

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: P594673

Luminaire Tested: **ISS-PA1C-827-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1C-827-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5030 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

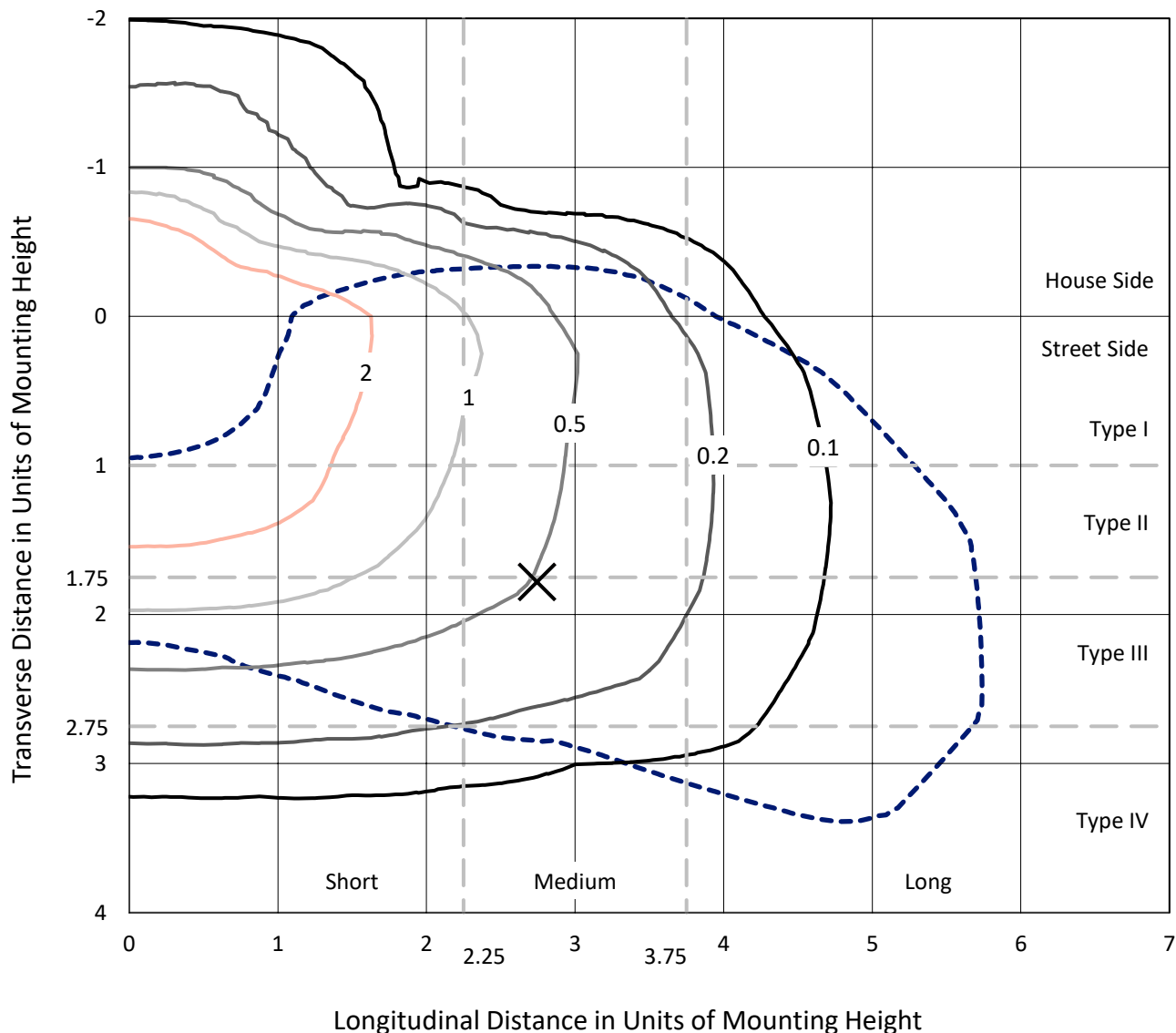
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

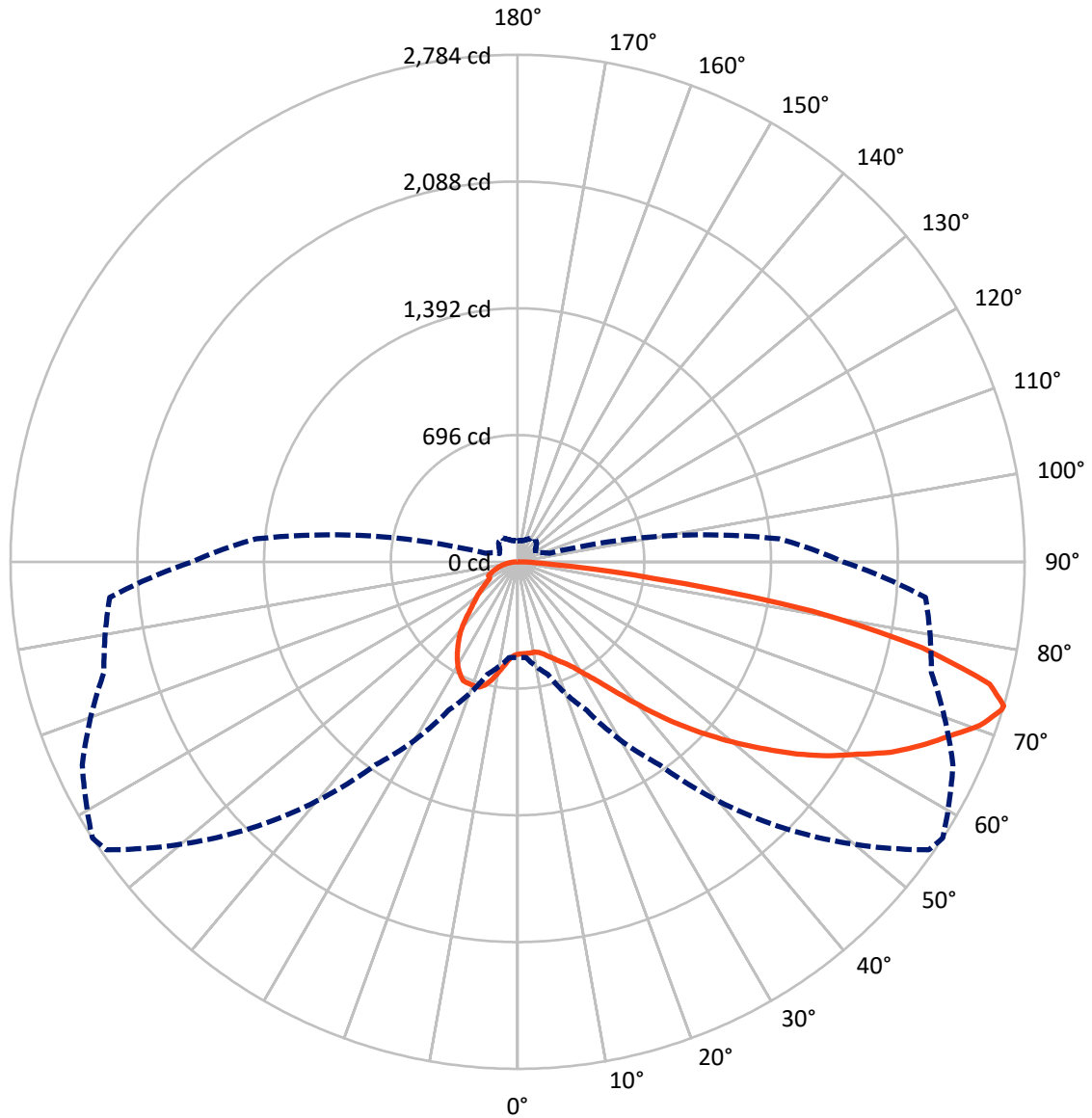
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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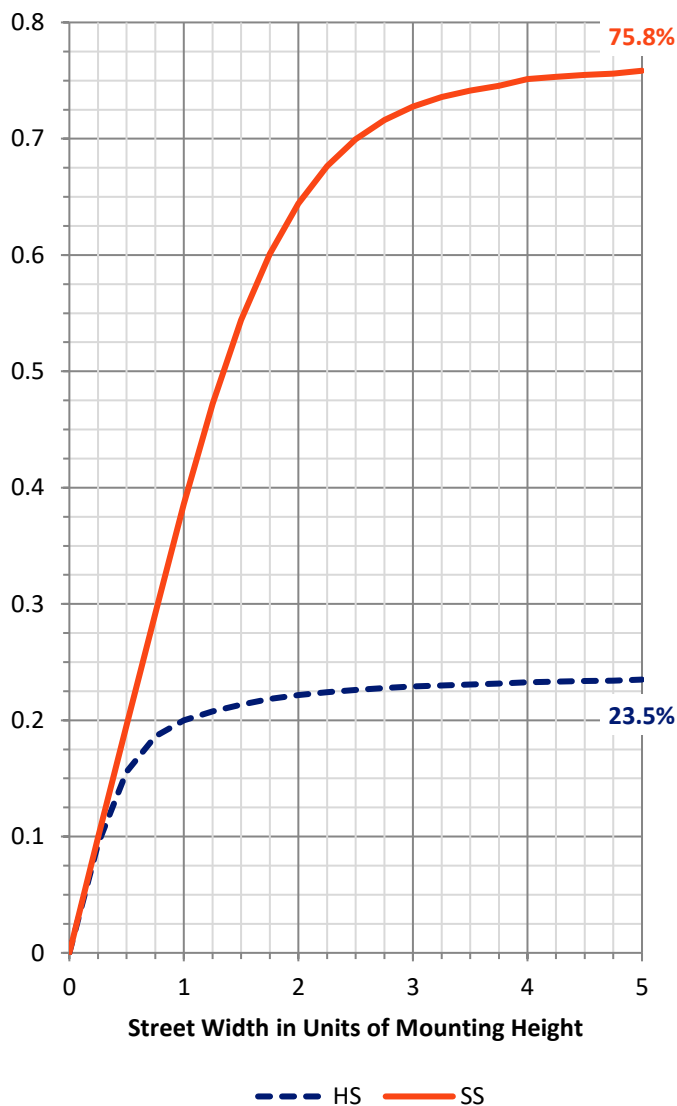
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1200.0	0.0	1200.0
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	3830.0	0.0	3830.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	5030.0	0.0	5030.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.6	1.0
10°-20°	166.4	3.3
20°-30°	307.2	6.1
30°-40°	474.4	9.4
40°-50°	714.0	14.2
50°-60°	1045.0	20.8
60°-70°	1234.1	24.5
70°-80°	883.5	17.6
80°-90°	154.8	3.1
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°	5030.0	100.0
0°-180°	5030.0	100.0

**Coefficient of Utilization**

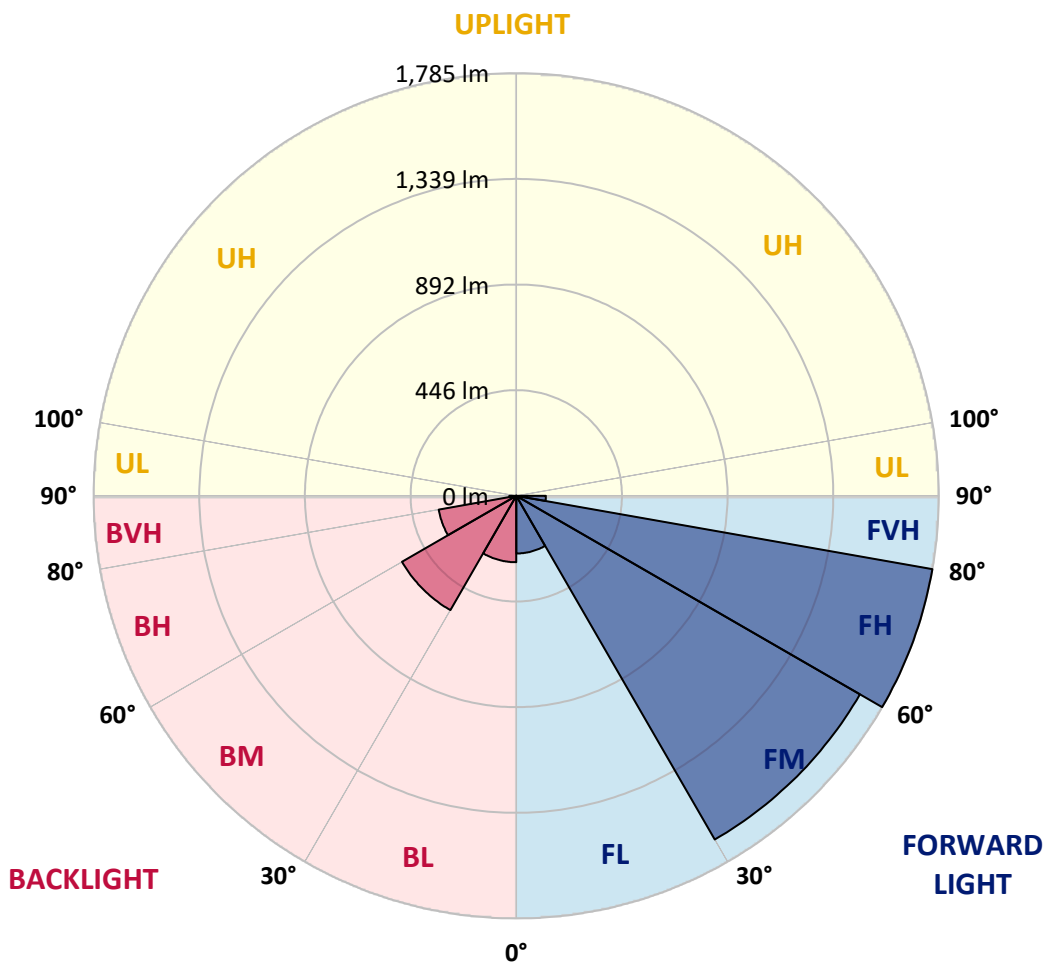


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	243.7	4.8			
FM (30°-60°)	1676.1	33.3			
FH (60°-80°)	1784.9	35.5			G1/1800
FVH (80°-90°)	125.3	2.5			G2/225
BL (0°-30°)	280.4	5.6	B1/500		
BM (30°-60°)	557.3	11.1	B1/1000		
BH (60°-80°)	332.7	6.6	B1/500		G1/500
BVH (80°-90°)	29.6	0.6			G1/100
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°	57°	65°	75°	85°
0°	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8
2.5°	500.6	503.1	501.8	503.1	506.8	504.3	504.3	505.5	506.8	505.5	508.0
5°	479.6	480.9	483.3	488.3	496.9	499.4	505.5	505.5	508.0	510.5	514.2
7.5°	445.1	447.6	452.5	457.5	472.2	487.0	503.1	505.5	514.2	520.3	522.8
10°	439.0	441.4	442.7	450.1	464.9	479.6	499.4	504.3	520.3	530.2	541.3
12.5°	432.8	435.3	439.0	448.8	467.3	483.3	504.3	509.2	529.0	548.7	562.3
15°	437.7	439.0	442.7	452.5	471.0	493.2	520.3	524.0	546.2	570.9	591.9
17.5°	450.1	451.3	450.1	458.7	475.9	501.8	538.8	545.0	572.1	596.8	617.7
20°	478.4	479.6	474.7	474.7	487.0	512.9	558.6	567.2	600.5	627.6	648.6
22.5°	540.1	537.6	525.3	509.2	509.2	530.2	580.8	593.1	635.0	657.2	675.7
25°	627.6	627.6	607.9	578.3	558.6	556.1	606.6	620.2	669.5	696.7	707.8
27.5°	733.7	734.9	702.8	663.4	625.1	606.6	643.6	657.2	712.7	741.1	744.7
30°	827.4	828.6	796.5	759.5	712.7	672.0	693.0	707.8	771.9	794.1	781.7
32.5°	921.1	922.3	900.1	849.6	800.2	749.7	755.8	764.5	829.8	850.8	831.1
35°	1002.5	1006.2	984.0	945.7	893.9	848.3	837.2	838.5	897.6	911.2	885.3
37.5°	1085.1	1085.1	1071.5	1035.7	991.4	940.8	926.0	929.7	982.7	996.3	959.3
40°	1189.9	1194.8	1187.4	1143.0	1092.5	1050.5	1035.7	1040.7	1098.6	1091.2	1051.8
42.5°	1316.9	1328.0	1315.6	1267.6	1213.3	1166.4	1166.4	1166.4	1215.8	1217.0	1157.8
45°	1479.6	1479.6	1467.3	1425.4	1353.9	1307.0	1291.0	1294.7	1337.8	1342.8	1273.7
47.5°	1615.3	1627.6	1614.0	1583.2	1526.5	1482.1	1431.5	1425.4	1461.1	1461.1	1402.0
50°	1725.0	1747.2	1736.1	1749.7	1709.0	1686.8	1583.2	1565.9	1578.3	1590.6	1525.3
52.5°	1816.3	1833.5	1829.8	1869.3	1889.0	1901.3	1737.3	1710.2	1720.1	1718.8	1659.7
55°	1822.4	1828.6	1884.1	1972.8	2050.5	2108.5	1892.7	1863.1	1853.2	1848.3	1802.7
57.5°	1786.7	1790.4	1901.3	2006.1	2175.1	2241.6	2039.4	2009.8	1996.3	1979.0	1960.5
60°	1700.3	1718.8	1864.3	2025.9	2249.0	2345.2	2176.3	2145.5	2135.6	2098.6	2140.5
62.5°	1590.6	1599.2	1744.7	1985.2	2258.9	2389.6	2320.6	2302.1	2271.2	2218.2	2300.8
65°	1435.2	1434.0	1562.2	1865.6	2208.4	2411.8	2442.6	2432.8	2394.5	2303.3	2443.9
67.5°	1178.8	1207.1	1332.9	1653.5	2086.3	2434.0	2567.2	2554.8	2494.4	2379.7	2511.7
70°	898.9	916.1	1059.2	1335.4	1843.4	2373.6	2689.2	2692.9	2583.2	2395.8	2482.1
72.5°	573.4	603.0	716.4	972.9	1475.9	2149.2	2762.0	2779.2	2632.5	2373.6	2298.4
73°	525.3	527.7	638.7	900.1	1361.3	2069.0	2757.1	2784.2	2637.4	2351.4	2247.8
75°	313.2	326.8	393.3	598.0	971.6	1662.1	2623.9	2678.1	2611.6	2252.7	1970.4
77.5°	146.7	156.6	193.6	315.7	529.0	1000.0	2205.9	2270.0	2314.4	1971.6	1501.8
80°	77.7	78.9	94.9	159.1	283.6	411.8	1537.6	1643.6	1706.5	1484.6	1009.9
82.5°	65.4	65.4	74.0	102.3	181.3	160.3	633.8	754.6	924.8	731.2	397.0
85°	53.0	54.3	74.0	76.4	129.5	82.6	151.7	189.9	358.8	323.1	44.4
87.5°	17.3	19.7	41.9	54.3	69.0	32.1	38.2	41.9	41.9	61.7	14.8
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°	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8	506.8
2.5°	509.2	509.2	510.5	511.7	514.2	514.2	516.6	517.9	520.3	521.6	517.9
5°	514.2	516.6	519.1	526.5	535.1	542.5	549.9	556.1	562.3	566.0	564.7
7.5°	527.7	531.4	541.3	554.9	572.1	583.2	594.3	605.4	610.3	612.8	612.8
10°	546.2	553.6	572.1	594.3	614.0	631.3	639.9	647.3	649.8	652.3	649.8
12.5°	572.1	582.0	610.3	638.7	660.9	669.5	668.3	658.4	644.9	642.4	639.9
15°	605.4	617.7	649.8	683.1	700.4	689.3	660.9	651.0	648.6	656.0	653.5
17.5°	633.8	648.6	688.0	722.6	718.9	680.6	672.0	676.9	674.5	675.7	675.7
20°	660.9	681.9	723.8	747.2	715.2	690.5	683.1	676.9	669.5	672.0	669.5
22.5°	695.4	710.2	758.3	759.5	710.2	690.5	674.5	662.1	659.7	660.9	662.1
25°	722.6	746.0	787.9	750.9	710.2	670.8	648.6	646.1	647.3	654.7	652.3
27.5°	759.5	783.0	811.3	746.0	680.6	638.7	630.1	628.8	620.2	622.7	622.7
30°	794.1	822.4	823.7	746.0	643.6	611.6	599.3	577.1	558.6	562.3	561.0
32.5°	840.9	865.6	826.1	716.4	601.7	575.8	542.5	508.0	499.4	504.3	505.5
35°	895.2	914.9	828.6	667.1	559.8	525.3	464.9	445.1	443.9	447.6	451.3
37.5°	966.7	977.8	847.1	610.3	519.1	446.4	399.5	394.6	383.5	376.1	377.3
40°	1054.2	1040.7	882.8	559.8	471.0	374.8	355.1	341.5	320.6	299.6	303.3
42.5°	1151.6	1113.4	893.9	519.1	405.7	330.5	312.0	291.0	265.1	242.9	241.7
45°	1256.5	1194.8	884.1	487.0	340.3	297.2	277.4	252.8	221.9	203.4	203.4
47.5°	1381.0	1272.5	853.3	461.2	294.7	267.6	242.9	218.2	197.3	180.0	180.0
50°	1517.9	1362.5	831.1	415.5	262.6	239.2	214.5	194.8	178.8	165.2	165.2
52.5°	1662.1	1447.6	812.6	348.9	234.3	213.3	196.1	180.0	166.5	149.2	146.7
55°	1808.9	1529.0	821.2	284.8	208.4	194.8	183.7	167.7	162.8	159.1	156.6
57.5°	1961.7	1617.7	842.2	233.0	186.2	185.0	180.0	191.1	202.2	194.8	191.1
60°	2081.4	1686.8	844.6	196.1	172.6	194.8	219.5	223.2	193.6	176.3	175.1
62.5°	2176.3	1752.1	786.7	170.2	176.3	229.3	234.3	197.3	167.7	160.3	160.3
65°	2225.6	1775.6	632.5	155.4	183.7	219.5	212.1	177.6	156.6	155.4	155.4
67.5°	2201.0	1757.1	442.7	139.3	162.8	189.9	189.9	162.8	144.3	150.4	148.0
70°	2082.6	1665.8	292.2	125.8	143.0	171.4	176.3	151.7	134.4	138.1	134.4
72.5°	1836.0	1503.1	192.4	111.0	123.3	151.7	164.0	139.3	123.3	122.1	118.4
73°	1787.9	1441.4	181.3	108.5	119.6	146.7	160.3	136.9	120.8	117.1	114.7
75°	1516.6	1202.2	136.9	97.4	106.0	131.9	149.2	128.2	111.0	106.0	103.6
77.5°	1104.8	833.5	102.3	82.6	88.8	114.7	131.9	117.1	98.6	92.5	91.2
80°	689.3	453.8	76.4	66.6	70.3	96.2	115.9	104.8	85.1	77.7	76.4
82.5°	270.0	148.0	53.0	49.3	51.8	72.7	97.4	91.2	71.5	65.4	61.7
85°	44.4	50.6	34.5	33.3	33.3	51.8	74.0	70.3	48.1	41.9	37.0
87.5°	12.3	23.4	13.6	12.3	12.3	22.2	40.7	32.1	19.7	16.0	14.8
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)