

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: P594174

Luminaire Tested: **ISC-PA1C-827-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594174  
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: ISC-PA1C-827-U-T2R  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 80 CRI, 2700K, 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: 5153 lumens  
Efficiency: N/A  
Efficacy: 105.4 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

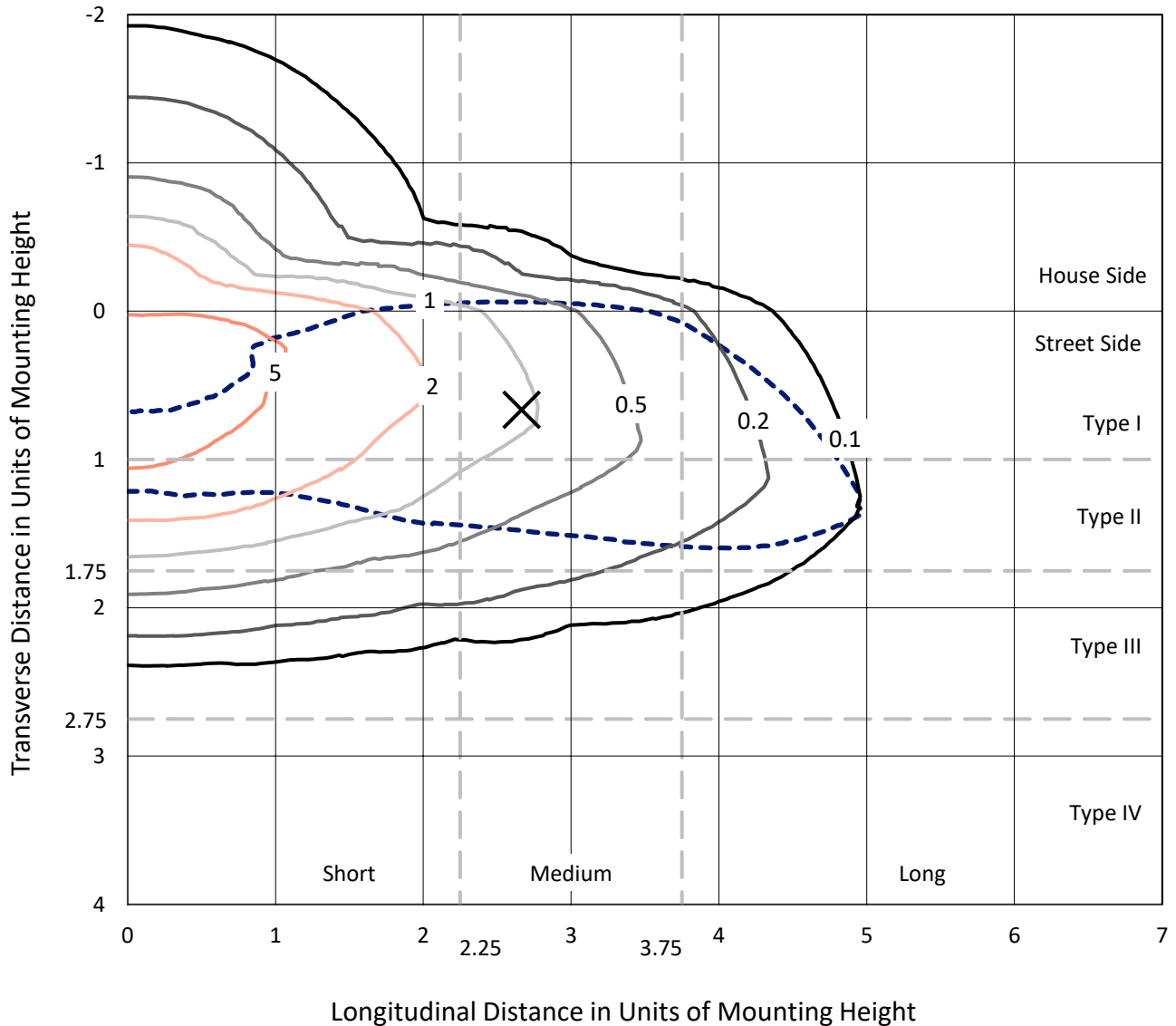
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

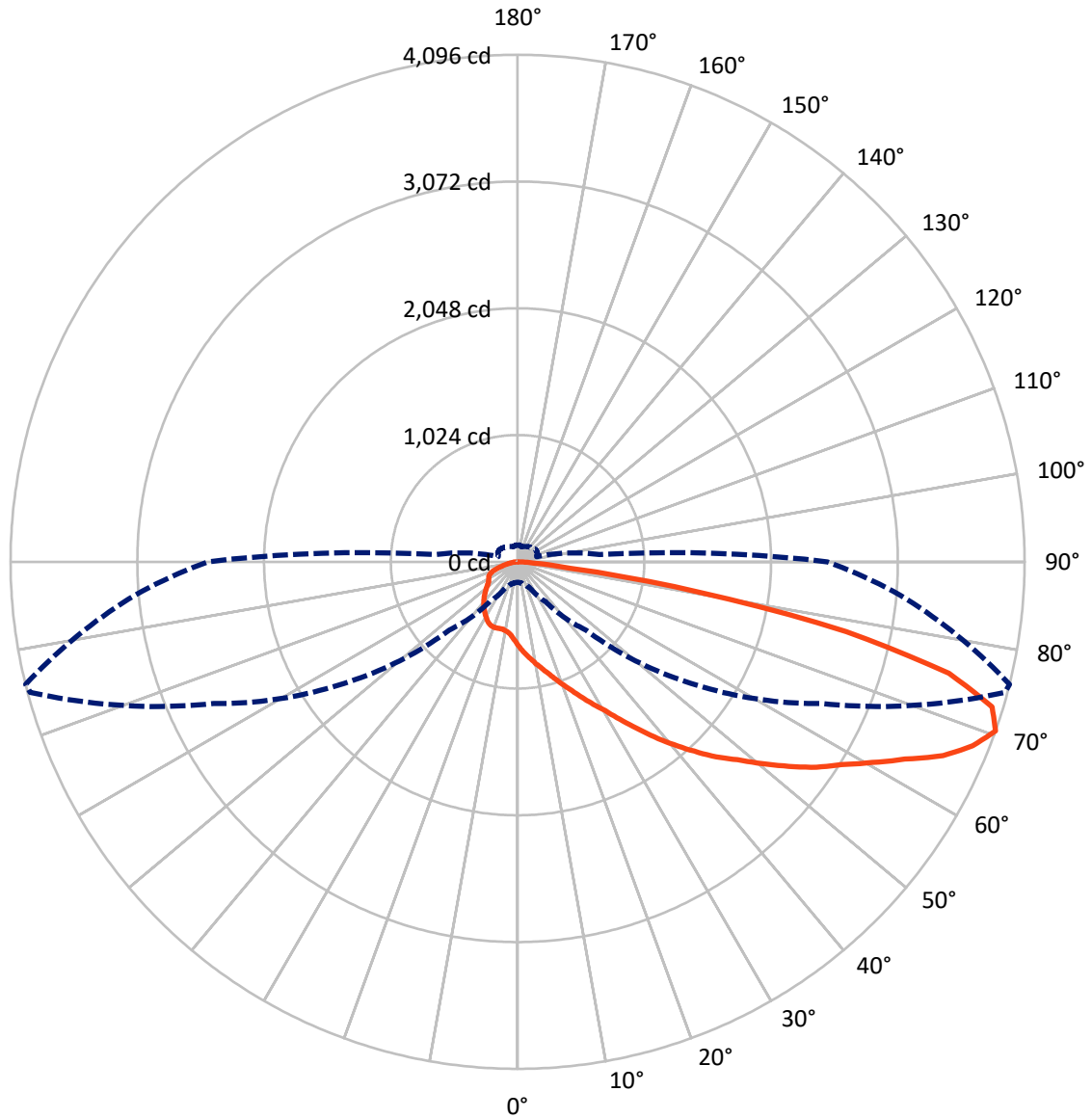
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.1 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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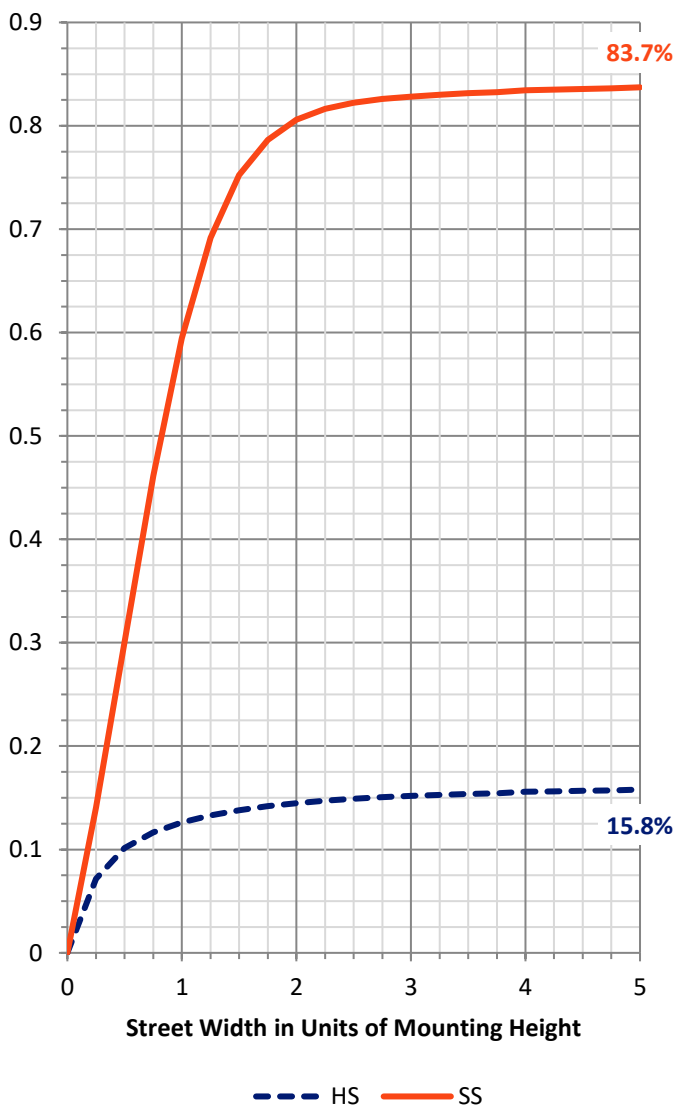
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	826.5	0.0	826.5
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	4326.5	0.0	4326.5
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	5153.0	0.0	5153.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	1.3
10°-20°	217.4	4.2
20°-30°	400.7	7.8
30°-40°	671.3	13.0
40°-50°	953.9	18.5
50°-60°	1101.3	21.4
60°-70°	1012.4	19.6
70°-80°	638.4	12.4
80°-90°	91.8	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°	5153.0	100.0
0°-180°	5153.0	100.0

**Coefficient of Utilization**

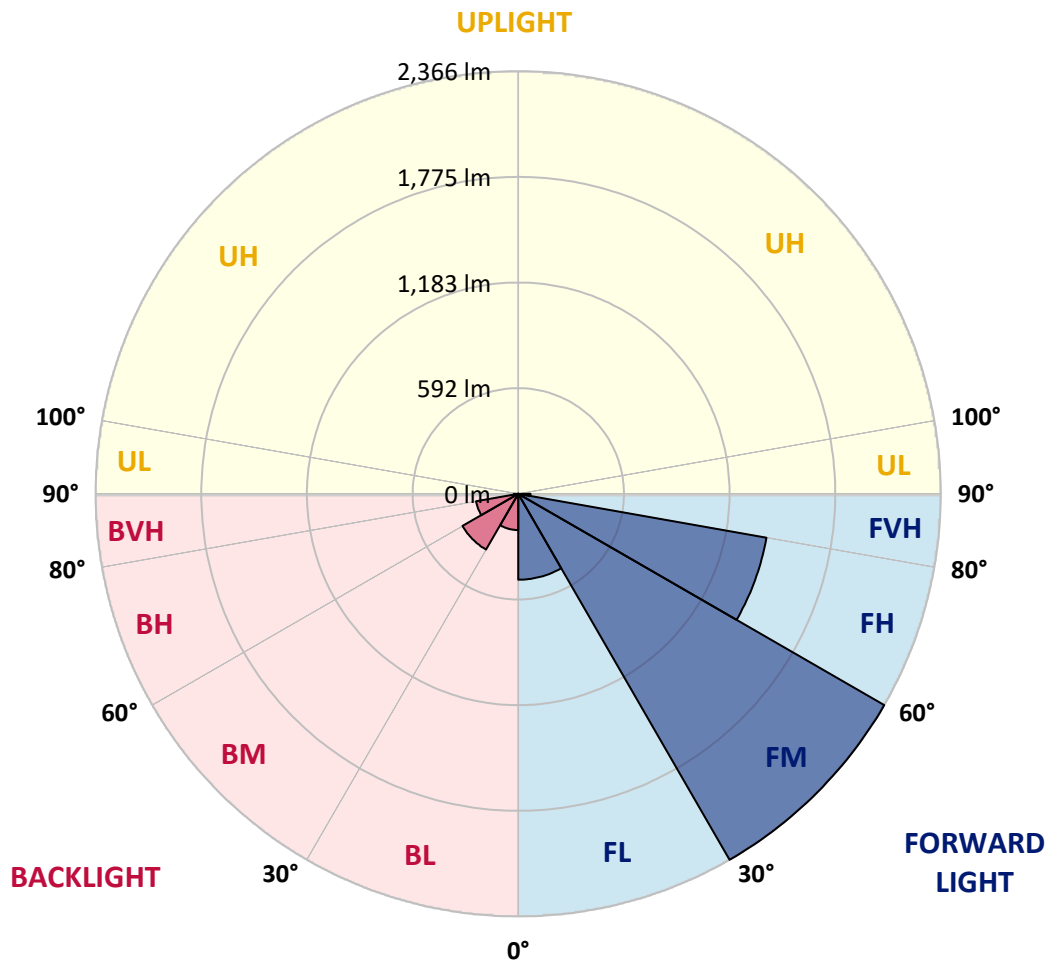


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	481.1	9.3			
FM (30°-60°)	2366.1	45.9			
FH (60°-80°)	1411.2	27.4			G1/1800
FVH (80°-90°)	68.1	1.3			G1/100
BL (0°-30°)	202.9	3.9	B1/500		
BM (30°-60°)	360.3	7.0	B1/1000		
BH (60°-80°)	239.5	4.6	B1/500		G1/500
BVH (80°-90°)	23.8	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°	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
2.5°	813.7	812.4	808.7	802.5	797.6	782.7	762.8	745.5	719.4	716.9	690.9
5°	886.9	881.9	881.9	875.7	869.5	853.4	828.6	797.6	760.3	757.9	708.2
7.5°	921.6	922.8	920.3	915.4	916.6	903.0	880.7	849.6	798.8	796.3	731.8
10°	971.2	970.0	965.0	961.3	960.0	947.6	927.8	899.3	845.9	841.0	759.1
12.5°	1019.6	1015.9	1017.1	1015.9	1013.4	1001.0	982.4	953.8	888.1	885.6	792.6
15°	1046.9	1045.6	1054.3	1056.8	1066.7	1055.5	1039.4	1007.2	947.6	937.7	832.3
17.5°	1064.2	1063.0	1071.7	1091.5	1110.1	1110.1	1105.2	1070.4	1004.7	997.3	876.9
20°	1094.0	1099.0	1113.8	1130.0	1157.3	1162.2	1161.0	1146.1	1070.4	1063.0	926.5
22.5°	1153.5	1151.1	1163.5	1188.3	1213.1	1220.5	1221.8	1221.8	1146.1	1132.4	977.4
25°	1281.3	1275.1	1265.2	1262.7	1292.5	1291.2	1287.5	1296.2	1225.5	1215.6	1035.7
27.5°	1524.4	1510.8	1472.3	1395.4	1378.0	1384.2	1365.6	1366.9	1316.0	1303.6	1085.3
30°	1755.1	1748.9	1712.9	1619.9	1521.9	1487.2	1454.9	1441.3	1416.5	1395.4	1138.7
32.5°	1963.5	1964.7	1921.3	1819.6	1719.1	1610.0	1554.2	1525.6	1535.6	1517.0	1211.8
35°	2104.9	2093.7	2066.4	1998.2	1889.1	1784.9	1678.2	1615.0	1668.3	1647.2	1285.0
37.5°	2188.0	2179.3	2157.0	2108.6	2054.0	1953.6	1818.4	1721.6	1825.8	1794.8	1378.0
40°	2230.2	2217.8	2195.4	2175.6	2149.5	2095.0	1975.9	1843.2	1969.7	1942.4	1469.8
42.5°	2235.1	2226.4	2214.0	2204.1	2212.8	2205.4	2129.7	1984.6	2121.0	2091.2	1575.3
45°	2231.4	2237.6	2222.7	2205.4	2222.7	2286.0	2286.0	2126.0	2271.1	2248.8	1675.7
47.5°	2233.9	2227.7	2222.7	2217.8	2220.2	2307.1	2393.9	2258.7	2415.0	2388.9	1793.6
50°	2130.9	2139.6	2181.8	2200.4	2211.6	2312.0	2480.7	2402.6	2593.6	2561.3	1925.0
52.5°	1803.5	1808.4	2000.7	2139.6	2184.3	2292.2	2541.5	2562.6	2769.7	2744.9	2066.4
55°	1389.2	1415.3	1597.6	1937.4	2122.3	2258.7	2560.1	2666.8	2949.6	2929.7	2209.1
57.5°	1143.6	1147.3	1252.8	1556.7	1926.3	2227.7	2578.7	2762.3	3110.8	3088.5	2357.9
60°	948.9	940.2	1004.7	1200.7	1600.1	2103.7	2582.4	2837.9	3298.1	3290.7	2511.7
62.5°	697.1	707.0	769.0	935.2	1251.5	1851.9	2563.8	2902.4	3521.4	3511.5	2682.9
65°	427.9	440.3	516.0	668.6	947.6	1469.8	2442.3	2935.9	3755.8	3778.1	2867.7
67.5°	227.0	235.7	280.3	404.4	649.9	1120.0	2149.5	2893.8	3954.3	3964.2	3045.1
70°	166.2	167.4	182.3	228.2	392.0	778.9	1711.7	2710.2	4075.8	4095.7	3103.4
72.5°	145.1	146.4	152.6	163.7	213.3	475.1	1226.7	2390.2	4025.0	4007.6	3005.4
75°	131.5	131.5	136.4	140.2	156.3	263.0	751.7	1956.0	3636.7	3598.3	2562.6
77.5°	112.9	112.9	117.8	122.8	135.2	169.9	393.2	1450.0	2780.9	2715.2	1752.6
80°	90.5	90.5	96.7	102.9	119.1	127.8	192.3	970.0	1590.1	1493.4	797.6
82.5°	62.0	67.0	78.1	85.6	99.2	90.5	112.9	419.2	501.1	434.1	179.9
85°	37.2	39.7	55.8	64.5	74.4	48.4	69.5	161.2	150.1	131.5	40.9
87.5°	3.7	6.2	22.3	26.0	26.0	13.6	29.8	38.5	43.4	44.7	9.9
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°	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0	676.0
2.5°	676.0	661.1	632.6	606.5	580.5	563.1	545.8	539.6	530.9	524.7	529.6
5°	682.2	651.2	596.6	550.7	519.7	496.1	485.0	478.8	473.8	472.6	471.3
7.5°	689.6	643.7	570.6	519.7	489.9	478.8	476.3	476.3	476.3	477.5	478.8
10°	705.8	646.2	556.9	502.3	486.2	483.7	485.0	489.9	489.9	491.2	491.2
12.5°	724.4	652.4	547.0	499.9	489.9	491.2	492.4	494.9	494.9	498.6	497.4
15°	751.7	664.8	545.8	502.3	493.7	491.2	491.2	489.9	489.9	489.9	492.4
17.5°	786.4	682.2	547.0	502.3	489.9	485.0	481.3	477.5	472.6	475.1	472.6
20°	821.1	703.3	547.0	496.1	480.0	467.6	456.5	450.3	444.0	442.8	444.0
22.5°	864.5	728.1	540.8	482.5	458.9	441.6	425.4	416.8	406.8	403.1	400.6
25°	901.7	747.9	528.4	462.7	435.4	410.6	389.5	374.6	362.2	359.7	359.7
27.5°	940.2	765.3	509.8	437.8	401.9	374.6	351.0	332.4	320.0	318.8	317.5
30°	976.2	780.2	485.0	410.6	372.1	339.9	312.6	296.4	285.3	279.1	275.4
32.5°	1023.3	800.0	461.4	383.3	337.4	305.1	280.3	266.7	251.8	241.9	238.1
35°	1082.8	823.6	435.4	353.5	306.4	274.1	259.2	239.4	220.8	209.6	205.9
37.5°	1149.8	857.1	408.1	322.5	275.4	251.8	243.1	212.1	192.3	188.5	187.3
40°	1232.9	889.3	377.1	290.2	245.6	239.4	224.5	192.3	182.3	181.1	179.9
42.5°	1316.0	924.1	347.3	258.0	222.0	224.5	203.4	187.3	178.6	176.1	174.9
45°	1412.8	958.8	317.5	229.5	203.4	203.4	192.3	182.3	174.9	172.4	172.4
47.5°	1514.5	993.5	285.3	204.7	189.8	182.3	183.6	176.1	171.2	168.7	167.4
50°	1642.2	1027.0	255.5	187.3	181.1	171.2	174.9	169.9	167.4	165.0	163.7
52.5°	1762.6	1041.9	228.2	177.4	176.1	166.2	167.4	165.0	163.7	160.0	158.8
55°	1880.4	1038.2	207.1	172.4	169.9	165.0	162.5	161.2	160.0	156.3	155.0
57.5°	2011.9	1033.2	193.5	171.2	166.2	161.2	161.2	157.5	152.6	152.6	152.6
60°	2148.3	1017.1	187.3	171.2	165.0	161.2	158.8	155.0	150.1	151.3	150.1
62.5°	2302.1	986.1	183.6	174.9	166.2	160.0	157.5	152.6	146.4	147.6	146.4
65°	2437.3	922.8	181.1	178.6	168.7	161.2	155.0	148.8	141.4	142.6	141.4
67.5°	2529.1	816.2	173.7	181.1	172.4	160.0	152.6	143.9	134.0	138.9	137.7
70°	2503.0	663.6	160.0	176.1	176.1	161.2	148.8	137.7	126.5	136.4	132.7
72.5°	2300.9	498.6	134.0	158.8	173.7	161.2	141.4	127.8	117.8	124.0	116.6
75°	1889.1	338.6	106.7	126.5	162.5	162.5	135.2	117.8	105.4	101.7	99.2
77.5°	1178.3	210.9	83.1	93.0	136.4	161.2	129.0	105.4	88.1	85.6	83.1
80°	466.4	112.9	65.7	67.0	100.5	147.6	120.3	89.3	70.7	68.2	63.3
82.5°	106.7	57.1	45.9	44.7	62.0	120.3	109.2	70.7	54.6	54.6	45.9
85°	32.2	29.8	29.8	28.5	31.0	62.0	84.3	48.4	37.2	26.0	22.3
87.5°	8.7	12.4	11.2	9.9	9.9	8.7	27.3	12.4	7.4	3.7	2.5
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)