

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: McGRAW-EDISON

Report Number: P594134

Luminaire Tested: **ISC-PA1C-730-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1C-730-U-T4W-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4703 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

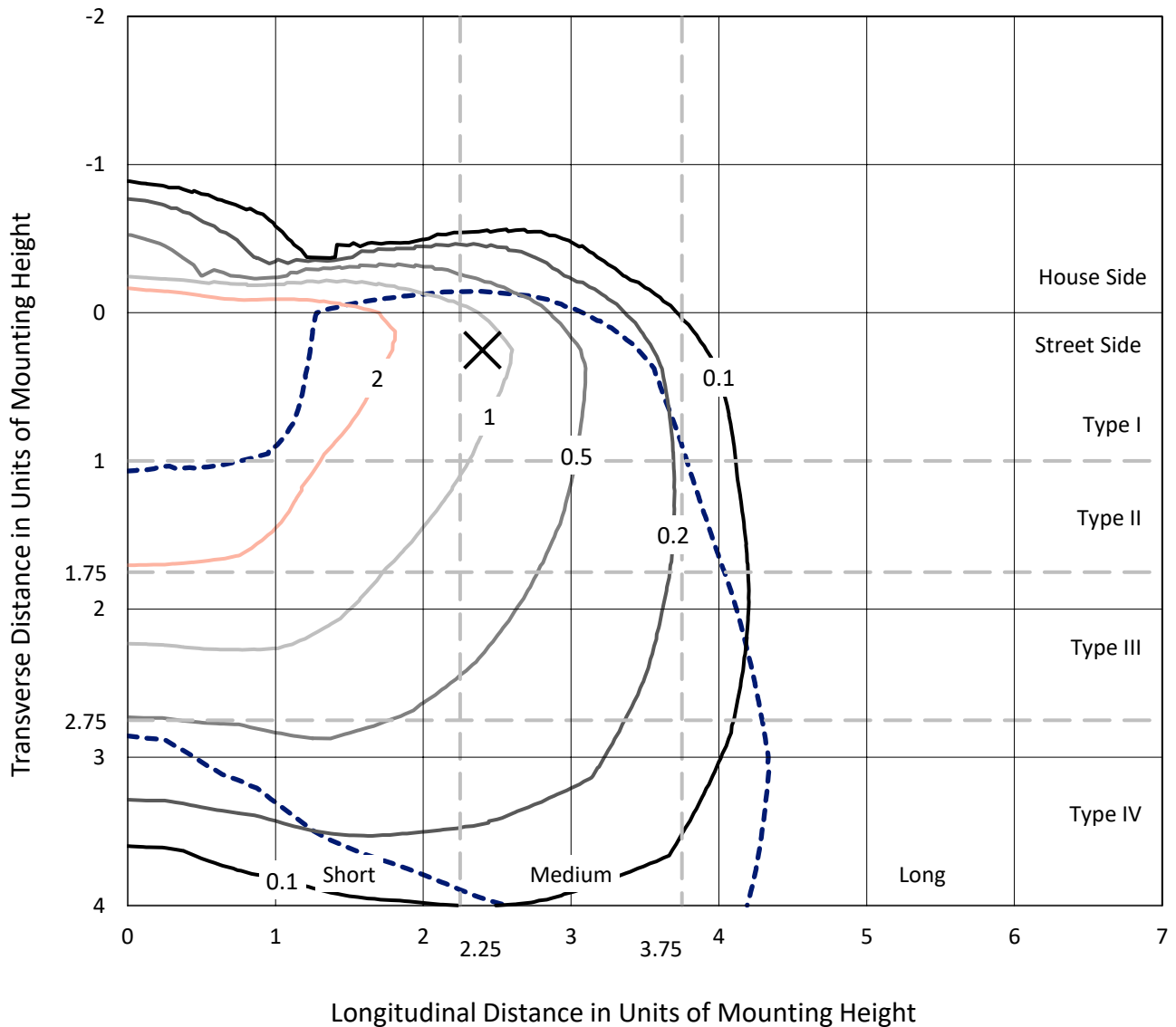
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

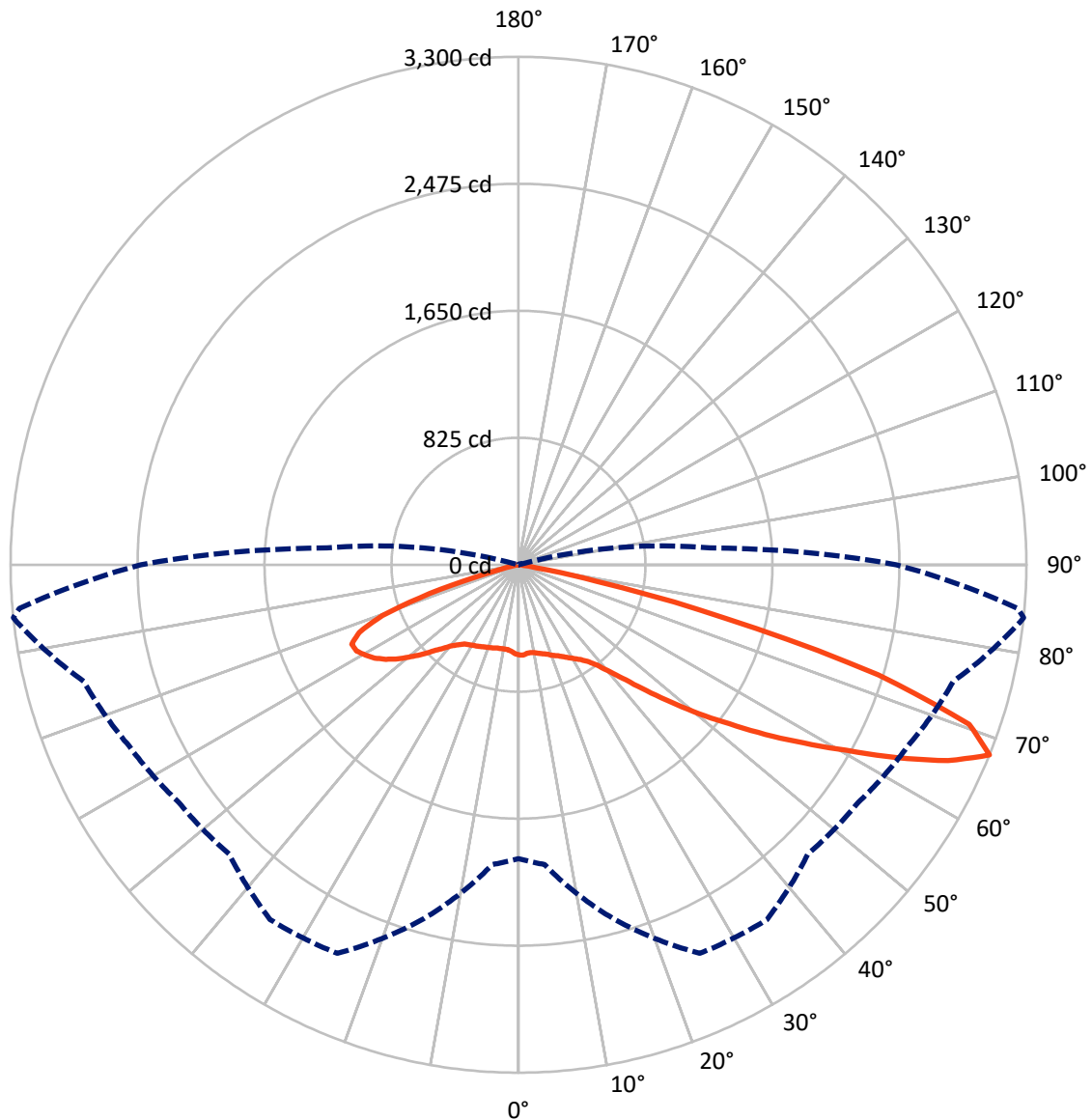
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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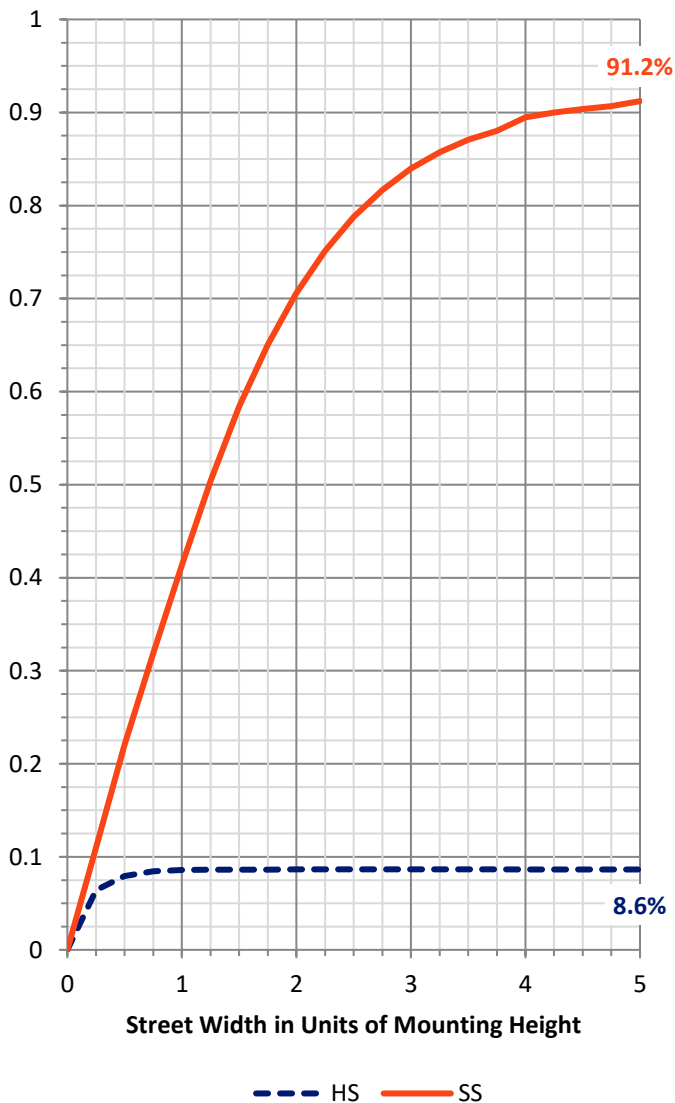
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	409.5	0.0	409.5
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	4293.5	0.0	4293.5
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	4703.0	0.0	4703.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.5	1.1
10°-20°	137.4	2.9
20°-30°	220.1	4.7
30°-40°	316.7	6.7
40°-50°	543.6	11.6
50°-60°	949.8	20.2
60°-70°	1360.2	28.9
70°-80°	1022.3	21.7
80°-90°	100.3	2.1
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°	4703.0	100.0
0°-180°	4703.0	100.0

**Coefficient of Utilization**



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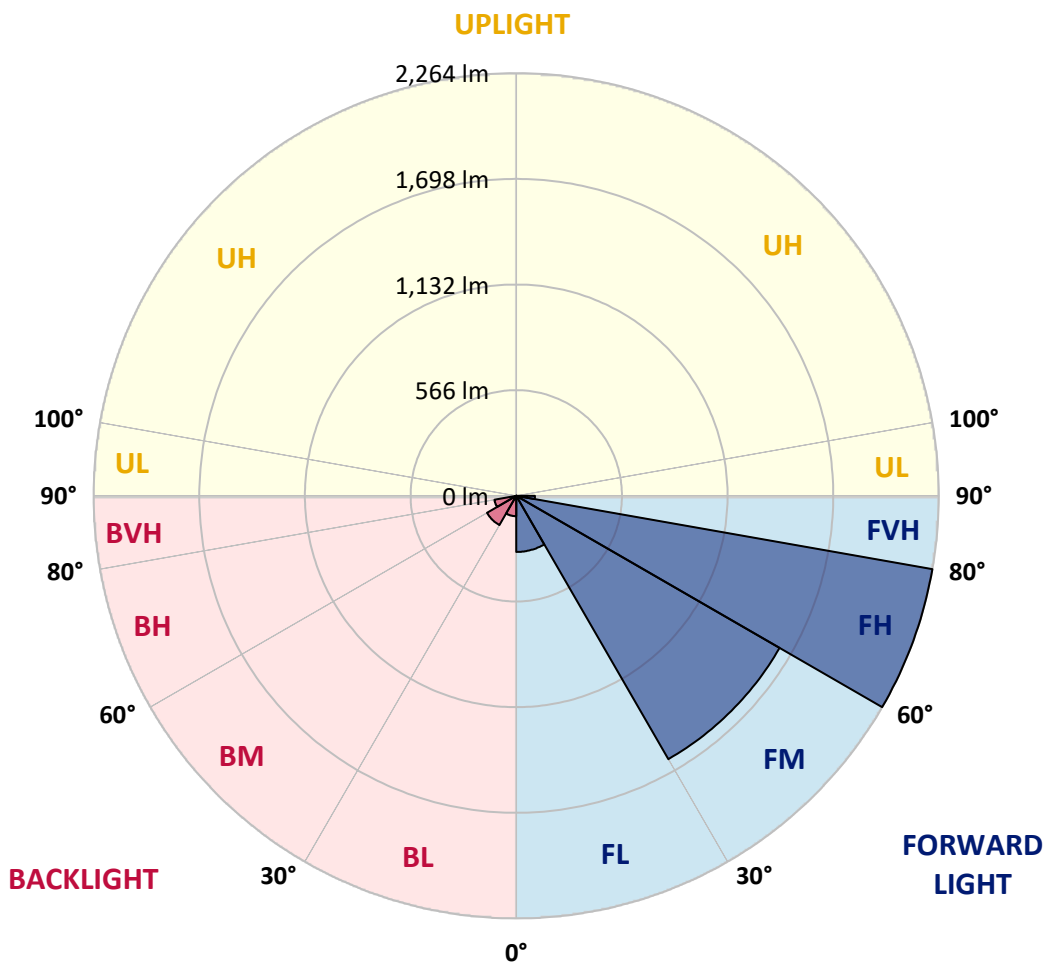
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.7	6.4			
FM	(30°-60°)	1629.1	34.6			
FH	(60°-80°)	2263.8	48.1			G2/5000
FVH	(80°-90°)	100.0	2.1			G2/225
BL	(0°-30°)	109.4	2.3	B0/110		
BM	(30°-60°)	181.1	3.9	B0/220		
BH	(60°-80°)	118.7	2.5	B1/500		G1/500
BVH	(80°-90°)	0.3	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-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	619.3	622.5	624.0	616.1	616.1	609.8	600.2	597.1	592.3	587.5	585.9
5°	651.0	655.8	654.2	644.7	639.9	627.2	614.5	601.8	589.1	578.0	578.0
7.5°	687.6	689.2	684.4	668.5	659.0	641.5	622.5	608.2	592.3	576.4	573.2
10°	719.3	717.7	711.4	695.5	678.0	655.8	635.2	619.3	600.2	581.2	579.6
12.5°	741.6	743.1	735.2	713.0	695.5	670.1	649.5	633.6	611.3	590.7	585.9
15°	760.6	765.4	755.8	733.6	708.2	686.0	670.1	649.5	624.0	600.2	597.1
17.5°	778.1	779.7	771.7	746.3	722.5	703.4	686.0	666.9	641.5	611.3	608.2
20°	787.6	792.4	787.6	755.8	733.6	719.3	705.0	686.0	657.4	628.8	625.6
22.5°	794.0	798.7	797.1	762.2	743.1	732.0	719.3	701.9	674.9	641.5	638.3
25°	797.1	800.3	803.5	768.5	752.7	747.9	736.8	720.9	695.5	660.6	657.4
27.5°	801.9	805.1	808.2	776.5	770.1	765.4	762.2	749.5	719.3	682.8	678.0
30°	809.8	814.6	817.8	790.8	790.8	795.5	795.5	778.1	744.7	706.6	703.4
32.5°	819.4	820.9	827.3	805.1	813.0	824.1	820.9	803.5	768.5	733.6	728.8
35°	844.8	844.8	855.9	827.3	836.8	846.4	849.5	836.8	805.1	770.1	768.5
37.5°	906.7	906.7	916.2	870.2	868.6	878.1	889.2	889.2	857.5	825.7	822.5
40°	1046.4	1046.4	1046.4	940.0	922.6	933.7	951.2	960.7	933.7	911.5	911.5
42.5°	1279.9	1281.4	1257.6	1068.7	994.0	1013.1	1032.1	1052.8	1038.5	1022.6	1019.4
45°	1521.2	1513.3	1510.1	1257.6	1121.1	1111.5	1135.4	1170.3	1175.1	1165.5	1171.9
47.5°	1686.4	1694.3	1699.1	1492.6	1298.9	1233.8	1256.0	1305.3	1333.8	1332.3	1341.8
50°	1846.7	1851.5	1856.3	1751.5	1533.9	1387.8	1402.1	1468.8	1508.5	1521.2	1527.6
52.5°	1986.5	1973.8	1994.4	1980.1	1783.2	1564.1	1564.1	1640.3	1711.8	1716.5	1714.9
55°	2027.8	2035.7	2097.6	2140.5	2038.9	1780.0	1748.3	1829.3	1905.5	1945.2	1945.2
57.5°	2119.9	2127.8	2202.4	2299.3	2224.7	1992.8	1945.2	2024.6	2107.2	2183.4	2194.5
60°	2240.5	2242.1	2321.5	2469.2	2366.0	2185.0	2145.3	2235.8	2318.3	2448.6	2485.1
62.5°	2305.6	2312.0	2421.6	2615.3	2543.8	2353.3	2343.7	2426.3	2532.7	2761.4	2794.7
65°	2205.6	2246.9	2485.1	2702.6	2688.3	2510.5	2543.8	2610.5	2732.8	3067.8	3099.6
67.5°	1908.7	1954.7	2380.3	2785.2	2813.8	2658.2	2693.1	2789.9	2924.9	3299.7	3255.2
70°	1757.8	1795.9	2126.2	2831.2	2918.6	2823.3	2839.2	2929.7	2969.4	3105.9	3058.3
72.5°	1332.3	1372.0	1799.1	2674.0	3009.1	2996.4	2956.7	2882.0	2647.0	2443.8	2327.9
75°	589.1	635.2	1197.3	2089.7	2785.2	3094.8	2885.2	2467.6	1900.7	1387.8	1286.2
77.5°	260.4	287.4	463.7	1160.8	2092.9	2678.8	2281.8	1645.1	954.3	516.1	479.5
80°	84.2	87.3	146.1	406.5	1070.2	1773.7	1397.4	790.8	293.8	120.7	112.7
82.5°	33.3	36.5	69.9	171.5	443.0	705.0	686.0	285.8	85.7	31.8	31.8
85°	9.5	11.1	34.9	90.5	157.2	198.5	242.9	95.3	46.0	9.5	9.5
87.5°	3.2	3.2	12.7	28.6	30.2	20.6	46.0	36.5	28.6	3.2	3.2
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°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	582.8	579.6	571.6	565.3	562.1	557.4	551.0	547.8	547.8	546.2	541.5
5°	571.6	566.9	552.6	543.1	535.1	517.7	505.0	489.1	473.2	468.4	473.2
7.5°	566.9	557.4	538.3	519.2	485.9	439.8	409.7	376.3	365.2	350.9	352.5
10°	568.5	557.4	530.4	487.5	422.4	354.1	306.5	262.0	239.8	228.7	230.2
12.5°	573.2	560.5	522.4	444.6	350.9	268.4	195.3	160.4	154.0	154.0	154.0
15°	582.8	563.7	509.7	393.8	274.7	177.8	138.1	135.0	139.7	144.5	146.1
17.5°	592.3	573.2	490.7	341.4	200.1	133.4	128.6	128.6	133.4	138.1	139.7
20°	603.4	582.8	463.7	285.8	142.9	125.4	123.9	122.3	125.4	130.2	131.8
22.5°	620.9	592.3	431.9	220.7	123.9	120.7	117.5	115.9	117.5	122.3	123.9
25°	636.8	605.0	398.6	163.6	115.9	112.7	111.2	109.6	109.6	112.7	114.3
27.5°	655.8	619.3	362.0	122.3	106.4	104.8	103.2	101.6	100.0	103.2	104.8
30°	679.6	632.0	322.3	103.2	96.9	95.3	93.7	92.1	90.5	92.1	93.7
32.5°	709.8	649.5	276.3	93.7	88.9	84.2	82.6	82.6	81.0	81.0	82.6
35°	749.5	668.5	227.1	87.3	81.0	76.2	71.5	69.9	69.9	69.9	71.5
37.5°	808.2	703.4	179.4	81.0	74.6	66.7	61.9	57.2	57.2	57.2	57.2
40°	889.2	741.6	139.7	76.2	69.9	58.8	52.4	46.0	42.9	41.3	42.9
42.5°	1014.7	798.7	108.0	69.9	66.7	52.4	42.9	34.9	28.6	27.0	28.6
45°	1152.8	860.6	85.7	65.1	60.3	44.5	33.3	23.8	17.5	15.9	17.5
47.5°	1327.5	938.5	73.0	58.8	52.4	36.5	23.8	12.7	7.9	9.5	9.5
50°	1495.8	1014.7	66.7	54.0	46.0	30.2	14.3	6.4	3.2	4.8	4.8
52.5°	1681.6	1095.7	61.9	47.6	39.7	22.2	7.9	1.6	0.0	1.6	1.6
55°	1869.0	1168.7	57.2	42.9	31.8	15.9	3.2	0.0	0.0	0.0	1.6
57.5°	2072.2	1230.6	52.4	36.5	23.8	9.5	1.6	0.0	0.0	0.0	0.0
60°	2242.1	1278.3	47.6	31.8	15.9	4.8	0.0	0.0	0.0	0.0	0.0
62.5°	2397.7	1321.1	36.5	23.8	9.5	3.2	0.0	0.0	0.0	0.0	0.0
65°	2501.0	1330.7	25.4	15.9	6.4	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	2454.9	1248.1	15.9	11.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0
70°	2158.0	1048.0	11.1	6.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1510.1	676.4	9.5	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
75°	797.1	244.5	6.4	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	282.6	54.0	3.2	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0
80°	61.9	11.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)