

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: P401330

Luminaire Tested: **ENV-SA1C-740-U-T3-HSS**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1C-740-U-T3-HSS
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - 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

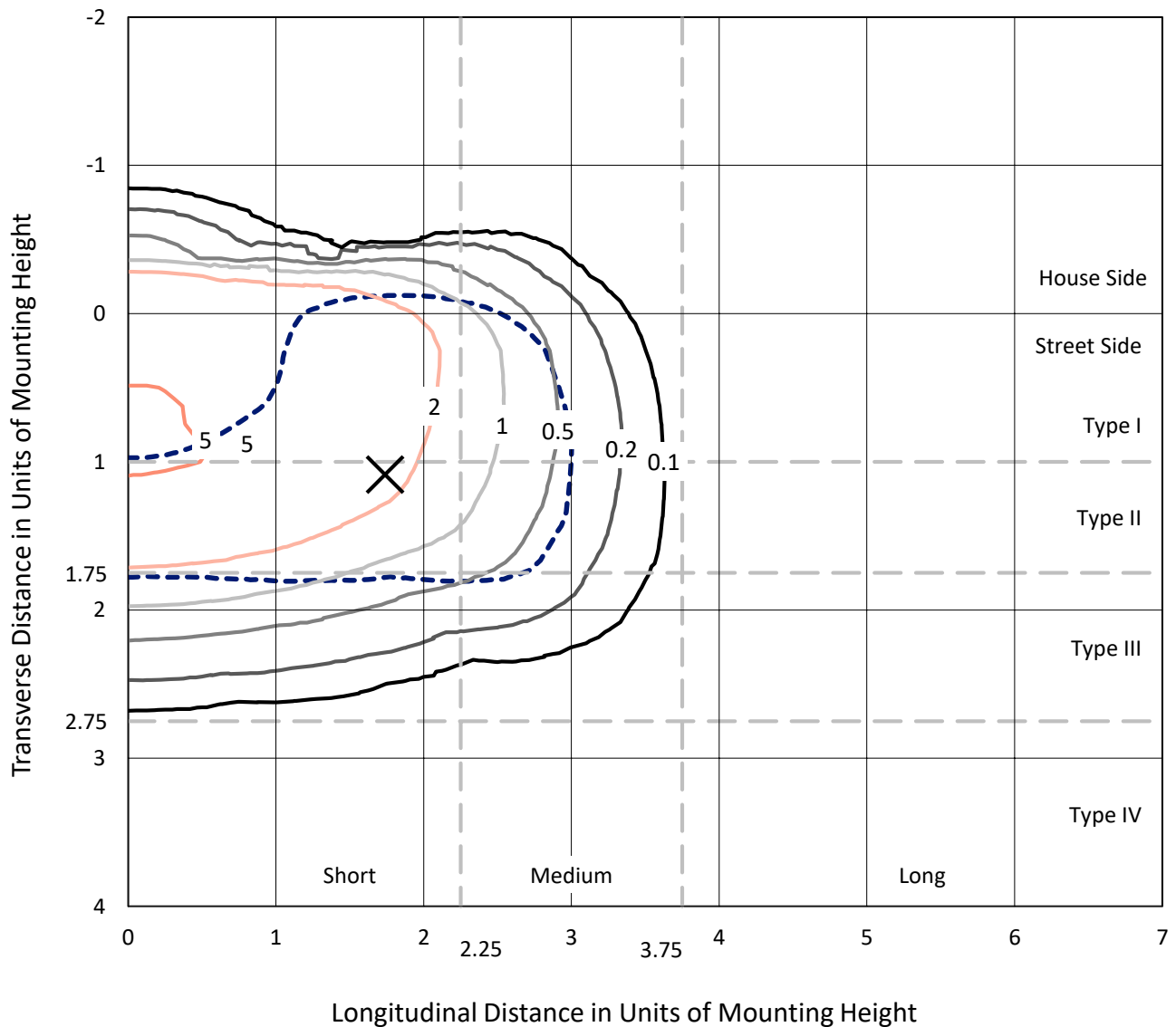


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

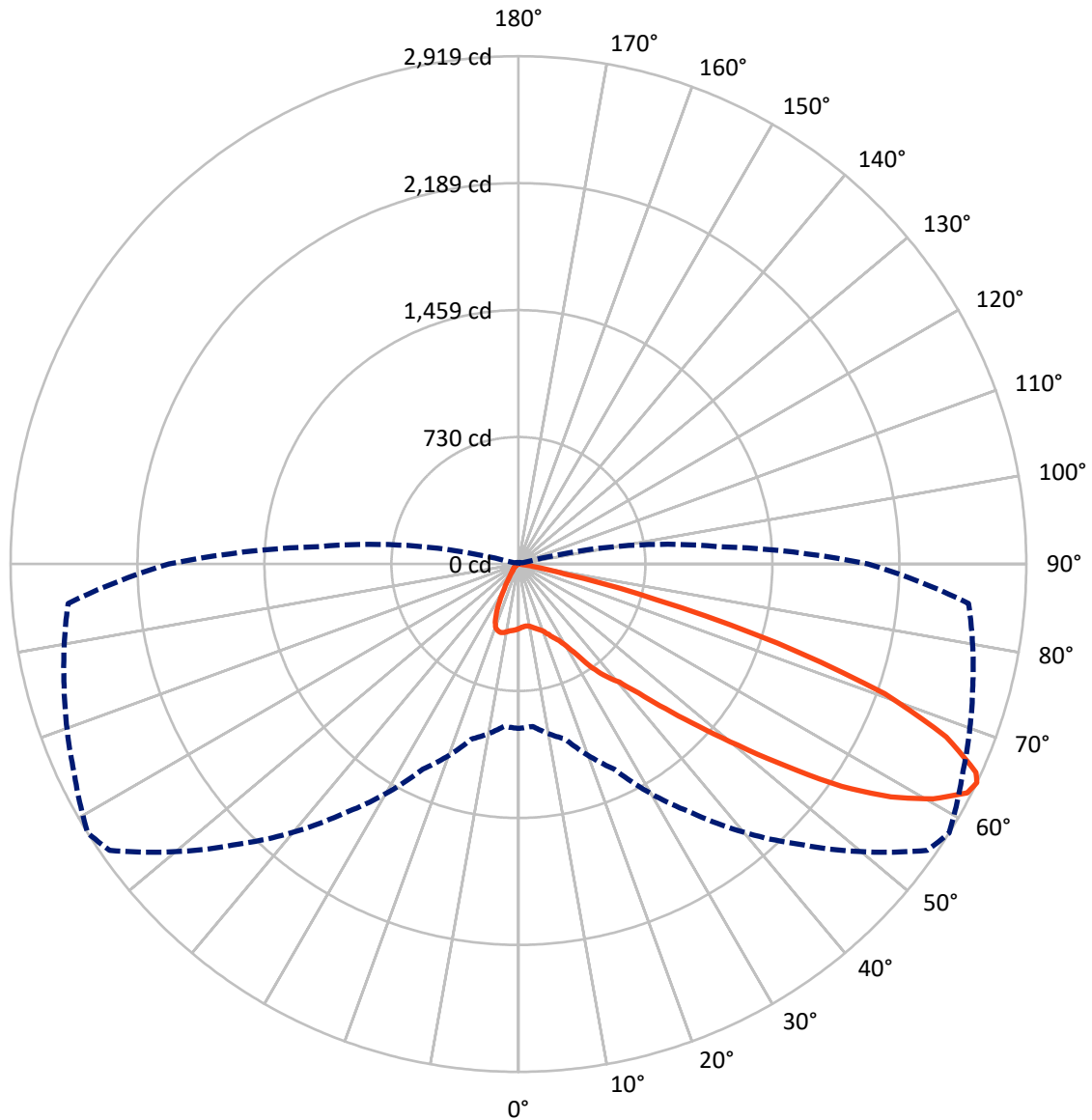


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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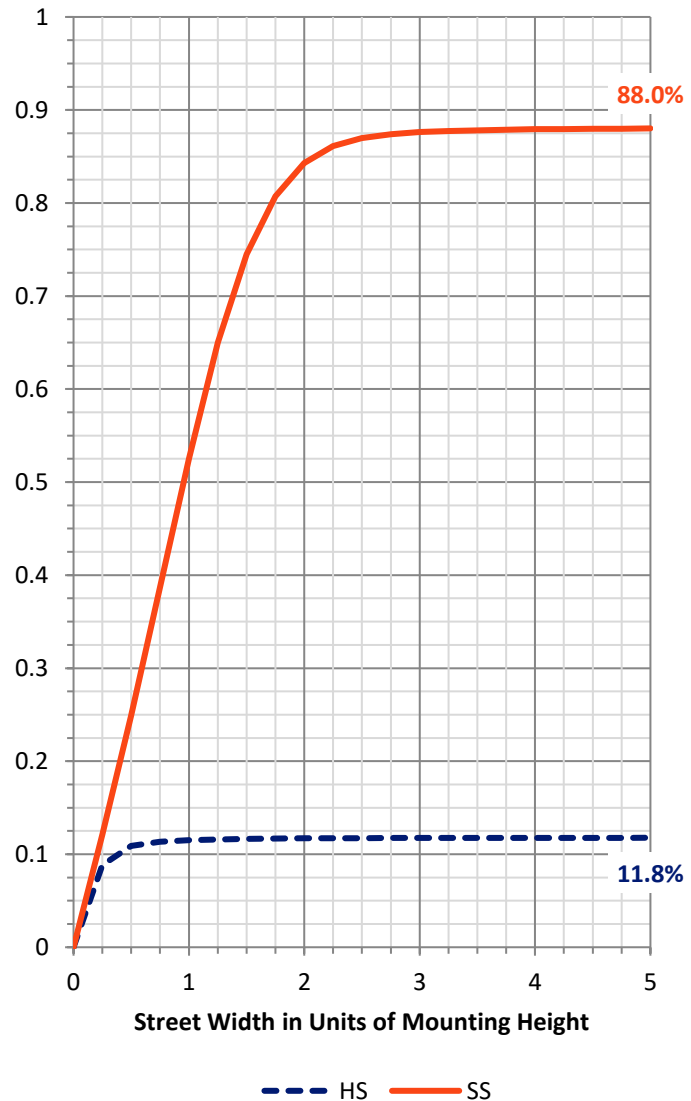
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	413.2	0.0	413.2
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	3052.8	0.0	3052.8
	% Fixture	88.1	0.0	88.1
Total	Lumens	3466.0	0.0	3466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	1.0
10°-20°	102.3	3.0
20°-30°	183.8	5.3
30°-40°	322.1	9.3
40°-50°	588.9	17.0
50°-60°	1007.5	29.1
60°-70°	977.4	28.2
70°-80°	242.1	7.0
80°-90°	6.9	0.2
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°	3466.0	100.0
0°-180°	3466.0	100.0



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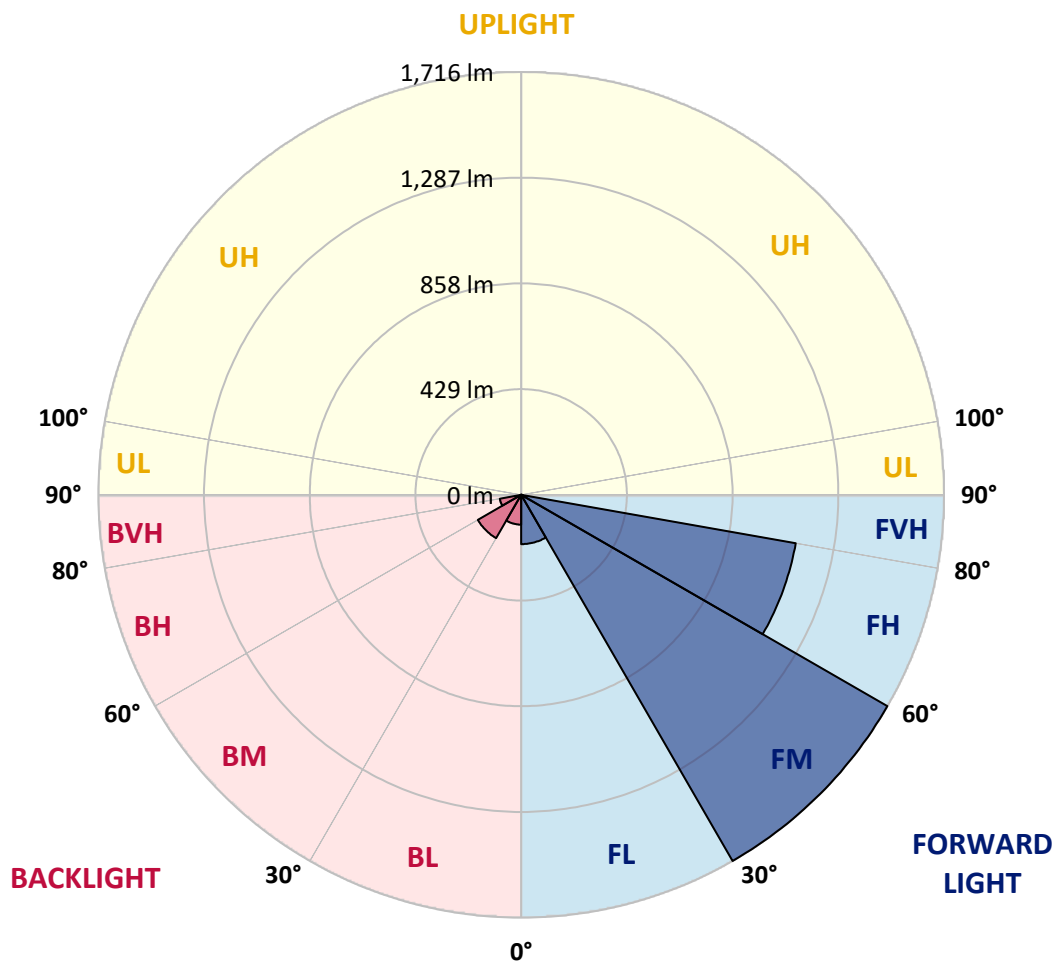
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.1	5.8			
FM	(30°-60°)	1715.6	49.5			
FH	(60°-80°)	1131.2	32.6			G1/1800
FVH	(80°-90°)	5.8	0.2			G0/10
BL	(0°-30°)	121.0	3.5	B1/500		
BM	(30°-60°)	202.9	5.9	B0/220		
BH	(60°-80°)	88.2	2.5	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	355.9	355.9	357.2	357.8	359.7	361.6	364.2	364.9	366.1	369.3	370.6
5°	336.6	337.3	338.6	341.8	346.3	351.4	357.8	359.7	364.9	371.3	375.8
7.5°	328.9	329.6	331.5	335.4	341.1	348.8	356.5	359.1	366.1	376.4	382.8
10°	327.7	327.7	330.2	336.0	343.1	352.7	361.0	364.2	373.8	386.0	396.3
12.5°	327.7	327.7	330.9	337.9	346.3	358.4	370.0	374.5	385.4	400.8	413.6
15°	333.4	334.7	336.6	341.1	350.7	364.2	380.2	385.4	398.8	417.4	433.5
17.5°	374.5	373.2	366.8	361.0	359.1	370.6	389.9	396.9	416.8	440.5	457.8
20°	454.0	453.3	441.8	413.6	388.6	382.2	404.6	412.9	441.8	473.2	486.0
22.5°	550.2	553.4	535.4	497.6	446.3	413.6	426.4	438.0	475.1	513.0	520.7
25°	645.7	649.6	632.9	585.4	522.6	465.5	456.5	466.8	509.1	547.0	543.8
27.5°	758.6	755.4	738.7	684.8	611.7	535.4	496.9	498.9	531.6	573.9	563.6
30°	841.3	836.8	820.8	784.2	715.6	628.4	554.7	548.9	558.5	605.3	594.4
32.5°	916.9	920.1	908.0	859.2	794.5	723.9	641.2	625.8	622.0	661.7	643.8
35°	992.0	991.3	986.8	943.9	880.4	813.7	744.5	733.6	732.3	770.7	722.0
37.5°	1081.7	1077.2	1068.9	1025.3	974.7	911.2	837.4	820.1	816.9	824.6	767.5
40°	1177.9	1183.7	1170.2	1124.7	1069.6	1022.1	918.9	892.6	870.8	893.2	856.7
42.5°	1320.9	1325.4	1301.7	1270.3	1199.1	1154.8	1050.3	1014.4	1004.1	1038.1	997.1
45°	1500.5	1492.1	1476.1	1454.3	1395.3	1328.0	1219.0	1185.0	1174.1	1232.4	1165.1
47.5°	1640.2	1639.0	1639.6	1635.1	1626.1	1545.3	1415.8	1392.7	1381.8	1465.8	1391.4
50°	1728.7	1733.9	1755.7	1811.4	1852.5	1818.5	1666.5	1638.3	1630.0	1717.2	1616.5
52.5°	1795.4	1807.6	1844.1	1954.4	2085.9	2097.4	1971.7	1932.0	1912.8	1937.1	1797.3
55°	1829.4	1835.2	1891.0	2053.8	2259.7	2342.4	2289.8	2256.5	2178.9	2132.7	2009.6
57.5°	1749.9	1740.9	1837.1	2044.2	2349.4	2539.9	2562.3	2524.5	2400.1	2364.2	2267.4
60°	1541.5	1537.6	1646.0	1894.8	2271.2	2586.0	2764.3	2740.6	2626.4	2541.2	2450.1
62.5°	1176.0	1182.4	1297.2	1550.5	1992.3	2453.3	2876.5	2895.7	2774.6	2647.6	2585.4
64°	944.5	936.8	1042.0	1299.8	1748.0	2276.3	2868.2	2918.8	2819.4	2703.4	2597.6
65°	793.2	776.5	877.2	1110.6	1541.5	2148.1	2809.2	2890.6	2822.6	2716.8	2553.3
67.5°	417.4	426.4	469.4	674.6	1040.7	1624.2	2529.6	2652.7	2680.3	2532.8	2225.0
70°	187.2	188.5	216.1	344.3	575.8	1053.5	2034.6	2234.0	2249.4	2080.8	1612.0
72.5°	62.2	62.8	95.5	137.9	241.7	488.0	1374.1	1555.6	1588.9	1349.1	874.6
75°	38.5	39.8	50.7	74.4	112.2	170.6	696.4	819.5	826.5	598.3	318.0
77.5°	24.4	25.6	30.8	44.2	61.6	64.8	228.3	276.4	312.9	215.4	98.7
80°	15.4	15.4	19.9	26.9	32.1	27.6	62.2	82.1	98.7	72.5	33.3
82.5°	5.8	5.8	10.3	14.7	13.5	9.6	16.7	21.8	37.8	35.9	16.0
85°	0.0	0.0	0.6	1.3	0.6	1.3	3.2	4.5	7.1	10.3	5.1
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	1.3	1.3	1.3	1.3	1.3
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°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	372.5	373.8	376.4	377.0	377.7	375.8	377.7	375.8	377.0	377.0	377.0
5°	378.3	380.2	382.2	382.8	382.2	377.7	379.0	375.8	375.1	375.1	375.1
7.5°	386.0	387.9	391.1	389.2	385.4	379.0	378.3	373.8	371.9	371.9	372.5
10°	400.1	402.0	403.3	399.5	391.8	382.2	375.1	365.5	361.0	359.1	359.1
12.5°	418.1	420.0	419.4	412.9	398.8	379.0	359.1	340.5	327.0	321.9	316.8
15°	437.3	439.9	438.6	425.1	398.2	362.9	324.5	280.9	253.9	236.6	233.4
17.5°	459.8	462.3	455.9	431.5	388.6	328.9	255.8	196.9	157.7	143.0	142.4
20°	487.3	486.0	470.7	432.2	371.3	266.1	171.2	123.1	106.4	102.6	102.0
22.5°	518.7	513.0	484.8	428.3	323.8	180.8	110.3	97.5	95.5	94.3	94.3
25°	536.7	526.4	489.9	417.4	249.4	115.4	93.6	91.1	88.5	85.9	85.3
27.5°	550.8	535.4	491.8	381.5	166.1	88.5	84.6	82.1	78.2	74.4	73.7
30°	576.5	553.4	495.0	318.7	102.0	75.7	73.7	69.3	63.5	59.6	58.4
32.5°	622.6	589.3	507.8	238.5	74.4	66.7	61.6	55.8	49.4	45.5	45.5
35°	672.0	623.3	514.3	157.1	64.8	58.4	50.7	43.6	37.8	34.6	34.0
37.5°	717.5	672.0	512.3	96.2	57.7	50.0	41.7	34.6	29.5	26.9	26.9
40°	810.5	757.3	486.0	66.0	50.7	42.3	34.0	26.9	23.7	21.8	21.8
42.5°	943.2	850.9	427.7	56.4	44.2	35.3	26.9	22.4	19.9	18.0	18.0
45°	1092.0	954.1	341.1	50.7	38.5	29.5	22.4	18.6	16.0	15.4	15.4
47.5°	1286.9	1079.2	250.7	45.5	33.3	25.0	18.6	15.4	14.1	13.5	13.5
50°	1457.5	1180.5	171.2	39.8	29.5	21.2	16.0	14.1	12.8	12.2	12.2
52.5°	1612.7	1251.0	112.9	34.6	26.3	17.3	14.7	12.8	12.2	11.5	11.5
55°	1795.4	1304.9	76.3	30.1	23.1	16.0	14.1	12.8	11.5	11.5	10.9
57.5°	1950.6	1336.9	54.5	25.6	20.5	14.7	13.5	12.2	10.9	10.3	10.3
60°	2041.0	1299.1	39.8	22.4	18.0	13.5	12.2	10.9	10.3	9.6	9.6
62.5°	2066.0	1226.0	30.8	19.2	15.4	12.2	10.9	9.6	9.0	8.3	8.3
64°	2008.3	1147.8	26.3	16.7	13.5	10.9	10.3	9.0	7.7	6.4	6.4
65°	1926.9	1075.3	23.7	15.4	12.2	10.3	9.6	8.3	6.4	5.1	5.1
67.5°	1605.6	857.3	19.2	12.8	9.6	9.0	7.7	6.4	4.5	3.2	3.2
70°	1140.1	599.5	14.7	10.3	8.3	8.3	7.1	5.1	2.6	1.3	1.3
72.5°	603.4	311.6	12.2	8.3	6.4	6.4	5.8	3.2	1.9	1.3	0.6
75°	211.0	102.6	10.3	7.1	5.8	4.5	3.8	2.6	1.9	1.3	0.6
77.5°	64.1	34.0	9.0	7.1	5.1	3.8	4.5	3.8	3.8	2.6	1.9
80°	20.5	12.2	5.1	4.5	5.1	5.1	4.5	3.8	4.5	3.2	2.6
82.5°	7.7	4.5	1.9	2.6	2.6	3.2	3.2	2.6	1.9	0.6	0.0
85°	2.6	1.9	1.3	1.9	1.9	1.9	1.3	1.3	0.6	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.0	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)