

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P401658

Luminaire Tested: **ENV-SA1E-735-U-T2**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1E-735-U-T2
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6577 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

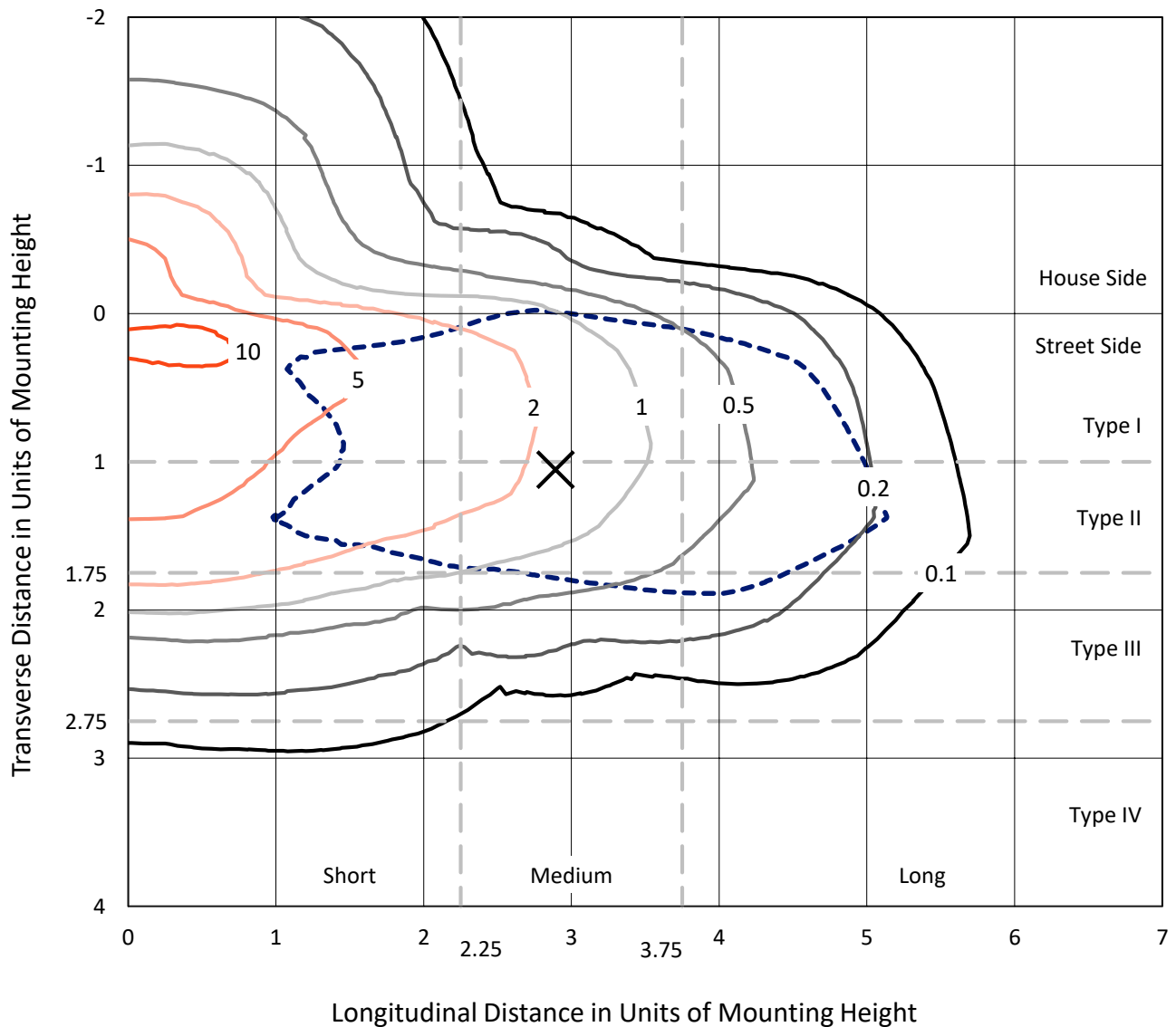
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

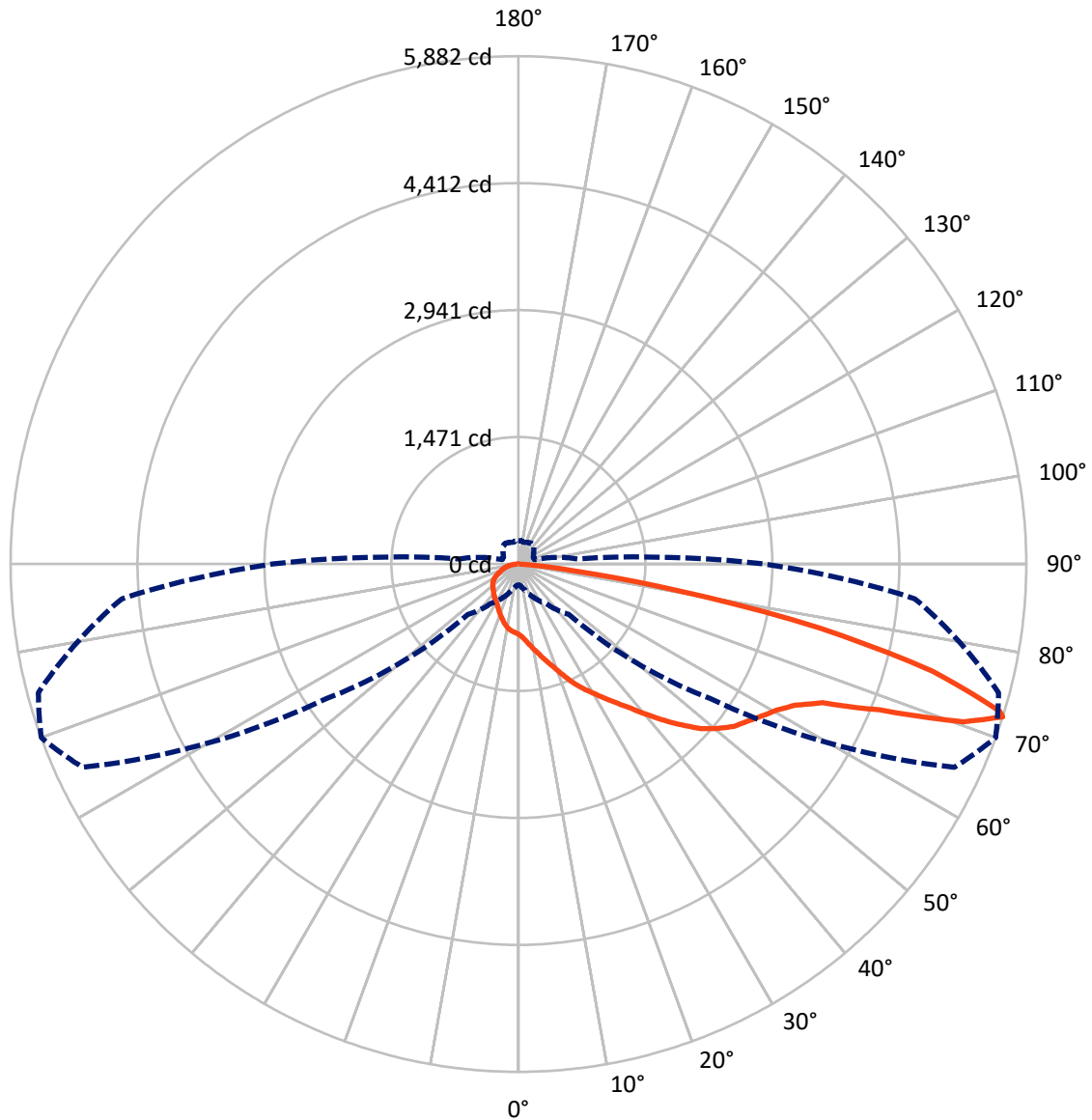
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1222.1	0.0	1222.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	5354.9	0.0	5354.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	6577.0	0.0	6577.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.2
10°-20°	262.7	4.0
20°-30°	465.1	7.1
30°-40°	691.5	10.5
40°-50°	1003.2	15.3
50°-60°	1370.6	20.8
60°-70°	1500.6	22.8
70°-80°	1067.4	16.2
80°-90°	134.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6577.0	100.0
0°-180°	6577.0	100.0



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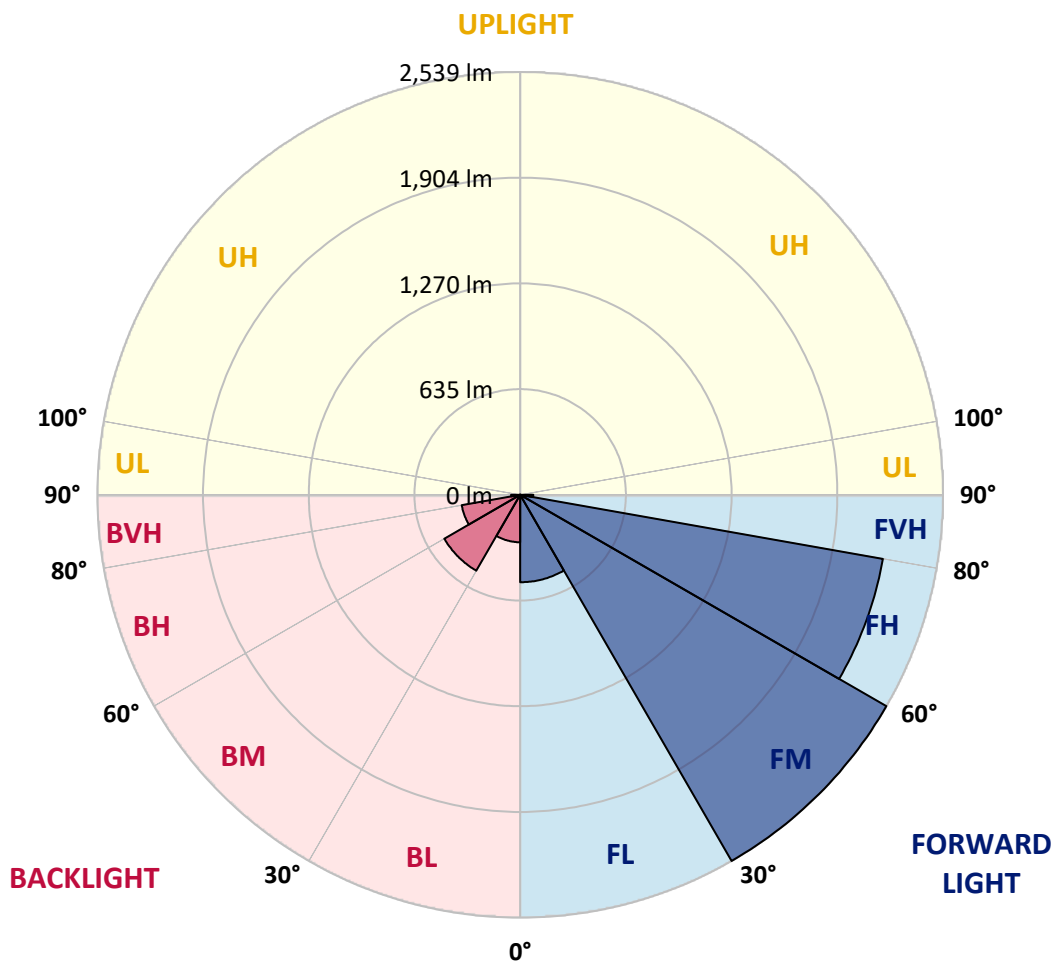
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.9	8.0			
FM	(30°-60°)	2539.1	38.6			
FH	(60°-80°)	2211.7	33.6			G2/5000
FVH	(80°-90°)	79.2	1.2			G1/100
BL	(0°-30°)	284.8	4.3	B1/500		
BM	(30°-60°)	526.2	8.0	B1/1000		
BH	(60°-80°)	356.3	5.4	B1/500		G1/500
BVH	(80°-90°)	54.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5
2.5°	905.6	900.9	901.9	893.4	888.7	877.5	865.2	852.1	845.5	840.8	824.8
5°	994.0	994.0	997.7	991.1	973.3	954.5	932.9	903.8	891.6	874.6	842.7
7.5°	1067.2	1069.1	1069.1	1067.2	1051.3	1030.6	1002.4	966.7	947.0	922.6	872.8
10°	1104.8	1109.5	1113.3	1116.1	1114.2	1102.0	1070.0	1033.4	1006.2	974.2	907.5
12.5°	1123.6	1125.5	1132.1	1146.1	1157.4	1166.8	1143.3	1100.1	1072.9	1034.3	945.1
15°	1144.3	1144.3	1150.8	1168.7	1190.3	1215.7	1212.8	1179.0	1149.9	1102.0	993.0
17.5°	1157.4	1161.2	1173.4	1192.2	1222.2	1264.5	1286.1	1267.3	1229.8	1179.0	1044.7
20°	1149.9	1152.7	1177.1	1213.8	1252.3	1306.8	1361.3	1361.3	1325.6	1267.3	1102.0
22.5°	1164.0	1168.7	1185.6	1220.4	1273.0	1343.4	1432.7	1463.7	1432.7	1368.8	1168.7
25°	1218.5	1216.6	1230.7	1244.8	1289.9	1377.3	1493.7	1573.6	1545.4	1475.0	1233.5
27.5°	1297.4	1297.4	1304.9	1304.0	1319.9	1405.4	1547.3	1670.4	1646.9	1562.3	1287.1
30°	1388.5	1390.4	1388.5	1387.6	1384.8	1444.0	1595.2	1756.8	1744.6	1661.0	1335.9
32.5°	1499.4	1504.1	1496.6	1477.8	1466.5	1499.4	1635.6	1853.6	1857.3	1758.7	1383.8
35°	1638.4	1645.9	1617.8	1590.5	1562.3	1577.4	1682.6	1944.7	1982.3	1869.5	1442.1
37.5°	1777.5	1789.7	1785.0	1711.7	1672.2	1671.3	1752.1	2058.4	2121.3	2014.2	1524.7
40°	1894.9	1905.2	1910.9	1844.2	1789.7	1787.8	1854.5	2176.7	2292.3	2180.5	1622.5
42.5°	1972.9	1982.3	1999.2	1959.7	1909.0	1932.5	1967.2	2294.2	2476.4	2383.4	1742.7
45°	2057.4	2064.9	2075.3	2052.7	2026.4	2094.1	2110.0	2424.8	2660.6	2601.4	1883.6
47.5°	2147.6	2155.1	2160.8	2143.9	2134.5	2229.3	2250.0	2558.2	2846.6	2826.8	2020.8
50°	2247.2	2250.0	2255.7	2247.2	2250.0	2352.4	2365.6	2675.6	2994.1	3061.7	2163.6
52.5°	2418.2	2421.9	2423.8	2383.4	2369.3	2430.4	2458.6	2800.5	3123.7	3257.1	2289.5
55°	2553.5	2566.6	2625.8	2599.5	2565.7	2485.8	2535.6	2901.1	3215.8	3439.4	2421.0
57.5°	2442.6	2472.7	2620.2	2744.2	2839.1	2648.3	2626.7	3004.4	3321.9	3596.3	2574.1
60°	2120.4	2164.5	2378.7	2637.1	2944.3	3021.3	2813.7	3133.1	3437.5	3759.7	2738.5
62.5°	1470.3	1515.4	1811.3	2223.7	2766.7	3234.6	3325.7	3361.4	3598.1	3927.0	2952.7
65°	704.6	750.6	994.9	1429.9	2185.2	3097.4	3922.3	3834.9	3868.7	4139.3	3268.4
67.5°	448.1	472.5	568.4	778.8	1271.1	2412.5	4136.5	4778.1	4509.4	4628.7	3896.9
70°	327.9	333.5	416.2	539.3	754.4	1409.2	3652.6	5680.9	5470.5	5457.3	4655.0
72°	242.4	251.8	315.7	430.3	558.0	823.9	2717.9	5571.0	5882.0	5757.0	4609.9
72.5°	228.3	235.8	291.2	406.8	527.0	723.4	2435.1	5443.2	5831.2	5765.5	4523.5
75°	166.3	171.9	199.2	289.4	407.7	419.0	1300.2	4177.8	4951.9	5504.3	4100.8
77.5°	114.6	118.4	132.5	177.6	279.0	283.7	551.5	2852.2	3573.7	4401.4	3153.8
80°	69.5	71.4	79.9	96.8	177.6	168.2	227.4	1490.9	1864.8	2392.8	1462.7
82.5°	29.1	30.1	34.8	38.5	75.2	79.9	92.1	486.6	617.2	747.8	421.8
85°	0.0	0.0	0.9	0.9	1.9	8.5	13.2	60.1	91.1	109.0	76.1
87.5°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	2.8	3.8	3.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5	814.5
2.5°	817.3	813.6	802.3	792.9	785.4	773.2	772.2	762.8	762.8	760.0	758.1
5°	830.5	818.3	795.7	775.1	760.0	742.2	733.7	723.4	716.8	713.1	714.0
7.5°	847.4	826.7	788.2	753.4	725.3	702.7	689.6	681.1	676.4	674.5	674.5
10°	870.9	838.9	776.0	723.4	687.7	670.8	664.2	663.3	664.2	665.1	666.1
12.5°	897.2	847.4	753.4	687.7	659.5	652.9	656.7	665.1	672.7	675.5	675.5
15°	924.4	853.0	722.4	654.8	637.9	644.5	657.6	673.6	685.8	693.3	695.2
17.5°	952.6	854.0	689.6	624.7	619.1	636.0	659.5	684.9	704.6	716.8	718.7
20°	982.7	852.1	651.0	597.5	600.3	628.5	661.4	696.1	722.4	738.4	740.3
22.5°	1015.6	844.6	613.5	571.2	584.3	621.0	659.5	699.9	728.1	746.9	750.6
25°	1047.5	829.5	575.9	547.7	573.1	613.5	650.1	684.9	712.1	730.0	734.7
27.5°	1064.4	797.6	540.2	529.9	564.6	602.2	628.5	652.0	667.0	678.3	683.0
30°	1067.2	752.5	511.1	517.6	555.2	586.2	601.3	605.0	602.2	606.0	601.3
32.5°	1061.6	703.7	487.6	508.2	540.2	563.7	567.4	556.2	539.3	515.8	516.7
35°	1057.8	650.1	468.8	495.1	520.5	535.5	528.9	511.1	479.1	450.9	449.1
37.5°	1064.4	601.3	452.8	478.2	495.1	501.7	492.3	468.8	440.6	416.2	413.4
40°	1083.2	565.6	437.8	459.4	467.9	472.5	461.3	440.6	429.3	411.5	408.7
42.5°	1119.8	541.1	423.7	438.7	442.5	447.2	435.9	421.8	432.2	428.4	428.4
45°	1170.6	529.9	411.5	419.0	422.8	430.3	423.7	411.5	422.8	401.2	397.4
47.5°	1236.3	533.6	403.0	399.3	410.5	423.7	416.2	401.2	397.4	358.9	352.3
50°	1305.9	553.3	394.6	383.3	397.4	415.2	405.8	382.4	359.8	340.1	336.3
52.5°	1387.6	586.2	387.1	365.5	382.4	405.8	399.3	373.9	350.4	336.3	333.5
55°	1477.8	618.2	377.7	344.8	362.6	403.0	401.2	368.3	337.3	330.7	328.8
57.5°	1579.2	644.5	366.4	321.3	342.9	394.6	392.7	355.1	333.5	327.9	326.9
60°	1706.1	675.5	346.7	294.1	323.2	378.6	376.7	348.5	325.1	320.4	318.5
62.5°	1878.9	732.8	312.8	268.7	302.5	350.4	361.7	335.4	312.8	311.9	311.9
65°	2163.6	843.6	278.1	247.1	279.0	323.2	342.0	320.4	301.6	306.3	306.3
67.5°	2701.9	993.0	242.4	226.4	256.5	296.9	325.1	305.3	289.4	298.7	298.7
70°	3117.1	937.6	214.2	206.7	233.9	273.4	303.4	289.4	274.3	290.3	288.4
72°	2843.8	686.7	195.4	190.7	215.1	253.7	284.7	274.3	258.4	271.5	267.7
72.5°	2730.1	623.8	189.8	186.0	209.5	249.9	280.9	270.6	253.7	266.8	261.2
75°	2381.5	526.1	165.3	163.5	186.0	224.5	256.5	250.8	233.9	241.4	235.8
77.5°	1971.0	443.4	139.0	142.8	158.8	200.1	231.1	225.5	209.5	208.6	207.6
80°	924.4	247.1	114.6	117.4	133.4	171.0	199.2	195.4	180.4	178.5	175.7
82.5°	267.7	118.4	88.3	90.2	107.1	140.0	171.0	169.1	157.8	155.0	148.4
85°	49.8	38.5	47.9	56.4	78.0	116.5	156.0	152.2	135.3	123.1	113.7
87.5°	2.8	7.5	16.0	27.2	49.8	87.4	125.9	123.1	108.0	93.0	93.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)