

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: P299880

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-SL3-7060-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

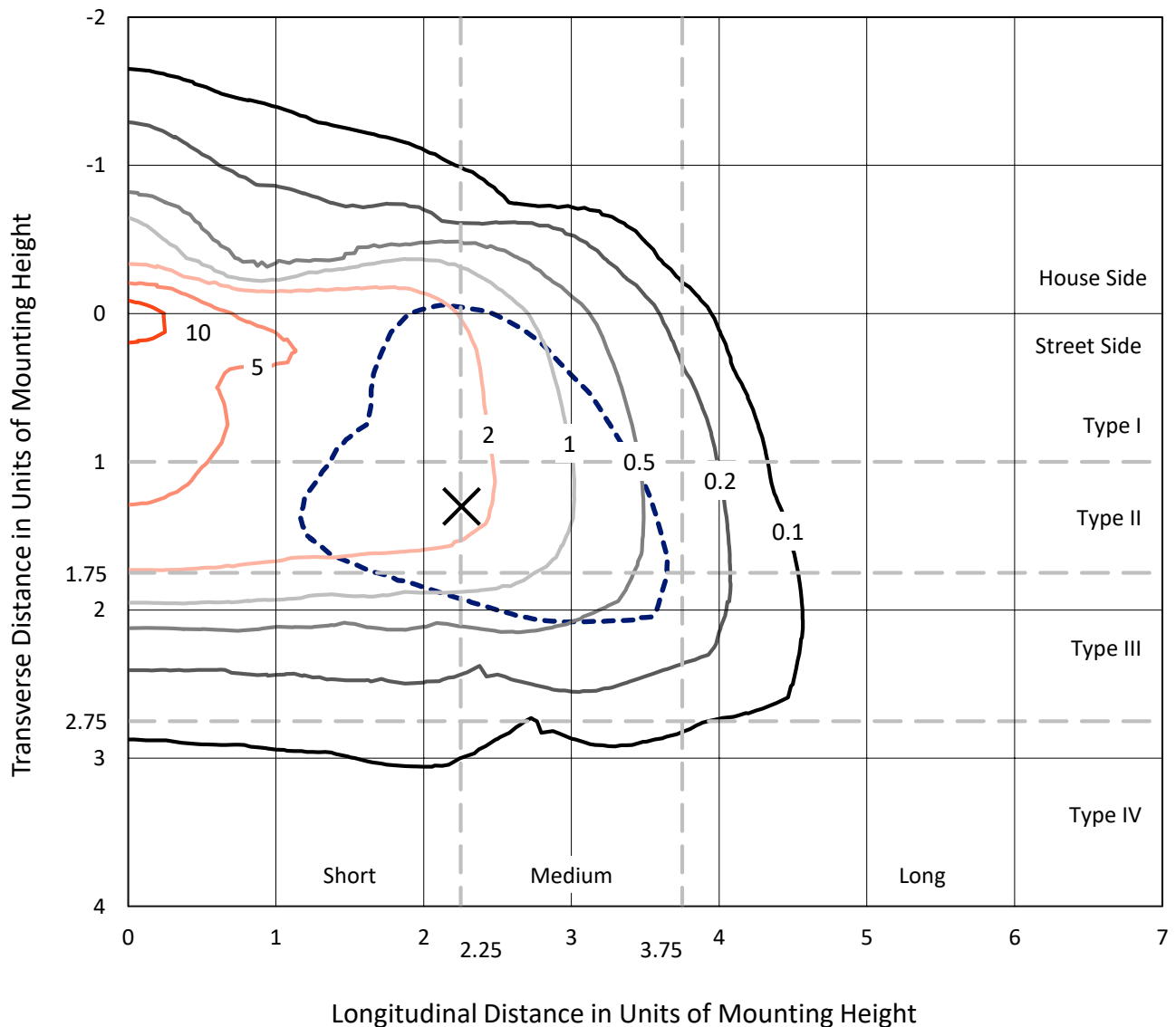
Lumens per Lamp: N/A  
Luminaire Lumens: 5018 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

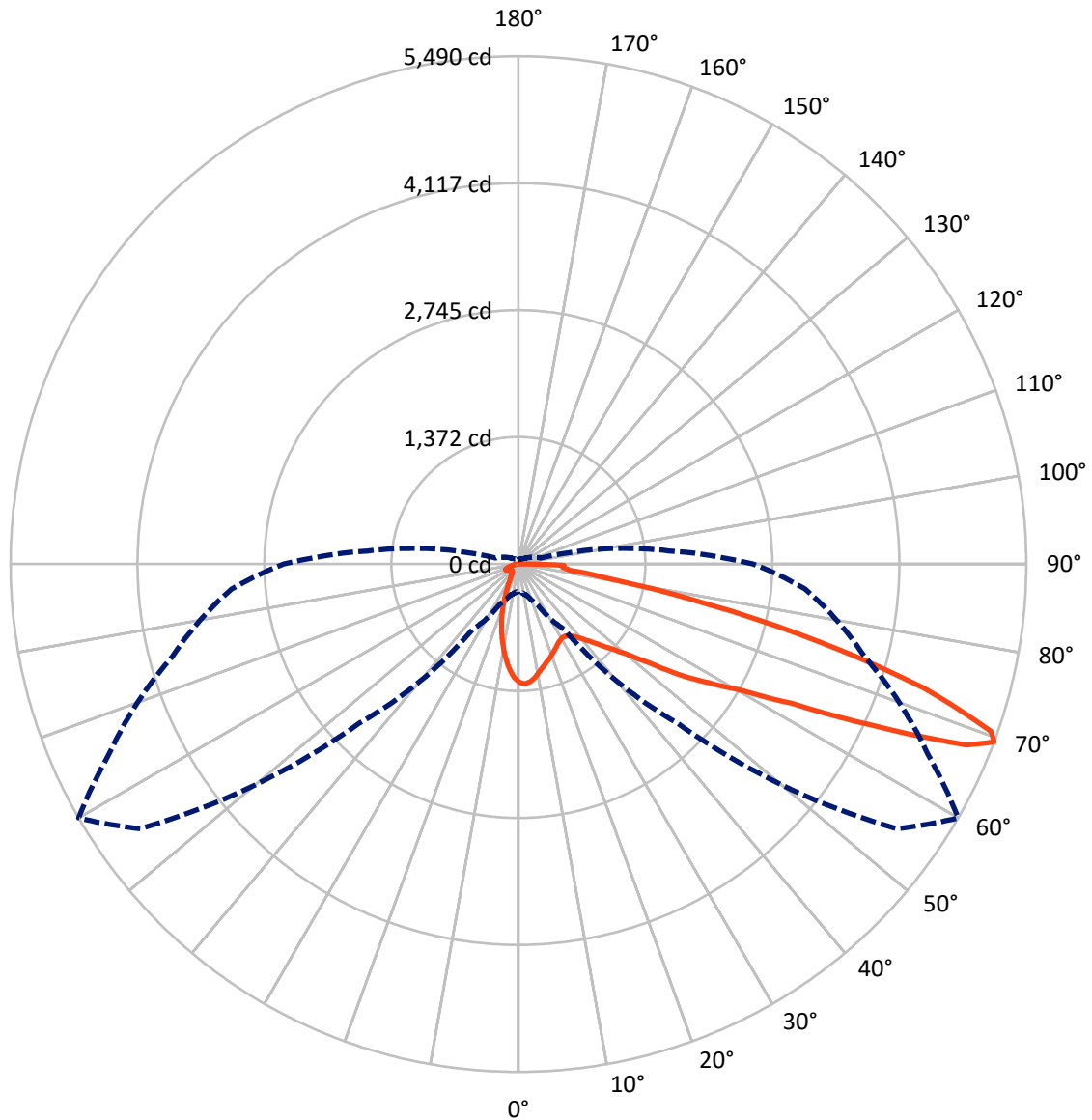
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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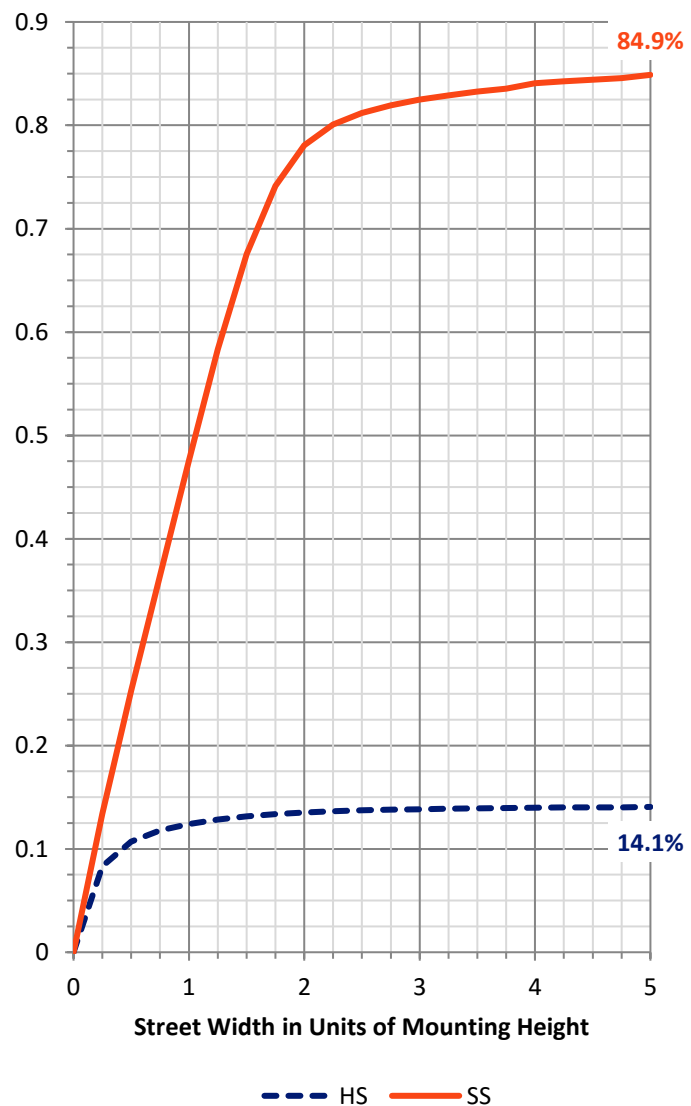
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	713.9	0.0	713.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	4304.1	0.0	4304.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	5018.0	0.0	5018.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	2.2
10°-20°	230.3	4.6
20°-30°	293.5	5.8
30°-40°	403.5	8.0
40°-50°	654.7	13.0
50°-60°	1050.0	20.9
60°-70°	1397.4	27.8
70°-80°	754.5	15.0
80°-90°	125.9	2.5
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°	5018.0	100.0
0°-180°	5018.0	100.0

**Coefficient of Utilization**



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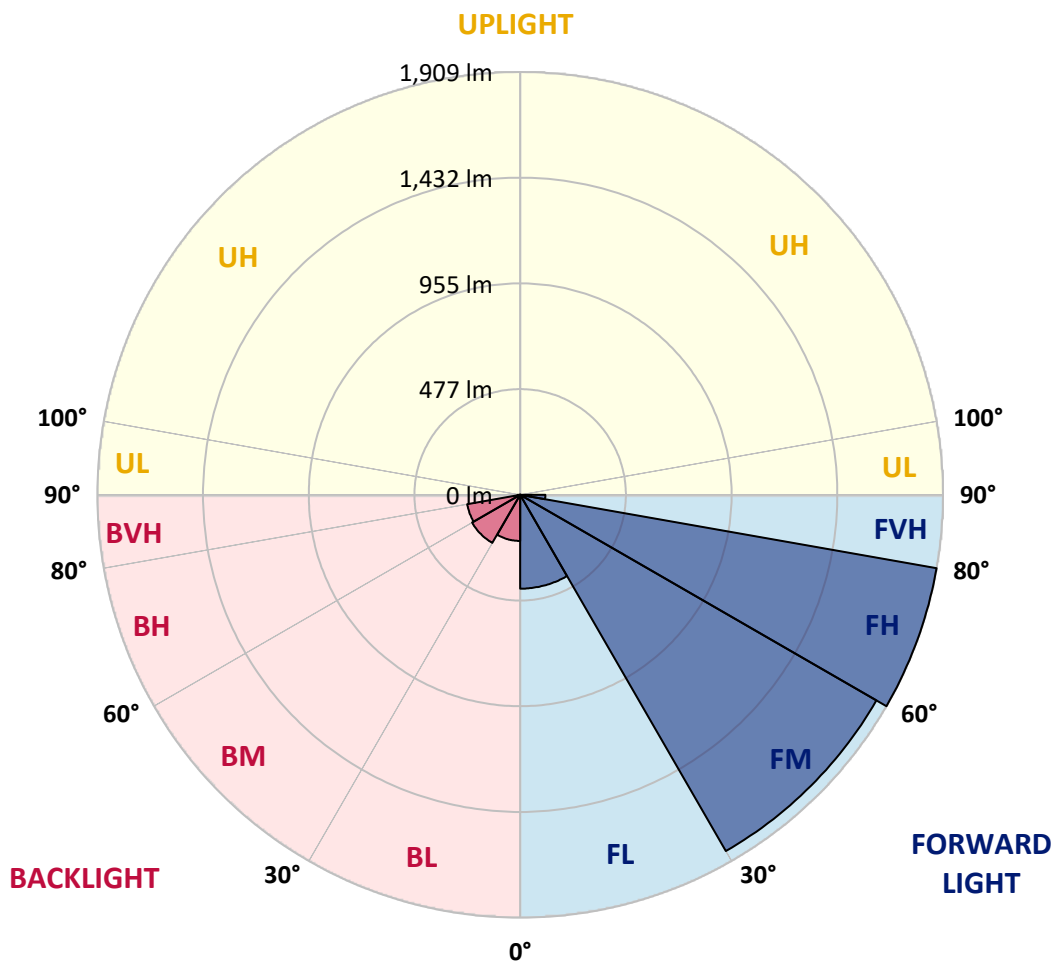
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.7	8.4			
FM (30°-60°)	1857.4	37.0			
FH (60°-80°)	1909.3	38.0			G2/5000
FVH (80°-90°)	113.8	2.3			G2/225
BL (0°-30°)	208.3	4.2	B1/500		
BM (30°-60°)	250.8	5.0	B1/1000		
BH (60°-80°)	242.7	4.8	B1/500		G1/500
BVH (80°-90°)	12.1	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7
2.5°	1304.8	1307.8	1306.5	1305.8	1308.0	1304.6	1297.6	1295.4	1292.0	1284.0	1270.4
5°	1255.9	1264.6	1264.1	1270.7	1281.6	1284.5	1281.3	1281.8	1275.5	1265.6	1243.0
7.5°	1171.3	1174.9	1176.9	1191.2	1211.0	1227.0	1240.6	1245.0	1242.1	1233.6	1204.5
10°	1084.0	1086.9	1091.5	1108.3	1133.5	1155.5	1181.2	1196.0	1202.3	1200.9	1168.4
12.5°	1009.1	1012.0	1018.1	1037.0	1067.0	1094.2	1131.5	1149.9	1165.0	1173.9	1139.0
15°	942.0	948.3	954.1	975.9	1009.6	1045.2	1087.4	1110.7	1133.9	1154.1	1113.1
17.5°	889.6	895.9	899.3	919.2	955.1	998.7	1048.1	1075.5	1104.6	1137.6	1087.4
20°	859.3	862.2	860.8	871.9	904.2	950.5	1009.1	1040.9	1076.0	1122.1	1061.7
22.5°	850.8	851.1	845.7	844.5	865.4	904.4	967.4	1006.0	1049.1	1111.9	1039.7
25°	871.4	870.7	856.2	844.3	846.5	869.2	927.2	972.0	1026.6	1109.7	1022.7
27.5°	917.2	919.4	897.9	875.6	853.5	852.8	896.6	943.9	1008.1	1119.6	1015.4
30°	981.5	985.1	962.1	933.7	892.3	858.1	884.8	927.2	996.8	1140.3	1014.2
32.5°	1051.8	1055.7	1038.2	1008.4	954.1	891.1	893.0	928.6	996.3	1169.1	1022.4
35°	1126.7	1131.0	1122.1	1096.9	1036.5	951.9	924.5	952.1	1012.0	1213.2	1044.5
37.5°	1210.3	1217.1	1219.5	1195.5	1131.0	1032.1	976.1	996.8	1047.7	1274.5	1085.0
40°	1330.8	1340.2	1339.5	1305.1	1239.4	1140.5	1055.9	1061.2	1103.2	1356.5	1149.7
42.5°	1561.5	1563.5	1503.1	1428.2	1358.7	1254.4	1149.9	1145.6	1179.8	1460.2	1245.0
45°	1855.1	1847.1	1712.8	1568.1	1483.2	1385.3	1272.4	1251.0	1277.0	1586.8	1364.2
47.5°	2098.7	2080.3	1910.6	1710.9	1615.1	1527.6	1416.1	1378.8	1393.1	1730.3	1518.4
50°	2183.3	2169.5	2028.9	1829.6	1740.0	1701.2	1593.1	1540.2	1544.1	1901.4	1699.0
52.5°	2165.1	2163.2	2069.4	1907.9	1856.8	1883.5	1843.7	1772.2	1734.4	2091.4	1893.9
55°	2122.2	2126.3	2092.4	1999.1	1990.4	2059.4	2171.2	2118.3	2000.8	2283.2	2095.3
57.5°	1973.1	1983.8	2058.5	2113.7	2205.4	2308.1	2434.9	2419.9	2287.5	2490.4	2334.8
60°	1589.7	1614.4	1814.6	2091.4	2426.7	2748.1	2804.8	2769.9	2583.3	2747.6	2651.1
62.5°	1113.8	1139.5	1377.6	1810.7	2390.3	3245.0	3466.1	3315.6	3007.9	3126.5	3060.5
65°	596.3	608.7	790.5	1256.4	2018.0	3347.6	4432.5	4203.5	3680.4	3593.6	3410.8
67.5°	328.9	335.7	405.3	634.4	1292.5	2947.8	5048.2	5221.3	4520.8	3904.6	3347.1
69°	297.4	303.7	349.3	480.4	864.9	2437.3	4988.1	5489.6	4889.2	3873.8	3111.5
70°	290.9	296.7	337.7	442.9	700.1	2009.0	4786.7	5421.0	4977.0	3763.5	2905.9
72.5°	261.8	268.1	307.8	397.8	598.2	1001.6	3791.6	4583.6	4518.6	3263.2	2204.1
75°	244.1	249.9	317.3	389.5	572.8	633.9	2499.6	3378.1	3321.6	2282.7	1188.5
77.5°	104.5	104.0	147.1	329.7	581.3	613.8	1343.1	2110.3	1925.4	975.7	341.3
80°	69.8	68.6	69.8	97.0	533.0	617.2	703.7	1071.2	809.1	248.7	168.2
82.5°	60.1	59.1	61.3	59.1	187.4	704.4	598.2	569.6	384.7	141.3	83.4
85°	40.5	38.8	52.8	53.1	88.5	625.9	673.9	481.2	311.2	83.9	41.2
87.5°	19.4	18.9	30.8	37.6	51.9	254.3	756.0	493.0	313.9	42.9	19.6
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°	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7	1278.7
2.5°	1266.3	1256.4	1246.7	1235.0	1222.9	1209.3	1202.5	1195.8	1194.1	1192.1	1185.3
5°	1231.4	1217.3	1193.1	1166.4	1138.3	1110.9	1090.1	1077.0	1067.0	1062.0	1053.0
7.5°	1186.3	1165.7	1123.3	1077.2	1030.0	986.8	949.5	926.0	903.7	893.2	881.4
10°	1143.4	1112.6	1046.7	978.8	910.9	845.7	784.4	741.0	702.5	680.9	665.6
12.5°	1106.6	1064.4	973.0	881.1	788.0	695.2	603.3	531.1	470.7	439.0	422.7
15°	1070.7	1019.8	902.9	786.3	666.8	540.6	419.8	337.9	288.0	268.1	261.3
17.5°	1038.2	973.0	832.6	690.8	541.8	389.1	282.2	237.1	217.9	211.4	209.2
20°	1003.1	925.7	759.7	591.0	411.4	272.0	220.3	200.5	192.7	190.8	189.8
22.5°	969.1	879.2	689.9	484.1	295.5	209.9	189.3	181.1	179.9	181.6	181.6
25°	940.3	837.5	614.5	372.3	216.9	176.7	169.4	167.5	172.1	178.4	179.6
27.5°	918.7	803.3	534.3	274.9	172.8	153.7	153.4	156.6	168.0	180.1	182.5
30°	903.9	770.8	448.4	198.3	145.0	135.3	139.1	145.9	162.7	179.9	184.5
32.5°	896.4	746.8	359.0	153.4	124.1	118.8	125.3	133.6	150.0	166.0	172.1
35°	902.2	729.1	274.6	128.0	109.6	105.4	112.2	120.2	129.9	136.7	141.3
37.5°	924.0	722.1	207.3	114.7	99.6	95.7	101.1	105.7	109.6	111.5	113.7
40°	971.1	729.6	166.0	107.9	94.1	89.2	91.4	93.1	95.5	97.4	98.4
42.5°	1040.4	752.2	148.8	105.2	91.1	84.1	83.6	84.4	87.5	91.1	91.9
45°	1137.3	791.9	147.6	106.9	89.7	80.0	77.8	78.8	83.6	89.2	90.2
47.5°	1261.2	852.5	157.3	112.0	90.9	77.8	74.2	75.4	81.4	89.0	90.2
50°	1411.3	937.1	173.6	119.5	96.2	78.3	73.0	73.7	80.0	88.2	89.4
52.5°	1588.5	1057.1	191.3	126.8	101.8	81.4	73.9	72.2	78.1	85.3	86.8
55°	1785.5	1211.0	209.4	133.3	104.7	85.3	75.9	70.3	74.4	80.5	81.7
57.5°	2027.4	1426.3	240.9	139.6	106.7	88.0	77.8	68.4	69.8	74.2	75.1
60°	2354.9	1730.7	296.5	150.0	111.0	89.0	77.6	66.7	65.2	67.6	68.1
62.5°	2747.4	2061.4	342.8	163.1	118.3	89.7	76.1	65.4	61.3	61.3	61.8
65°	2980.3	2149.9	317.1	174.0	124.4	89.0	74.4	64.2	58.4	55.8	56.0
67.5°	2782.8	1890.7	271.7	176.2	124.1	85.6	71.8	62.1	55.5	51.4	51.1
69°	2535.3	1631.4	251.4	170.4	118.3	81.2	68.4	59.6	53.3	49.0	48.7
70°	2335.8	1473.1	238.0	164.1	112.0	78.1	65.7	57.4	51.6	47.5	47.0
72.5°	1698.3	965.2	203.4	141.1	92.4	65.4	56.7	50.4	46.1	43.6	43.1
75°	848.6	460.3	165.1	114.4	70.8	52.4	46.5	42.2	40.0	39.5	39.3
77.5°	278.8	210.9	118.0	85.3	52.6	41.0	37.6	34.4	33.9	35.4	34.9
80°	153.2	122.7	74.9	56.5	35.9	30.1	29.6	27.9	28.6	31.0	30.5
82.5°	78.1	63.8	46.3	33.9	24.2	21.6	23.5	22.5	23.5	25.7	25.5
85°	38.5	34.9	29.3	20.6	16.0	13.8	16.7	17.5	17.9	19.6	19.6
87.5°	22.3	20.6	15.5	9.7	8.0	7.3	9.7	9.5	11.2	12.1	11.9
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)