

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: P594215

Luminaire Tested: **ISC-PA1D-730-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594215  
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-PA1D-730-U-T4W-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3000K, 800mA 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: 5859 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

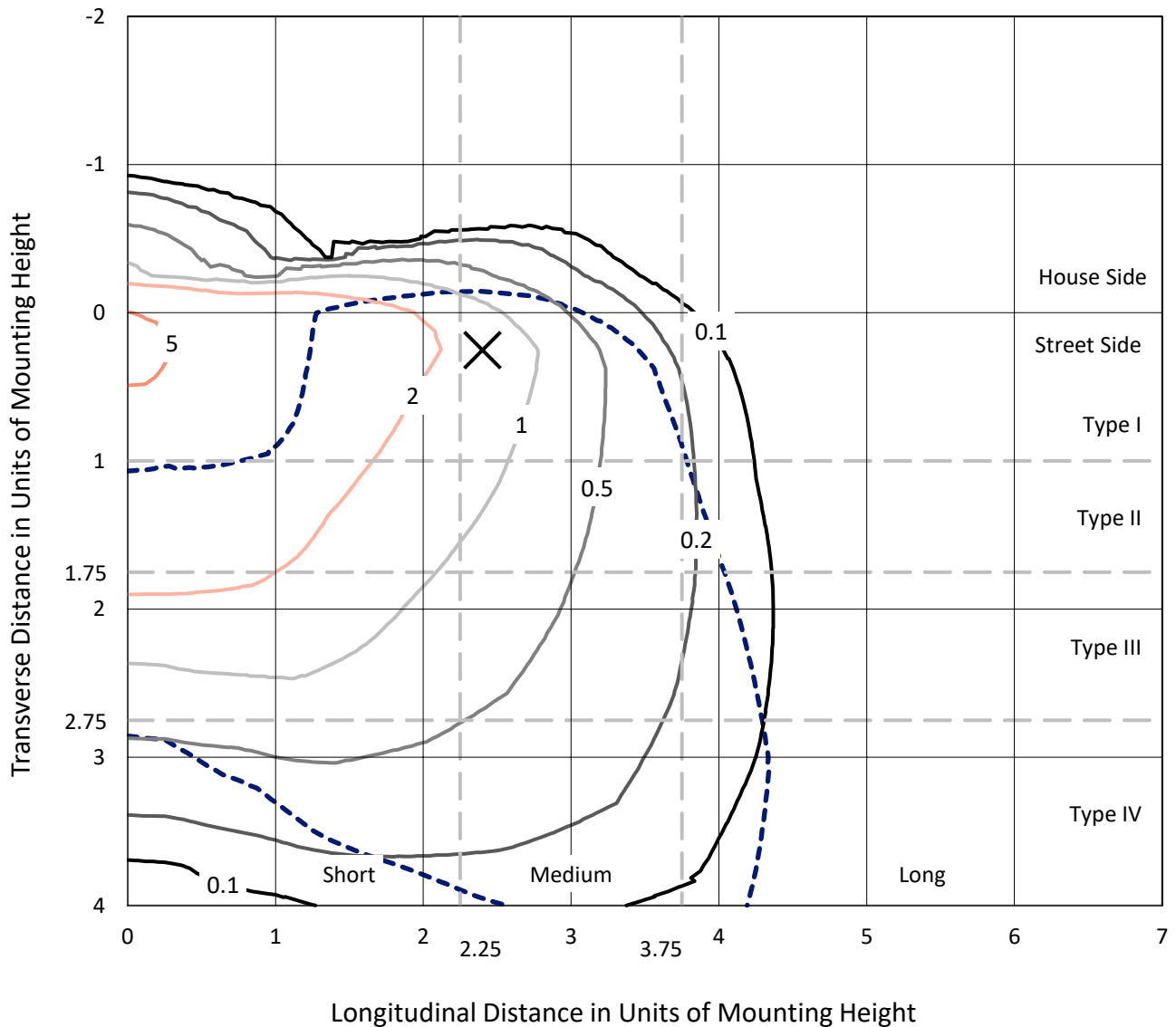
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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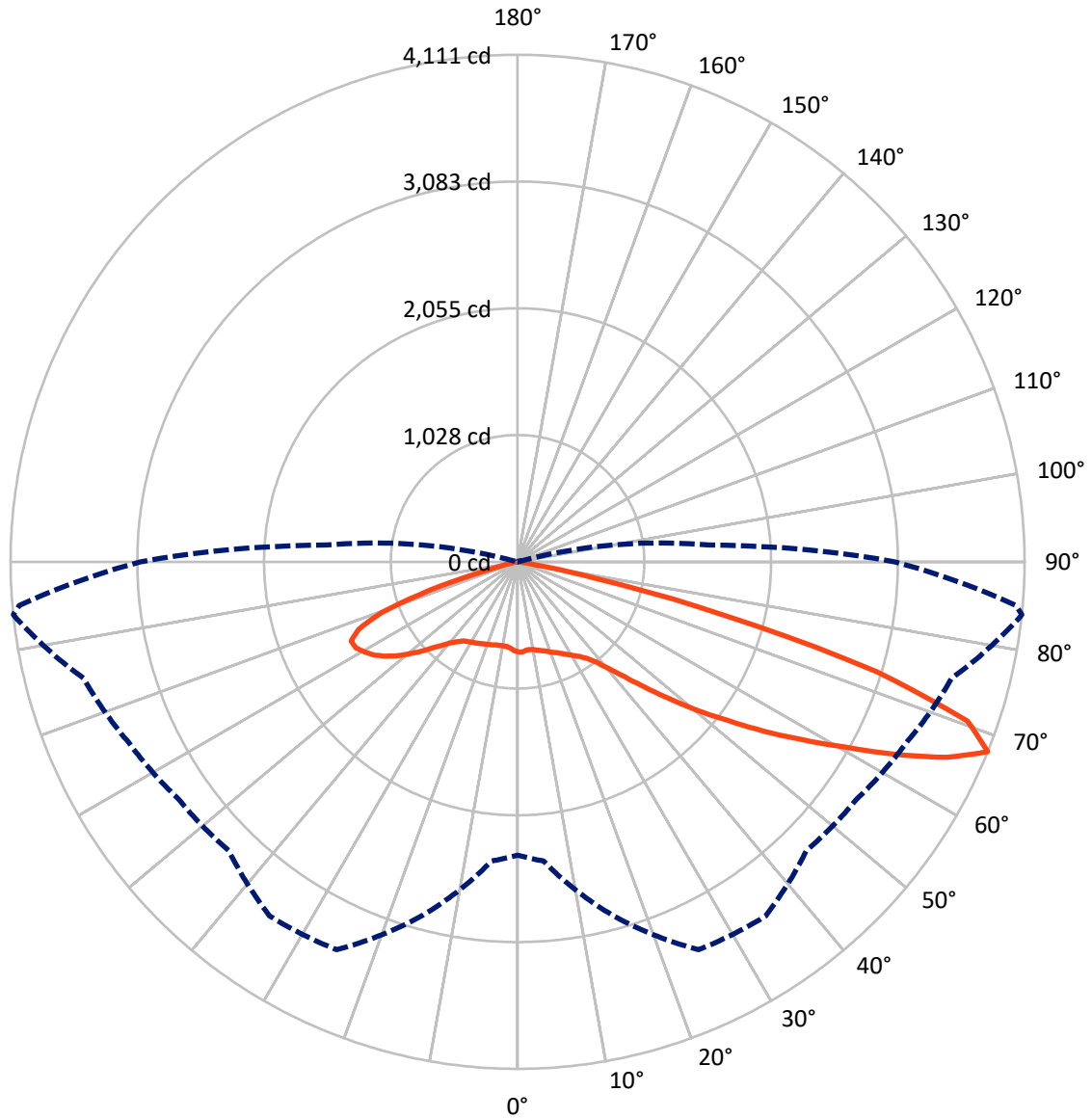
### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd



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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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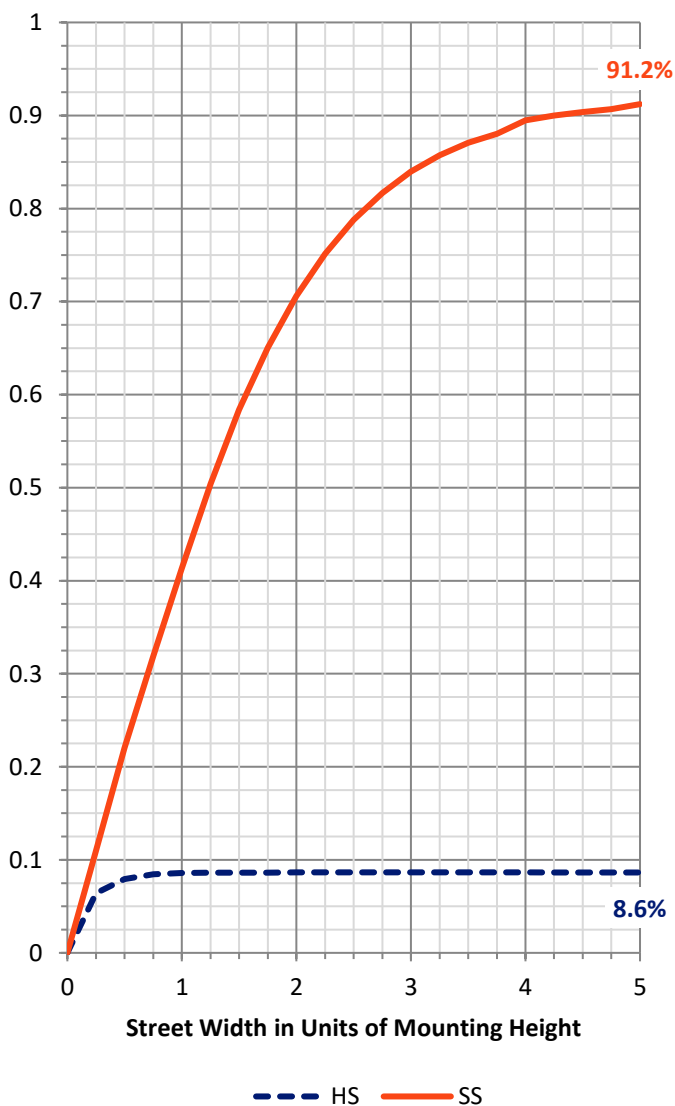
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	510.1	0.0	510.1
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	5348.9	0.0	5348.9
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	5859.0	0.0	5859.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	1.1
10°-20°	171.2	2.9
20°-30°	274.2	4.7
30°-40°	394.6	6.7
40°-50°	677.3	11.6
50°-60°	1183.3	20.2
60°-70°	1694.5	28.9
70°-80°	1273.6	21.7
80°-90°	125.0	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°	5859.0	100.0
0°-180°	5859.0	100.0

**Coefficient of Utilization**

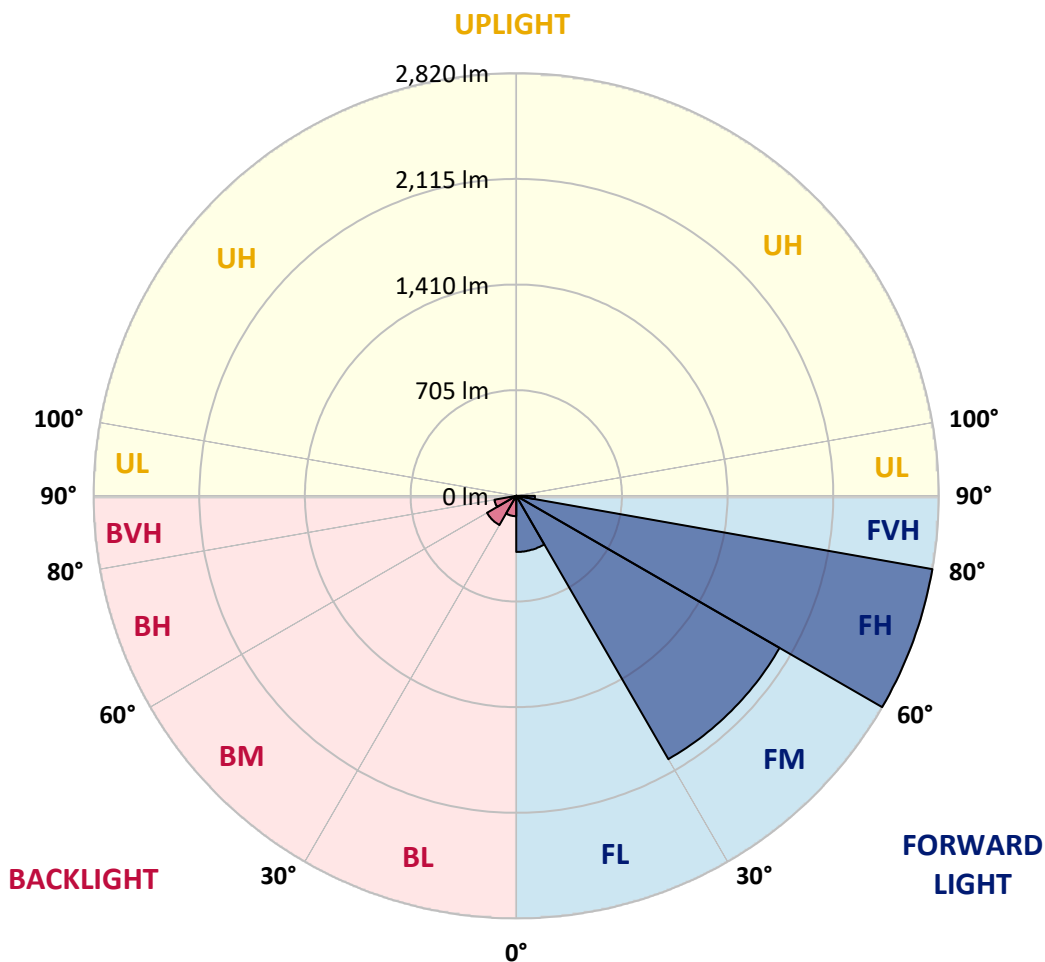


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.6	6.4			
FM (30°-60°)	2029.5	34.6			
FH (60°-80°)	2820.2	48.1			G2/5000
FVH (80°-90°)	124.6	2.1			G2/225
BL (0°-30°)	136.2	2.3	B1/500		
BM (30°-60°)	225.6	3.9	B1/1000		
BH (60°-80°)	147.9	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	771.5	775.5	777.4	767.5	767.5	759.6	747.8	743.8	737.9	731.9	730.0
5°	811.1	817.0	815.0	803.2	797.2	781.4	765.6	749.7	733.9	720.1	720.1
7.5°	856.6	858.5	852.6	832.8	821.0	799.2	775.5	757.7	737.9	718.1	714.1
10°	896.1	894.2	886.2	866.5	844.7	817.0	791.3	771.5	747.8	724.0	722.0
12.5°	923.8	925.8	915.9	888.2	866.5	834.8	809.1	789.3	761.6	735.9	730.0
15°	947.6	953.5	941.6	913.9	882.3	854.6	834.8	809.1	777.4	747.8	743.8
17.5°	969.3	971.3	961.4	929.8	900.1	876.3	854.6	830.8	799.2	761.6	757.7
20°	981.2	987.1	981.2	941.6	913.9	896.1	878.3	854.6	819.0	783.4	779.4
22.5°	989.1	995.0	993.1	949.5	925.8	912.0	896.1	874.4	840.7	799.2	795.2
25°	993.1	997.0	1001.0	957.5	937.7	931.7	917.9	898.1	866.5	822.9	819.0
27.5°	999.0	1003.0	1006.9	967.3	959.4	953.5	949.5	933.7	896.1	850.6	844.7
30°	1008.9	1014.8	1018.8	985.2	985.2	991.1	991.1	969.3	927.8	880.3	876.3
32.5°	1020.8	1022.7	1030.6	1003.0	1012.8	1026.7	1022.7	1001.0	957.5	913.9	908.0
35°	1052.4	1052.4	1066.3	1030.6	1042.5	1054.4	1058.3	1042.5	1003.0	959.4	957.5
37.5°	1129.6	1129.6	1141.4	1084.1	1082.1	1094.0	1107.8	1107.8	1068.2	1028.7	1024.7
40°	1303.6	1303.6	1303.6	1171.1	1149.3	1163.2	1184.9	1196.8	1163.2	1135.5	1135.5
42.5°	1594.4	1596.4	1566.7	1331.3	1238.4	1262.1	1285.8	1311.6	1293.8	1274.0	1270.0
45°	1895.1	1885.2	1881.3	1566.7	1396.6	1384.7	1414.4	1457.9	1463.9	1452.0	1459.9
47.5°	2100.9	2110.8	2116.7	1859.5	1618.2	1537.1	1564.8	1626.1	1661.7	1659.7	1671.6
50°	2300.7	2306.6	2312.5	2182.0	1911.0	1729.0	1746.8	1829.8	1879.3	1895.1	1903.0
52.5°	2474.7	2458.9	2484.6	2466.8	2221.5	1948.5	1948.5	2043.5	2132.5	2138.4	2136.5
55°	2526.2	2536.1	2613.2	2666.6	2540.0	2217.6	2178.0	2278.9	2373.9	2423.3	2423.3
57.5°	2640.9	2650.8	2743.8	2864.5	2771.5	2482.7	2423.3	2522.2	2625.1	2720.0	2733.9
60°	2791.3	2793.2	2892.1	3076.1	2947.5	2722.0	2672.6	2785.3	2888.2	3050.4	3095.9
62.5°	2872.4	2880.3	3016.8	3258.1	3169.1	2931.7	2919.8	3022.7	3155.3	3440.1	3481.7
65°	2747.7	2799.2	3095.9	3366.9	3349.1	3127.6	3169.1	3252.2	3404.5	3821.9	3861.5
67.5°	2377.8	2435.2	2965.3	3469.8	3505.4	3311.5	3355.1	3475.7	3643.9	4110.7	4055.3
70°	2189.9	2237.4	2648.8	3527.2	3636.0	3517.3	3537.0	3649.8	3699.3	3869.4	3810.0
72.5°	1659.7	1709.2	2241.3	3331.3	3748.7	3732.9	3683.4	3590.5	3297.7	3044.5	2900.1
75°	733.9	791.3	1491.6	2603.3	3469.8	3855.5	3594.4	3074.1	2367.9	1729.0	1602.4
77.5°	324.4	358.1	577.6	1446.1	2607.3	3337.2	2842.7	2049.4	1188.9	642.9	597.4
80°	104.8	108.8	182.0	506.4	1333.3	2209.7	1740.8	985.2	366.0	150.3	140.5
82.5°	41.5	45.5	87.0	213.6	551.9	878.3	854.6	356.1	106.8	39.6	39.6
85°	11.9	13.8	43.5	112.8	195.8	247.3	302.7	118.7	57.4	11.9	11.9
87.5°	4.0	4.0	15.8	35.6	37.6	25.7	57.4	45.5	35.6	4.0	4.0
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°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	726.0	722.0	712.2	704.2	700.3	694.4	686.4	682.5	682.5	680.5	674.6
5°	712.2	706.2	688.4	676.5	666.7	644.9	629.1	609.3	589.5	583.6	589.5
7.5°	706.2	694.4	670.6	646.9	605.3	548.0	510.4	468.8	455.0	437.2	439.2
10°	708.2	694.4	660.7	607.3	526.2	441.1	381.8	326.4	298.7	284.9	286.8
12.5°	714.1	698.3	650.8	553.9	437.2	334.3	243.3	199.8	191.9	191.9	191.9
15°	726.0	702.3	635.0	490.6	342.2	221.6	172.1	168.1	174.1	180.0	182.0
17.5°	737.9	714.1	611.3	425.3	249.3	166.2	160.2	160.2	166.2	172.1	174.1
20°	751.7	726.0	577.6	356.1	178.0	156.3	154.3	152.3	156.3	162.2	164.2
22.5°	773.5	737.9	538.1	275.0	154.3	150.3	146.4	144.4	146.4	152.3	154.3
25°	793.3	753.7	496.5	203.8	144.4	140.5	138.5	136.5	136.5	140.5	142.4
27.5°	817.0	771.5	451.0	152.3	132.5	130.6	128.6	126.6	124.6	128.6	130.6
30°	846.7	787.3	401.6	128.6	120.7	118.7	116.7	114.7	112.8	114.7	116.7
32.5°	884.3	809.1	344.2	116.7	110.8	104.8	102.9	102.9	100.9	100.9	102.9
35°	933.7	832.8	282.9	108.8	100.9	95.0	89.0	87.0	87.0	87.0	89.0
37.5°	1006.9	876.3	223.5	100.9	93.0	83.1	77.2	71.2	71.2	71.2	71.2
40°	1107.8	923.8	174.1	95.0	87.0	73.2	65.3	57.4	53.4	51.4	53.4
42.5°	1264.1	995.0	134.5	87.0	83.1	65.3	53.4	43.5	35.6	33.6	35.6
45°	1436.2	1072.2	106.8	81.1	75.2	55.4	41.5	29.7	21.8	19.8	21.8
47.5°	1653.8	1169.1	91.0	73.2	65.3	45.5	29.7	15.8	9.9	11.9	11.9
50°	1863.5	1264.1	83.1	67.3	57.4	37.6	17.8	7.9	4.0	5.9	5.9
52.5°	2094.9	1365.0	77.2	59.3	49.5	27.7	9.9	2.0	0.0	2.0	2.0
55°	2328.4	1456.0	71.2	53.4	39.6	19.8	4.0	0.0	0.0	0.0	2.0
57.5°	2581.6	1533.1	65.3	45.5	29.7	11.9	2.0	0.0	0.0	0.0	0.0
60°	2793.2	1592.5	59.3	39.6	19.8	5.9	0.0	0.0	0.0	0.0	0.0
62.5°	2987.1	1645.9	45.5	29.7	11.9	4.0	0.0	0.0	0.0	0.0	0.0
65°	3115.7	1657.7	31.7	19.8	7.9	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	3058.3	1554.9	19.8	13.8	4.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2688.4	1305.6	13.8	7.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1881.3	842.7	11.9	5.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	993.1	304.6	7.9	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	352.1	67.3	4.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	77.2	13.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)