

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: P401297

Luminaire Tested: **ENV-SA1C-735-U-T2-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-735-U-T2-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3207 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 33.3
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

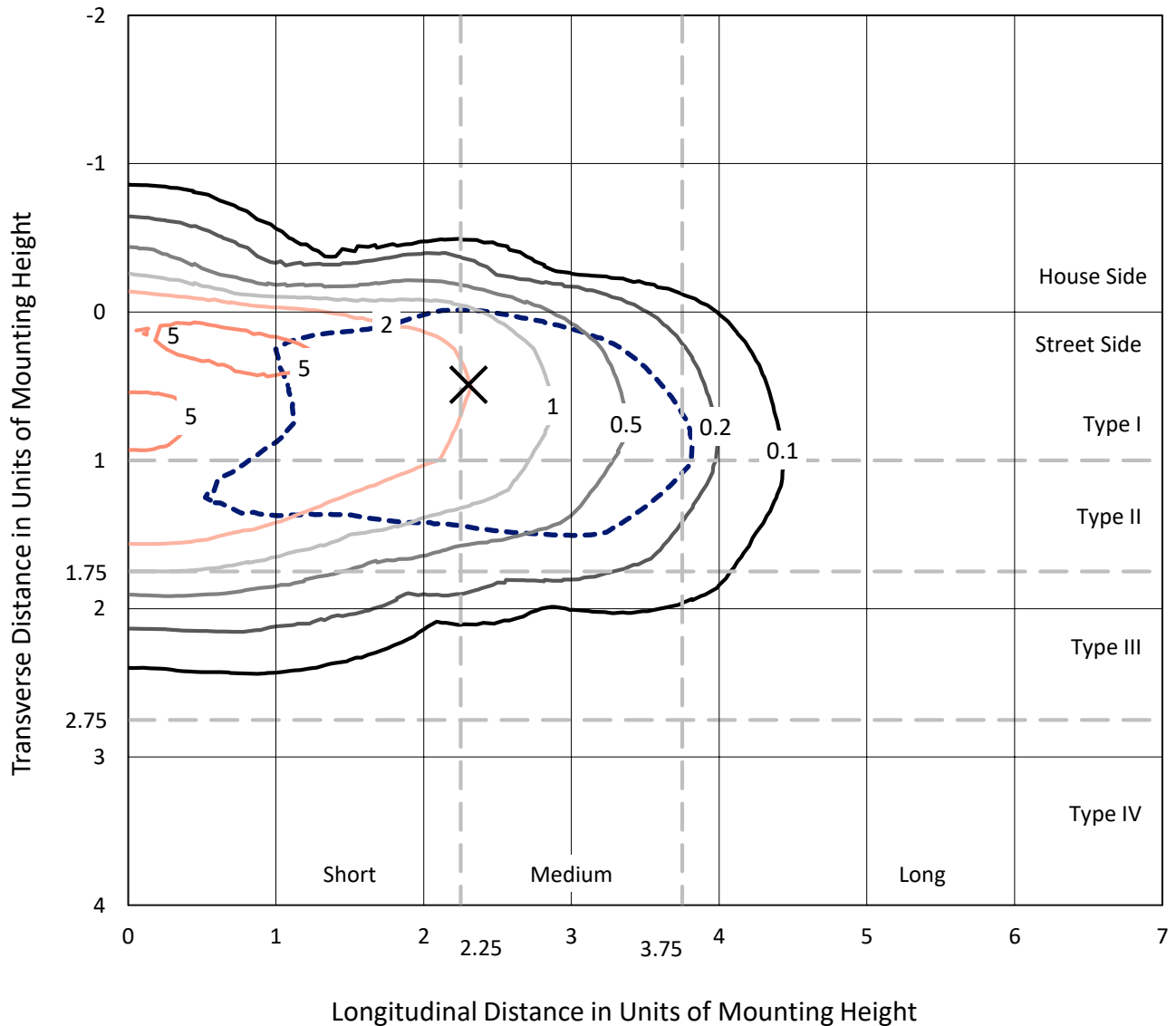


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

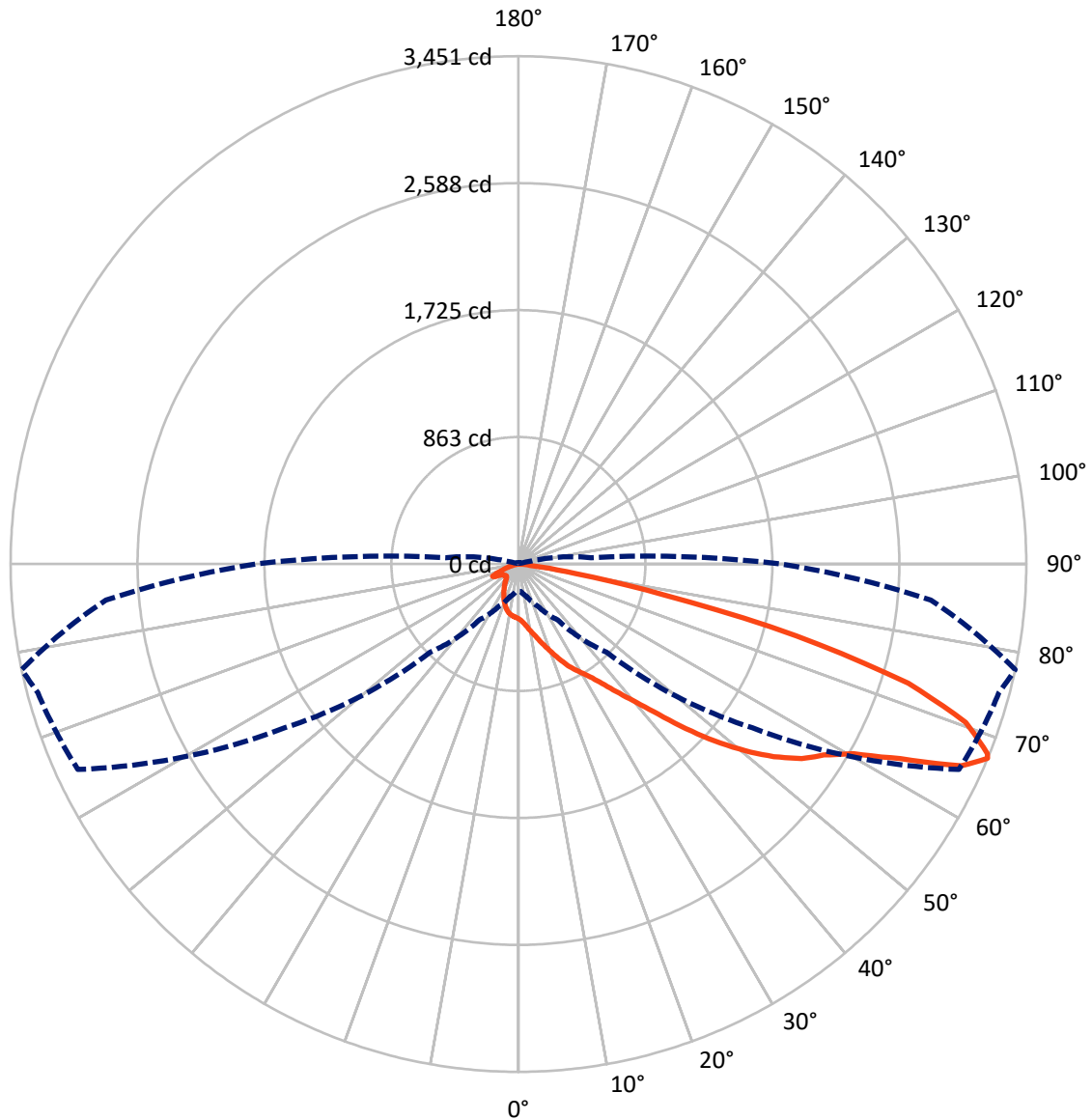


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	226.2	0.0	226.2
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	2980.7	0.0	2980.7
	% Fixture	92.9	0.0	92.9
Total	Lumens	3207.0	0.0	3207.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	1.1
10°-20°	102.8	3.2
20°-30°	181.6	5.7
30°-40°	320.3	10.0
40°-50°	550.4	17.2
50°-60°	828.6	25.8
60°-70°	815.4	25.4
70°-80°	356.3	11.1
80°-90°	15.8	0.5
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°	3207.0	100.0
0°-180°	3207.0	100.0



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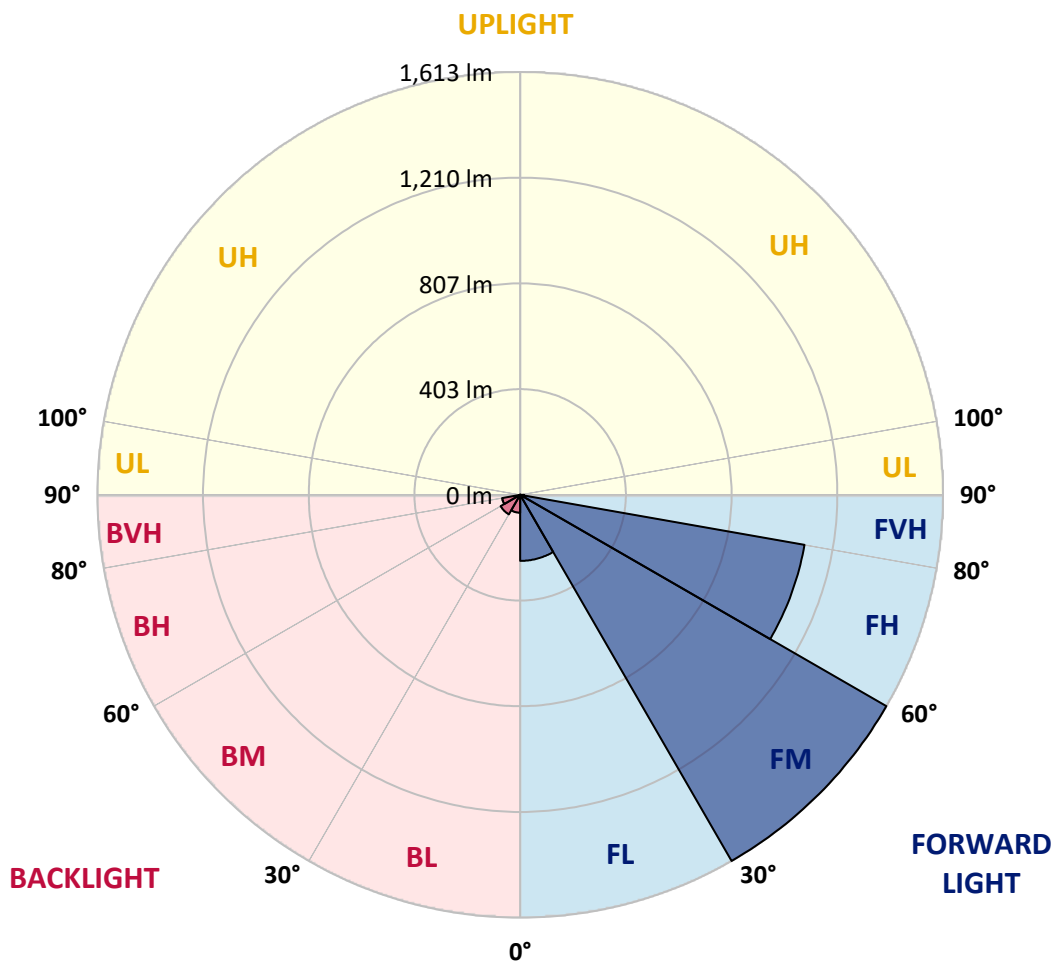
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.0	7.9			
FM (30°-60°)	1613.2	50.3			
FH (60°-80°)	1101.4	34.3			G1/1800
FVH (80°-90°)	14.2	0.4			G1/100
BL (0°-30°)	68.4	2.1	B0/110		
BM (30°-60°)	86.1	2.7	B0/220		
BH (60°-80°)	70.2	2.2	B0/110		G0/110
BVH (80°-90°)	1.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4
2.5°	427.2	429.0	426.6	424.8	419.9	413.9	407.9	398.9	389.2	385.6	379.6
5°	479.6	479.6	479.6	474.8	470.6	459.1	445.3	431.4	413.3	406.7	392.8
7.5°	507.3	507.9	509.7	509.7	507.3	499.5	484.4	468.8	441.6	432.6	410.3
10°	510.3	512.7	517.6	524.8	530.2	534.4	525.4	508.5	476.0	465.1	432.6
12.5°	502.5	503.7	511.5	524.8	542.3	559.7	560.3	550.1	513.9	498.9	459.7
15°	484.4	486.2	497.7	518.8	545.9	577.2	595.3	592.3	558.5	541.1	489.8
17.5°	455.5	457.3	471.8	503.1	542.9	588.7	627.2	642.3	602.5	585.6	520.6
20°	454.3	454.9	460.3	483.8	530.8	595.3	658.5	694.1	656.1	638.1	556.7
22.5°	531.4	526.6	514.5	499.5	520.0	593.5	686.9	748.9	722.4	694.1	598.3
25°	617.6	619.4	606.1	570.6	544.7	590.5	708.6	811.0	784.5	756.1	641.1
27.5°	707.9	704.9	693.5	661.0	617.6	612.1	724.2	861.0	844.1	809.8	679.0
30°	795.9	793.5	785.1	751.9	704.9	668.2	736.3	906.2	900.8	862.8	709.8
32.5°	896.5	900.8	889.9	846.5	789.3	744.1	762.2	953.8	969.4	923.0	741.7
35°	1013.4	1013.4	991.1	951.4	892.3	829.1	814.0	1006.2	1056.8	1006.8	792.3
37.5°	1109.8	1117.7	1104.4	1047.2	991.7	925.5	892.9	1070.7	1164.7	1114.0	860.4
40°	1185.7	1199.0	1199.6	1143.0	1091.7	1048.4	1003.2	1161.6	1300.2	1235.1	941.7
42.5°	1256.2	1258.6	1268.9	1236.3	1185.1	1173.7	1127.3	1269.5	1469.5	1393.0	1050.2
45°	1346.0	1350.8	1344.8	1320.7	1276.7	1291.8	1265.9	1406.3	1659.9	1595.4	1177.9
47.5°	1478.0	1489.4	1480.4	1437.0	1383.4	1411.7	1393.0	1542.4	1875.0	1796.7	1316.5
50°	1601.5	1610.5	1620.1	1606.3	1552.7	1525.6	1502.7	1686.4	2059.4	1993.1	1452.7
52.5°	1614.7	1623.2	1676.2	1725.0	1760.5	1689.4	1617.7	1832.2	2229.9	2174.5	1577.4
55°	1528.6	1534.0	1622.6	1719.0	1882.2	1906.3	1787.0	1976.2	2372.7	2334.7	1661.1
57.5°	1288.8	1311.7	1437.6	1585.2	1852.1	2035.3	2027.4	2143.7	2465.5	2448.0	1769.0
60°	846.5	871.8	1022.5	1246.0	1630.4	2000.9	2291.3	2395.0	2595.6	2614.9	1958.2
62.5°	438.6	468.2	600.7	798.9	1181.5	1742.5	2381.1	2807.7	2845.1	2910.7	2295.6
65°	250.6	256.7	322.9	468.2	731.4	1247.8	2273.3	3216.2	3173.4	3306.6	2726.4
67°	186.2	186.2	232.6	318.1	463.3	848.3	1938.9	3302.4	3380.1	3450.6	2813.1
67.5°	166.9	175.9	215.7	293.4	415.7	752.5	1814.2	3279.5	3393.3	3437.3	2783.0
70°	114.5	120.5	154.8	210.3	280.2	391.6	1189.4	2900.5	3269.2	3224.6	2522.1
72.5°	68.7	71.1	102.4	151.2	209.1	209.7	648.9	2201.6	2770.3	2769.7	2060.0
75°	42.8	45.2	60.3	101.2	146.4	131.3	300.0	1497.8	1989.5	1950.9	1380.3
77.5°	24.1	27.7	36.2	55.4	92.8	83.7	126.5	839.3	1074.9	1008.6	685.7
80°	9.6	11.4	20.5	26.5	52.4	50.0	51.8	295.2	435.0	392.2	229.6
82.5°	2.4	3.0	7.2	12.7	20.5	20.5	16.3	80.7	103.0	95.8	59.0
85°	0.0	0.0	0.6	0.6	0.6	1.2	4.2	9.0	10.8	12.7	9.6
87.5°	0.0	0.0	0.0	0.6	0.6	0.6	1.2	1.8	1.8	1.8	1.8
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°	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4	372.4
2.5°	374.8	370.5	362.1	353.1	344.0	336.8	330.8	322.3	321.1	321.1	321.1
5°	382.6	373.0	353.7	334.4	315.1	297.6	285.0	274.7	265.7	262.7	265.1
7.5°	394.0	376.6	342.8	309.1	279.0	254.3	236.2	221.7	215.1	211.5	208.5
10°	409.1	382.0	328.4	279.0	241.0	211.5	192.2	178.3	171.7	167.5	168.1
12.5°	425.4	386.2	310.3	246.4	204.3	177.1	160.9	149.4	138.6	131.9	133.8
15°	441.6	389.2	288.0	216.3	175.9	151.8	128.9	108.5	101.2	100.0	99.4
17.5°	459.7	388.6	263.3	188.0	151.8	118.1	95.2	92.8	92.2	92.2	91.6
20°	478.4	385.6	235.0	164.5	127.7	89.8	86.2	85.0	83.1	82.5	81.9
22.5°	498.9	380.2	209.1	144.0	95.2	81.9	77.1	73.5	70.5	68.7	69.3
25°	517.6	369.9	183.8	124.7	81.3	73.5	66.9	61.5	58.4	56.0	56.6
27.5°	530.2	351.9	162.1	100.6	74.7	65.1	57.2	51.8	47.6	45.8	45.8
30°	531.4	326.0	142.8	82.5	68.1	57.2	48.8	42.8	40.4	39.2	38.6
32.5°	530.2	299.4	128.3	75.9	62.1	50.0	41.6	37.4	34.9	33.7	33.7
35°	536.2	272.3	115.1	69.9	55.4	44.0	36.8	32.5	30.7	29.5	29.5
37.5°	554.3	253.7	101.2	63.9	49.4	38.6	33.1	29.5	27.7	26.5	26.5
40°	579.0	238.0	84.4	57.8	43.4	34.9	30.1	27.1	24.7	23.5	23.5
42.5°	622.4	232.0	70.5	51.8	38.0	31.3	27.7	24.1	21.7	20.5	20.5
45°	686.9	235.0	64.5	46.4	34.3	28.3	24.7	21.1	18.7	18.1	18.1
47.5°	758.0	247.6	60.3	41.6	31.3	26.5	22.3	18.7	16.3	15.7	15.7
50°	837.5	267.5	56.6	36.8	28.3	24.1	19.9	16.3	14.5	13.9	13.9
52.5°	913.4	292.8	53.0	33.1	26.5	21.7	17.5	14.5	13.3	12.7	12.7
55°	971.2	309.1	50.0	30.7	24.7	19.9	15.7	13.9	12.1	11.4	11.4
57.5°	1052.0	336.2	46.4	27.7	22.3	18.1	14.5	12.7	10.8	10.8	10.8
60°	1215.9	409.1	41.0	25.3	19.9	16.3	13.9	11.4	10.2	9.6	9.6
62.5°	1511.1	529.6	35.5	23.5	17.5	14.5	12.1	10.2	9.0	7.8	7.8
65°	1795.5	579.6	30.1	20.5	15.7	12.7	10.8	9.0	6.6	5.4	5.4
67°	1779.8	495.9	25.3	17.5	13.3	11.4	9.0	7.2	4.8	3.0	3.0
67.5°	1737.6	461.5	24.7	16.9	12.7	10.8	9.0	6.6	4.2	2.4	2.4
70°	1476.8	322.9	19.3	13.3	10.8	9.6	7.2	4.8	2.4	1.2	1.2
72.5°	1199.6	256.1	15.1	10.8	9.0	7.2	6.0	3.0	1.8	0.6	0.6
75°	848.3	157.3	13.3	9.6	7.2	5.4	4.8	3.0	1.8	1.2	0.6
77.5°	418.7	72.3	10.8	8.4	6.6	5.4	4.2	3.6	3.0	2.4	1.2
80°	122.9	23.5	7.2	6.0	6.0	5.4	4.8	4.2	3.6	3.0	1.8
82.5°	27.7	8.4	2.4	3.0	4.2	4.2	4.2	3.0	2.4	1.2	0.6
85°	3.6	1.8	1.8	1.8	2.4	2.4	1.8	1.2	1.2	0.0	0.0
87.5°	1.2	1.2	1.2	1.8	1.8	1.8	1.2	0.6	0.6	0.0	0.0
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)