

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: P594638

Luminaire Tested: **ISS-PA1C-735-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594638  
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: ISS-PA1C-735-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 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: 4811 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

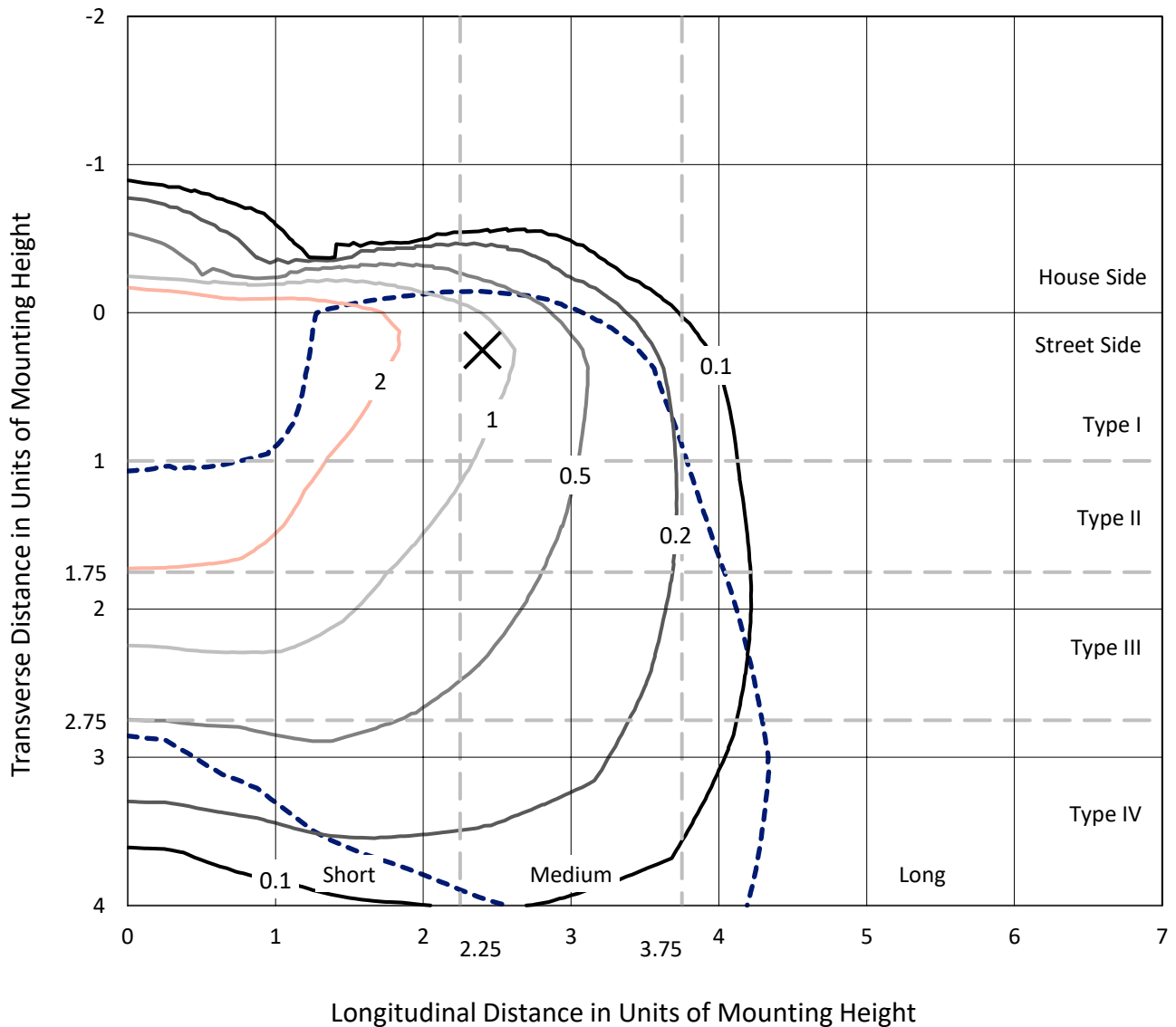
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

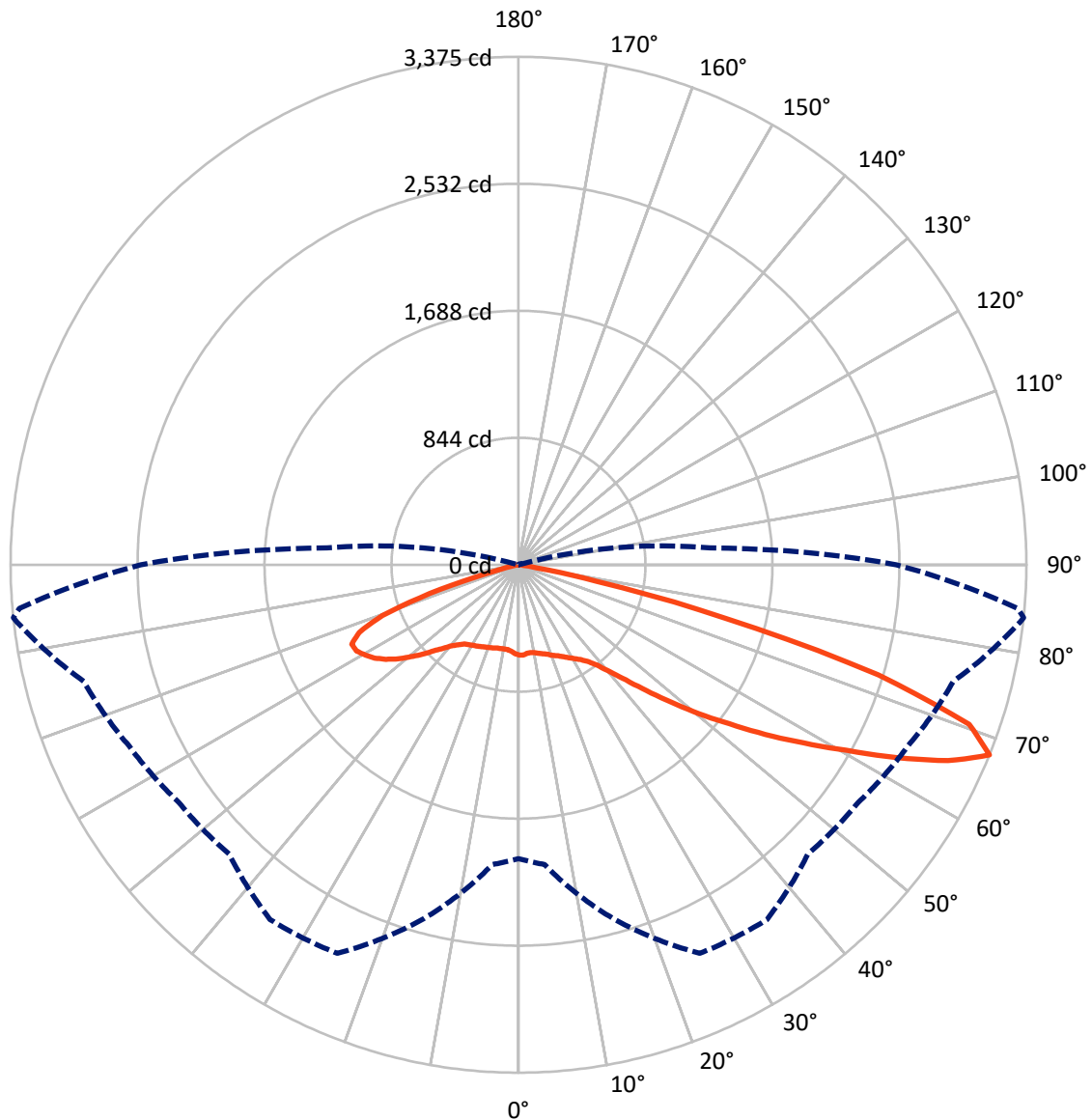
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.9 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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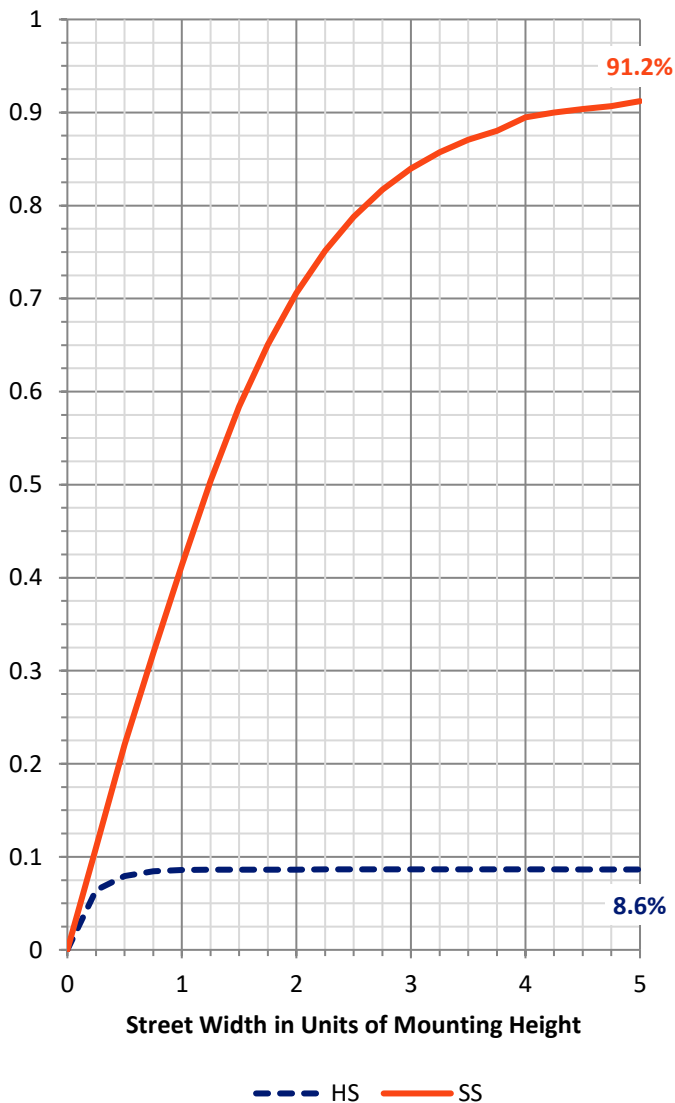
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	418.9	0.0	418.9
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	4392.1	0.0	4392.1
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	4811.0	0.0	4811.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.7	1.1
10°-20°	140.6	2.9
20°-30°	225.1	4.7
30°-40°	324.0	6.7
40°-50°	556.1	11.6
50°-60°	971.6	20.2
60°-70°	1391.4	28.9
70°-80°	1045.8	21.7
80°-90°	102.6	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°	4811.0	100.0
0°-180°	4811.0	100.0

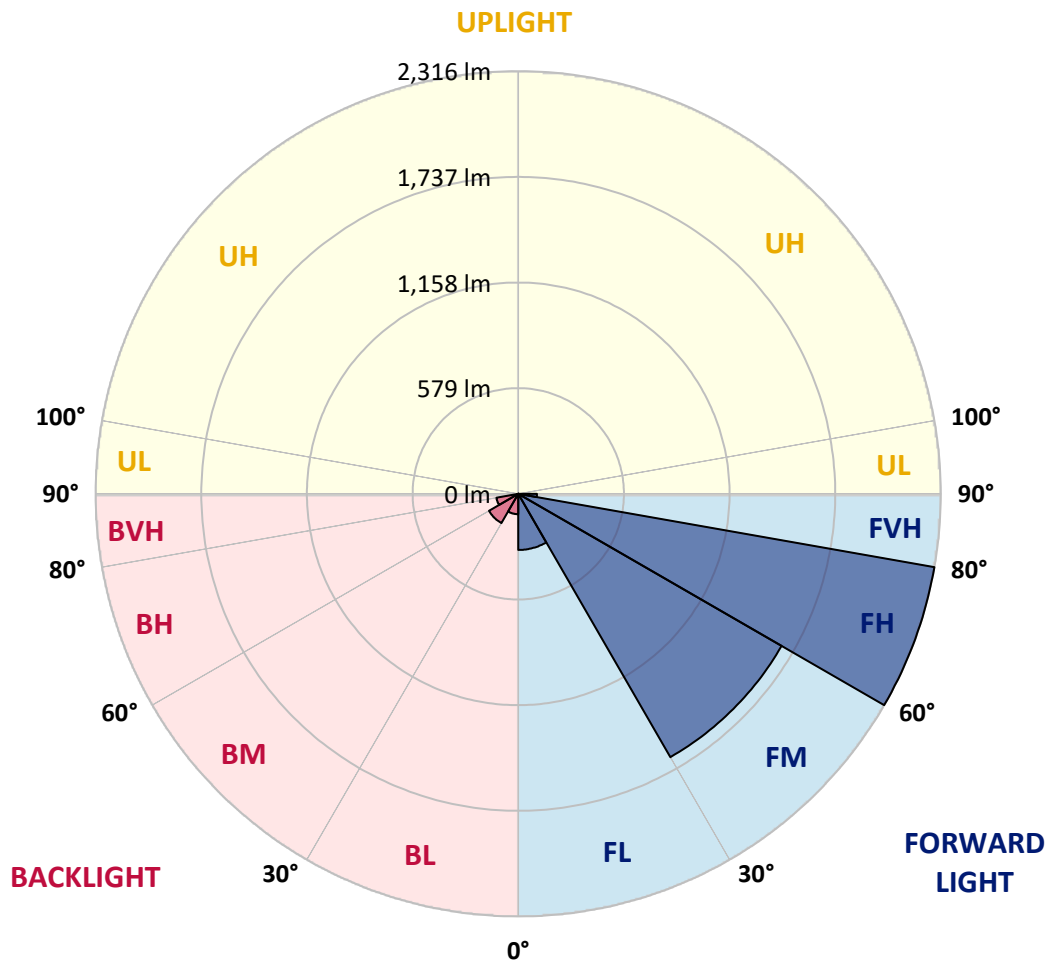


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.6	6.4			
FM (30°-60°)	1666.5	34.6			
FH (60°-80°)	2315.7	48.1			G2/5000
FVH (80°-90°)	102.3	2.1			G2/225
BL (0°-30°)	111.9	2.3	B1/500		
BM (30°-60°)	185.2	3.9	B0/220		
BH (60°-80°)	121.4	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°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	633.5	636.8	638.4	630.3	630.3	623.8	614.0	610.8	605.9	601.0	599.4
5°	666.0	670.9	669.2	659.5	654.6	641.6	628.6	615.6	602.6	591.3	591.3
7.5°	703.4	705.0	700.1	683.9	674.1	656.2	636.8	622.1	605.9	589.6	586.4
10°	735.8	734.2	727.7	711.5	693.6	670.9	649.7	633.5	614.0	594.5	592.9
12.5°	758.6	760.2	752.1	729.3	711.5	685.5	664.4	648.1	625.4	604.3	599.4
15°	778.1	782.9	773.2	750.5	724.5	701.7	685.5	664.4	638.4	614.0	610.8
17.5°	795.9	797.6	789.4	763.5	739.1	719.6	701.7	682.2	656.2	625.4	622.1
20°	805.7	810.6	805.7	773.2	750.5	735.8	721.2	701.7	672.5	643.3	640.0
22.5°	812.2	817.1	815.4	779.7	760.2	748.8	735.8	718.0	690.4	656.2	653.0
25°	815.4	818.7	821.9	786.2	770.0	765.1	753.7	737.5	711.5	675.7	672.5
27.5°	820.3	823.6	826.8	794.3	787.8	782.9	779.7	766.7	735.8	698.5	693.6
30°	828.4	833.3	836.6	808.9	808.9	813.8	813.8	795.9	761.8	722.8	719.6
32.5°	838.2	839.8	846.3	823.6	831.7	843.0	839.8	821.9	786.2	750.5	745.6
35°	864.2	864.2	875.5	846.3	856.0	865.8	869.0	856.0	823.6	787.8	786.2
37.5°	927.5	927.5	937.3	890.2	888.5	898.3	909.6	909.6	877.2	844.7	841.4
40°	1070.5	1070.5	1070.5	961.6	943.8	955.1	973.0	982.7	955.1	932.4	932.4
42.5°	1309.2	1310.9	1286.5	1093.2	1016.9	1036.3	1055.8	1077.0	1062.3	1046.1	1042.8
45°	1556.1	1548.0	1544.8	1286.5	1146.8	1137.1	1161.4	1197.2	1202.0	1192.3	1198.8
47.5°	1725.1	1733.2	1738.1	1526.9	1328.7	1262.1	1284.9	1335.2	1364.5	1362.8	1372.6
50°	1889.1	1894.0	1898.9	1791.7	1569.1	1419.7	1434.3	1502.5	1543.2	1556.1	1562.6
52.5°	2032.1	2019.1	2040.2	2025.6	1824.2	1600.0	1600.0	1678.0	1751.1	1755.9	1754.3
55°	2074.3	2082.4	2145.8	2189.7	2085.7	1820.9	1788.4	1871.3	1949.2	1989.9	1989.9
57.5°	2168.5	2176.7	2253.0	2352.1	2275.7	2038.6	1989.9	2071.1	2155.5	2233.5	2244.9
60°	2292.0	2293.6	2374.8	2525.9	2420.3	2235.1	2194.5	2287.1	2371.6	2504.8	2542.1
62.5°	2358.6	2365.1	2477.2	2675.3	2602.2	2407.3	2397.6	2482.0	2590.9	2824.8	2858.9
65°	2256.3	2298.5	2542.1	2764.7	2750.1	2568.1	2602.2	2670.5	2795.5	3138.3	3170.8
67.5°	1952.5	1999.6	2434.9	2849.1	2878.4	2719.2	2754.9	2854.0	2992.1	3375.4	3330.0
70°	1798.2	1837.2	2175.0	2896.3	2985.6	2888.1	2904.4	2997.0	3037.6	3177.3	3128.5
72.5°	1362.8	1403.5	1840.4	2735.4	3078.2	3065.2	3024.6	2948.2	2707.8	2499.9	2381.3
75°	602.6	649.7	1224.8	2137.7	2849.1	3165.9	2951.5	2524.3	1944.4	1419.7	1315.7
77.5°	266.4	294.0	474.3	1187.4	2140.9	2740.3	2334.2	1682.8	976.2	527.9	490.6
80°	86.1	89.3	149.4	415.8	1094.8	1814.4	1429.4	808.9	300.5	123.5	115.3
82.5°	34.1	37.4	71.5	175.4	453.2	721.2	701.7	292.4	87.7	32.5	32.5
85°	9.7	11.4	35.7	92.6	160.8	203.0	248.5	97.5	47.1	9.7	9.7
87.5°	3.2	3.2	13.0	29.2	30.9	21.1	47.1	37.4	29.2	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°	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4	599.4
2.5°	596.1	592.9	584.8	578.3	575.0	570.2	563.7	560.4	560.4	558.8	553.9
5°	584.8	579.9	565.3	555.5	547.4	529.5	516.5	500.3	484.1	479.2	484.1
7.5°	579.9	570.2	550.7	531.2	497.1	450.0	419.1	385.0	373.6	359.0	360.6
10°	581.5	570.2	542.5	498.7	432.1	362.2	313.5	268.0	245.3	233.9	235.5
12.5°	586.4	573.4	534.4	454.8	359.0	274.5	199.8	164.1	157.6	157.6	157.6
15°	596.1	576.7	521.4	402.8	281.0	181.9	141.3	138.1	142.9	147.8	149.4
17.5°	605.9	586.4	501.9	349.2	204.7	136.4	131.6	131.6	136.4	141.3	142.9
20°	617.3	596.1	474.3	292.4	146.2	128.3	126.7	125.1	128.3	133.2	134.8
22.5°	635.1	605.9	441.8	225.8	126.7	123.5	120.2	118.6	120.2	125.1	126.7
25°	651.4	618.9	407.7	167.3	118.6	115.3	113.7	112.1	112.1	115.3	117.0
27.5°	670.9	633.5	370.4	125.1	108.8	107.2	105.6	104.0	102.3	105.6	107.2
30°	695.2	646.5	329.7	105.6	99.1	97.5	95.8	94.2	92.6	94.2	95.8
32.5°	726.1	664.4	282.6	95.8	91.0	86.1	84.5	84.5	82.8	82.8	84.5
35°	766.7	683.9	232.3	89.3	82.8	78.0	73.1	71.5	71.5	71.5	73.1
37.5°	826.8	719.6	183.6	82.8	76.3	68.2	63.4	58.5	58.5	58.5	58.5
40°	909.6	758.6	142.9	78.0	71.5	60.1	53.6	47.1	43.9	42.2	43.9
42.5°	1038.0	817.1	110.5	71.5	68.2	53.6	43.9	35.7	29.2	27.6	29.2
45°	1179.3	880.4	87.7	66.6	61.7	45.5	34.1	24.4	17.9	16.2	17.9
47.5°	1358.0	960.0	74.7	60.1	53.6	37.4	24.4	13.0	8.1	9.7	9.7
50°	1530.2	1038.0	68.2	55.2	47.1	30.9	14.6	6.5	3.2	4.9	4.9
52.5°	1720.2	1120.8	63.4	48.7	40.6	22.7	8.1	1.6	0.0	1.6	1.6
55°	1911.9	1195.5	58.5	43.9	32.5	16.2	3.2	0.0	0.0	0.0	1.6
57.5°	2119.8	1258.9	53.6	37.4	24.4	9.7	1.6	0.0	0.0	0.0	0.0
60°	2293.6	1307.6	48.7	32.5	16.2	4.9	0.0	0.0	0.0	0.0	0.0
62.5°	2452.8	1351.5	37.4	24.4	9.7	3.2	0.0	0.0	0.0	0.0	0.0
65°	2558.4	1361.2	26.0	16.2	6.5	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	2511.3	1276.8	16.2	11.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
70°	2207.5	1072.1	11.4	6.5	1.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1544.8	692.0	9.7	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
75°	815.4	250.2	6.5	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	289.1	55.2	3.2	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0
80°	63.4	11.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	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)