

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: P594678

Luminaire Tested: **ISS-PA1C-830-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1C-830-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5570 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

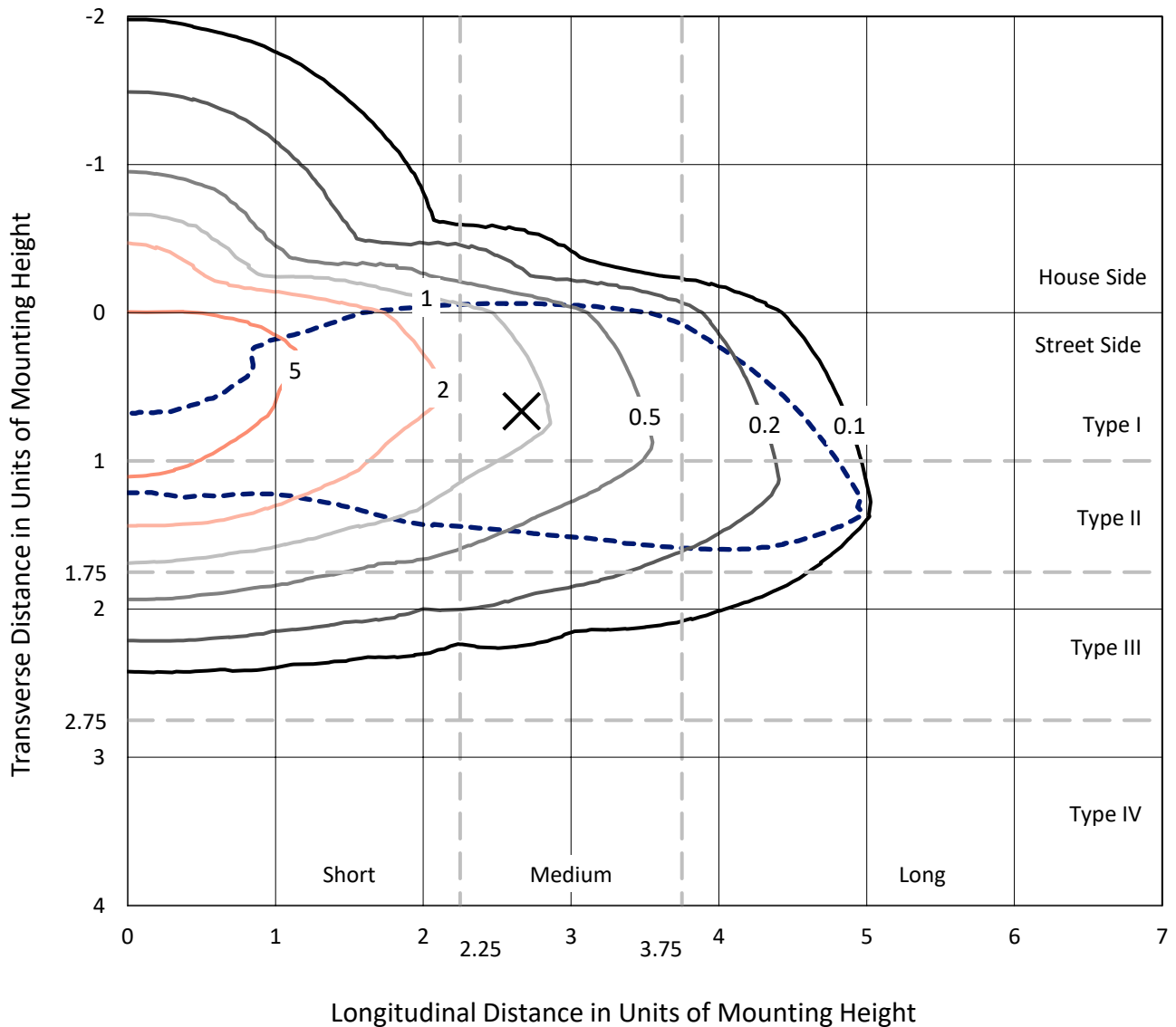
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

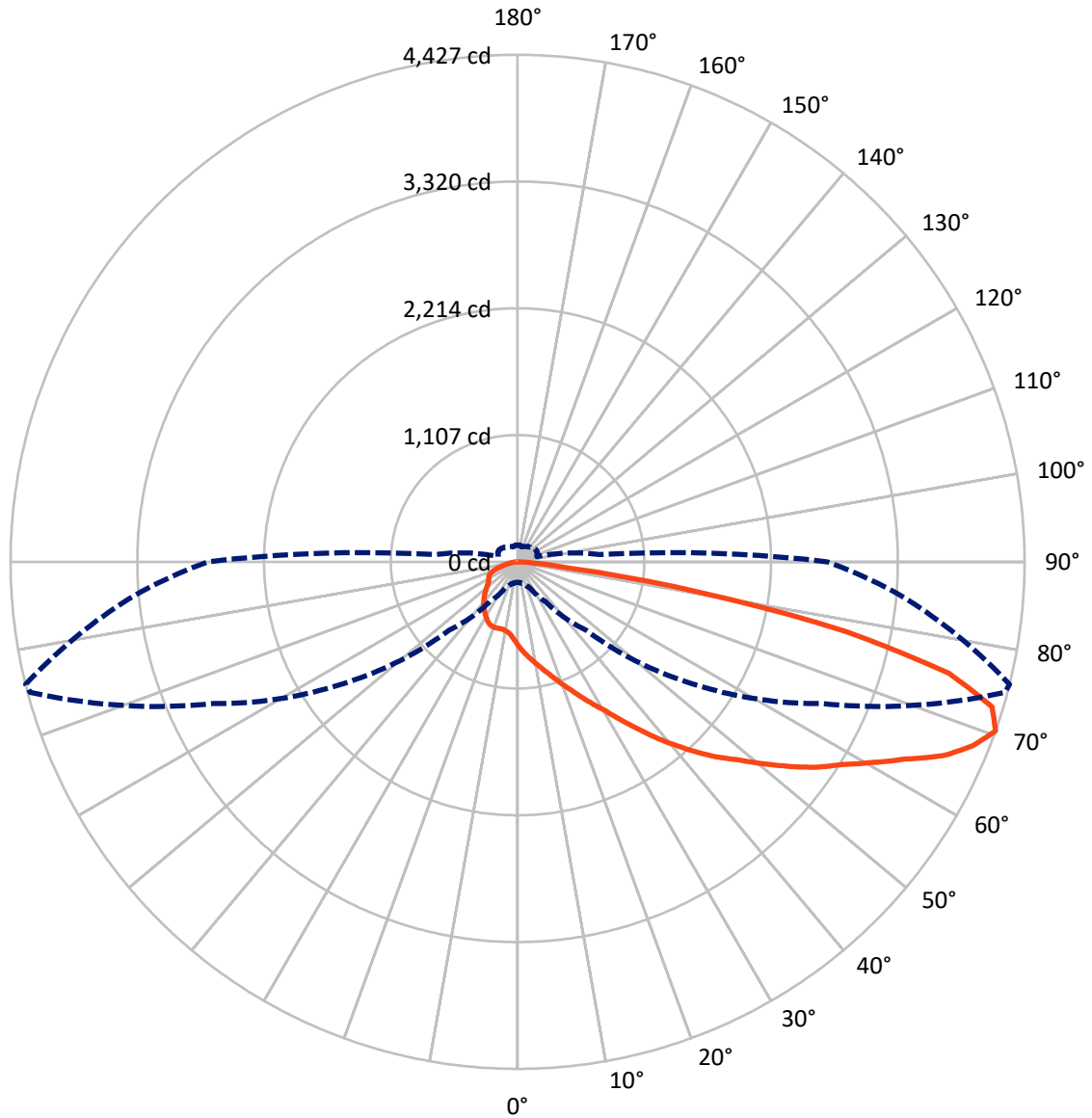
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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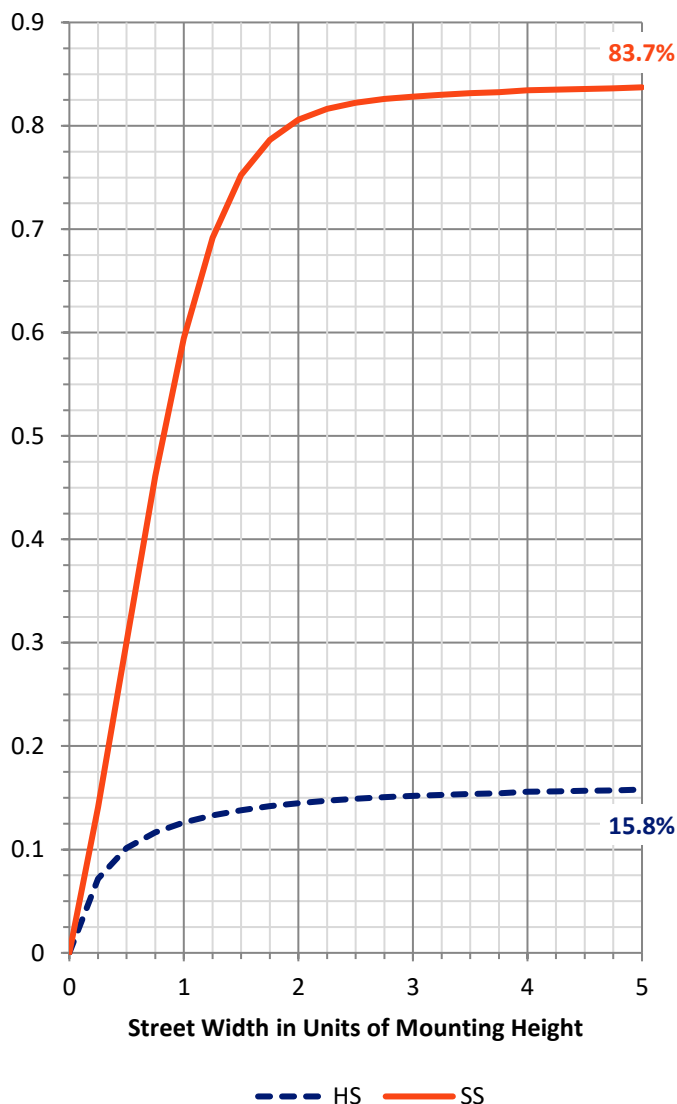
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	893.4	0.0	893.4
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	4676.6	0.0	4676.6
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	5570.0	0.0	5570.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	1.3
10°-20°	235.0	4.2
20°-30°	433.1	7.8
30°-40°	725.6	13.0
40°-50°	1031.1	18.5
50°-60°	1190.4	21.4
60°-70°	1094.3	19.6
70°-80°	690.0	12.4
80°-90°	99.2	1.8
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°	5570.0	100.0
0°-180°	5570.0	100.0

**Coefficient of Utilization**

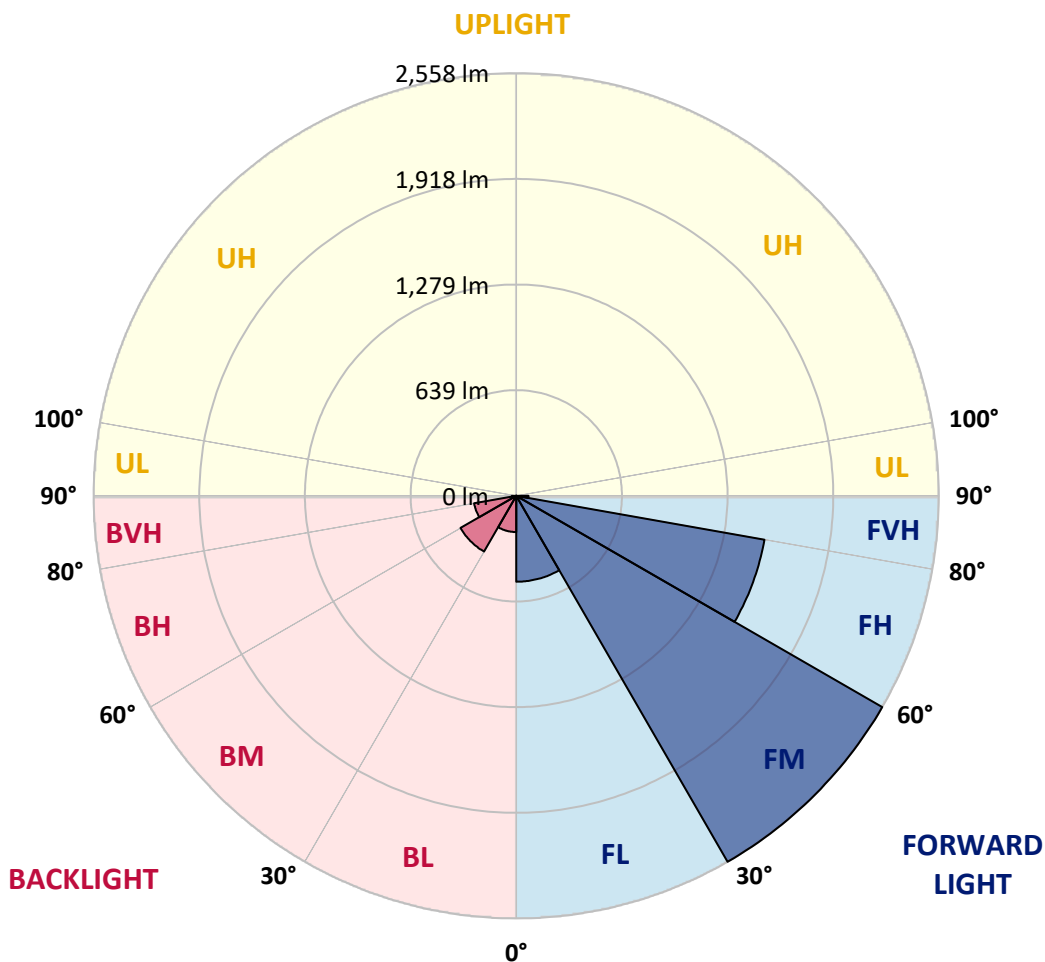


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.0	9.3			
FM (30°-60°)	2557.6	45.9			
FH (60°-80°)	1525.4	27.4			G1/1800
FVH (80°-90°)	73.6	1.3			G1/100
BL (0°-30°)	219.3	3.9	B1/500		
BM (30°-60°)	389.5	7.0	B1/1000		
BH (60°-80°)	258.9	4.6	B1/500		G1/500
BVH (80°-90°)	25.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7
2.5°	879.5	878.2	874.2	867.5	862.1	846.0	824.6	805.8	777.6	774.9	746.8
5°	958.6	953.3	953.3	946.6	939.9	922.4	895.6	862.1	821.9	819.2	765.6
7.5°	996.2	997.5	994.8	989.5	990.8	976.1	951.9	918.4	863.4	860.8	791.0
10°	1049.8	1048.5	1043.1	1039.1	1037.7	1024.3	1002.9	972.0	914.4	909.0	820.5
12.5°	1102.1	1098.1	1099.4	1098.1	1095.4	1082.0	1061.9	1031.0	960.0	957.3	856.7
15°	1131.6	1130.2	1139.6	1142.3	1153.0	1141.0	1123.5	1088.7	1024.3	1013.6	899.6
17.5°	1150.4	1149.0	1158.4	1179.8	1200.0	1200.0	1194.6	1157.1	1086.0	1078.0	947.9
20°	1182.5	1187.9	1204.0	1221.4	1250.9	1256.3	1254.9	1238.8	1157.1	1149.0	1001.5
22.5°	1246.9	1244.2	1257.6	1284.4	1311.2	1319.3	1320.6	1320.6	1238.8	1224.1	1056.5
25°	1385.0	1378.3	1367.6	1364.9	1397.0	1395.7	1391.7	1401.1	1324.6	1313.9	1119.5
27.5°	1647.8	1633.0	1591.5	1508.3	1489.6	1496.3	1476.1	1477.5	1422.5	1409.1	1173.1
30°	1897.1	1890.4	1851.6	1751.0	1645.1	1607.5	1572.7	1557.9	1531.1	1508.3	1230.8
32.5°	2122.4	2123.7	2076.8	1966.9	1858.3	1740.3	1679.9	1649.1	1659.8	1639.7	1309.9
35°	2275.2	2263.2	2233.7	2159.9	2041.9	1929.3	1814.0	1745.6	1803.3	1780.5	1389.0
37.5°	2365.1	2355.7	2331.5	2279.3	2220.3	2111.7	1965.5	1860.9	1973.6	1940.0	1489.6
40°	2410.6	2397.2	2373.1	2351.7	2323.5	2264.5	2135.8	1992.3	2129.1	2099.6	1588.8
42.5°	2416.0	2406.6	2393.2	2382.5	2391.9	2383.8	2302.0	2145.2	2292.7	2260.5	1702.7
45°	2412.0	2418.7	2402.6	2383.8	2402.6	2471.0	2471.0	2298.0	2454.9	2430.8	1811.3
47.5°	2414.7	2408.0	2402.6	2397.2	2399.9	2493.8	2587.6	2441.5	2610.4	2582.3	1938.7
50°	2303.4	2312.8	2358.4	2378.5	2390.5	2499.1	2681.5	2597.0	2803.5	2768.6	2080.8
52.5°	1949.4	1954.8	2162.6	2312.8	2361.0	2477.7	2747.2	2770.0	2993.9	2967.0	2233.7
55°	1501.6	1529.8	1726.9	2094.2	2294.0	2441.5	2767.3	2882.6	3188.3	3166.8	2387.9
57.5°	1236.2	1240.2	1354.1	1682.6	2082.2	2408.0	2787.4	2985.8	3362.6	3338.4	2548.7
60°	1025.7	1016.3	1086.0	1297.8	1729.5	2273.9	2791.4	3067.6	3565.0	3557.0	2715.0
62.5°	753.5	764.2	831.3	1010.9	1352.8	2001.7	2771.3	3137.3	3806.3	3795.6	2900.0
65°	462.6	476.0	557.7	722.7	1024.3	1588.8	2639.9	3173.5	4059.7	4083.9	3099.8
67.5°	245.4	254.7	303.0	437.1	702.5	1210.7	2323.5	3127.9	4274.3	4285.0	3291.5
70°	179.7	181.0	197.1	246.7	423.7	842.0	1850.2	2929.5	4405.7	4427.1	3354.5
72.5°	156.9	158.2	164.9	177.0	230.6	513.5	1326.0	2583.6	4350.7	4331.9	3248.6
75°	142.1	142.1	147.5	151.5	168.9	284.2	812.5	2114.3	3931.0	3889.5	2770.0
77.5°	122.0	122.0	127.4	132.7	146.1	183.7	425.0	1567.3	3005.9	2934.9	1894.5
80°	97.9	97.9	104.6	111.3	128.7	138.1	207.8	1048.5	1718.8	1614.2	862.1
82.5°	67.0	72.4	84.5	92.5	107.3	97.9	122.0	453.2	541.7	469.3	194.4
85°	40.2	42.9	60.3	69.7	80.4	52.3	75.1	174.3	162.2	142.1	44.2
87.5°	4.0	6.7	24.1	28.2	28.2	14.7	32.2	41.6	46.9	48.3	10.7
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°	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7	730.7
2.5°	730.7	714.6	683.8	655.6	627.5	608.7	589.9	583.2	573.8	567.1	572.5
5°	737.4	703.9	644.9	595.3	561.8	536.3	524.2	517.5	512.2	510.8	509.5
7.5°	745.4	695.8	616.7	561.8	529.6	517.5	514.8	514.8	514.8	516.2	517.5
10°	762.9	698.5	602.0	543.0	525.6	522.9	524.2	529.6	529.6	530.9	530.9
12.5°	783.0	705.2	591.3	540.3	529.6	530.9	532.3	535.0	535.0	539.0	537.6
15°	812.5	718.6	589.9	543.0	533.6	530.9	530.9	529.6	529.6	529.6	532.3
17.5°	850.0	737.4	591.3	543.0	529.6	524.2	520.2	516.2	510.8	513.5	510.8
20°	887.6	760.2	591.3	536.3	518.9	505.5	493.4	486.7	480.0	478.6	480.0
22.5°	934.5	787.0	584.6	521.5	496.1	477.3	459.9	450.5	439.8	435.7	433.1
25°	974.7	808.5	571.2	500.1	470.6	443.8	421.0	404.9	391.5	388.8	388.8
27.5°	1016.3	827.2	551.0	473.3	434.4	404.9	379.4	359.3	345.9	344.6	343.2
30°	1055.2	843.3	524.2	443.8	402.2	367.4	337.9	320.4	308.4	301.7	297.6
32.5°	1106.1	864.8	498.8	414.3	364.7	329.8	303.0	288.3	272.2	261.4	257.4
35°	1170.5	890.2	470.6	382.1	331.2	296.3	280.2	258.8	238.7	226.6	222.6
37.5°	1242.9	926.4	441.1	348.6	297.6	272.2	262.8	229.3	207.8	203.8	202.5
40°	1332.7	961.3	407.6	313.7	265.5	258.8	242.7	207.8	197.1	195.7	194.4
42.5°	1422.5	998.8	375.4	278.9	240.0	242.7	219.9	202.5	193.1	190.4	189.0
45°	1527.1	1036.4	343.2	248.0	219.9	219.9	207.8	197.1	189.0	186.4	186.4
47.5°	1637.0	1073.9	308.4	221.2	205.1	197.1	198.4	190.4	185.0	182.3	181.0
50°	1775.1	1110.1	276.2	202.5	195.7	185.0	189.0	183.7	181.0	178.3	177.0
52.5°	1905.2	1126.2	246.7	191.7	190.4	179.7	181.0	178.3	177.0	173.0	171.6
55°	2032.6	1122.2	223.9	186.4	183.7	178.3	175.6	174.3	173.0	168.9	167.6
57.5°	2174.7	1116.8	209.2	185.0	179.7	174.3	174.3	170.3	164.9	164.9	164.9
60°	2322.2	1099.4	202.5	185.0	178.3	174.3	171.6	167.6	162.2	163.6	162.2
62.5°	2488.4	1065.9	198.4	189.0	179.7	173.0	170.3	164.9	158.2	159.5	158.2
65°	2634.5	997.5	195.7	193.1	182.3	174.3	167.6	160.9	152.8	154.2	152.8
67.5°	2733.8	882.2	187.7	195.7	186.4	173.0	164.9	155.5	144.8	150.2	148.8
70°	2705.6	717.3	173.0	190.4	190.4	174.3	160.9	148.8	136.8	147.5	143.5
72.5°	2487.1	539.0	144.8	171.6	187.7	174.3	152.8	138.1	127.4	134.1	126.0
75°	2041.9	366.0	115.3	136.8	175.6	175.6	146.1	127.4	114.0	109.9	107.3
77.5°	1273.7	227.9	89.8	100.6	147.5	174.3	139.4	114.0	95.2	92.5	89.8
80°	504.1	122.0	71.1	72.4	108.6	159.5	130.1	96.5	76.4	73.7	68.4
82.5°	115.3	61.7	49.6	48.3	67.0	130.1	118.0	76.4	59.0	59.0	49.6
85°	34.9	32.2	32.2	30.8	33.5	67.0	91.2	52.3	40.2	28.2	24.1
87.5°	9.4	13.4	12.1	10.7	10.7	9.4	29.5	13.4	8.0	4.0	2.7
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)