

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: P647796

Luminaire Tested: **GALN-SA2A-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5637.6 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

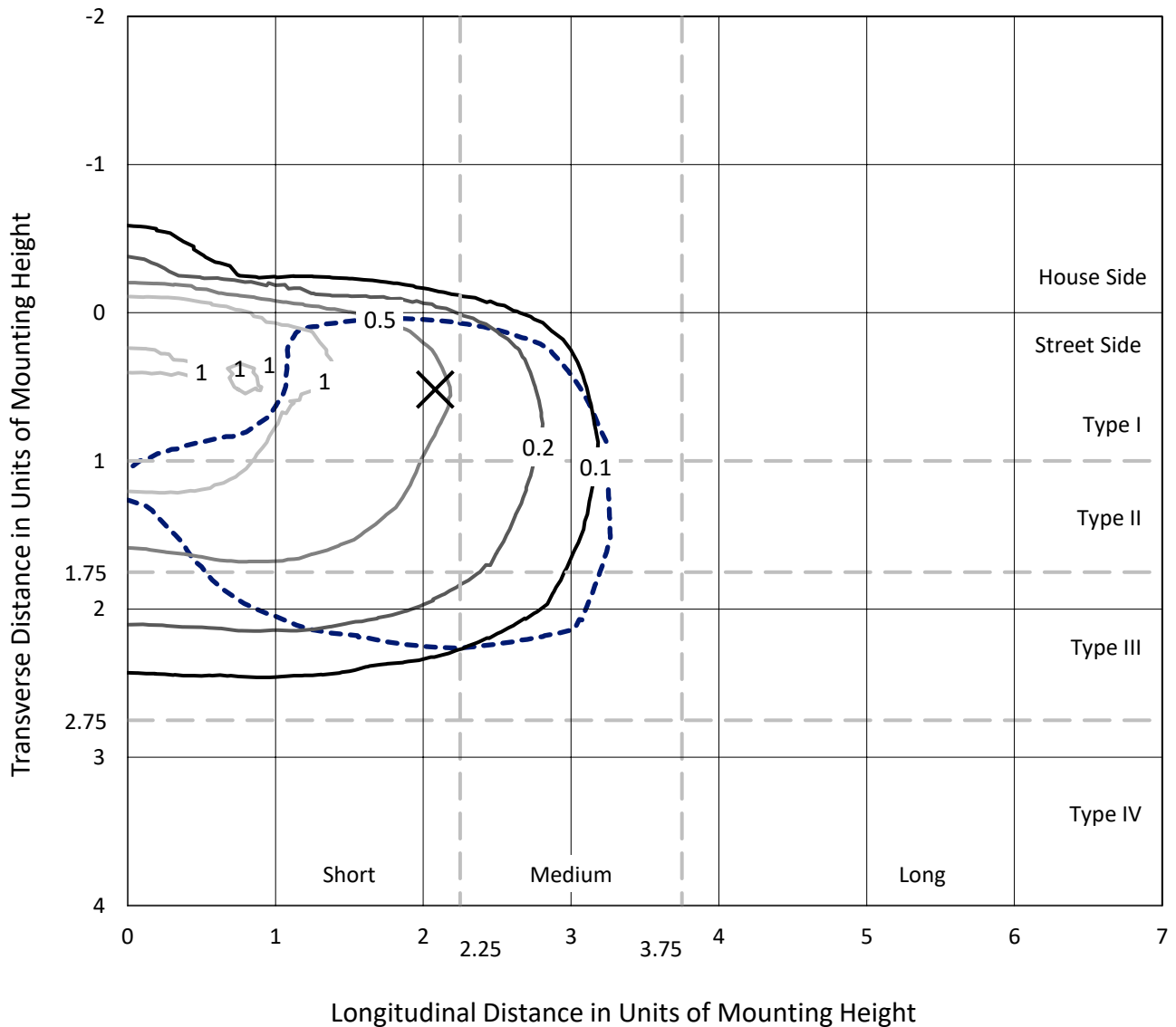
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

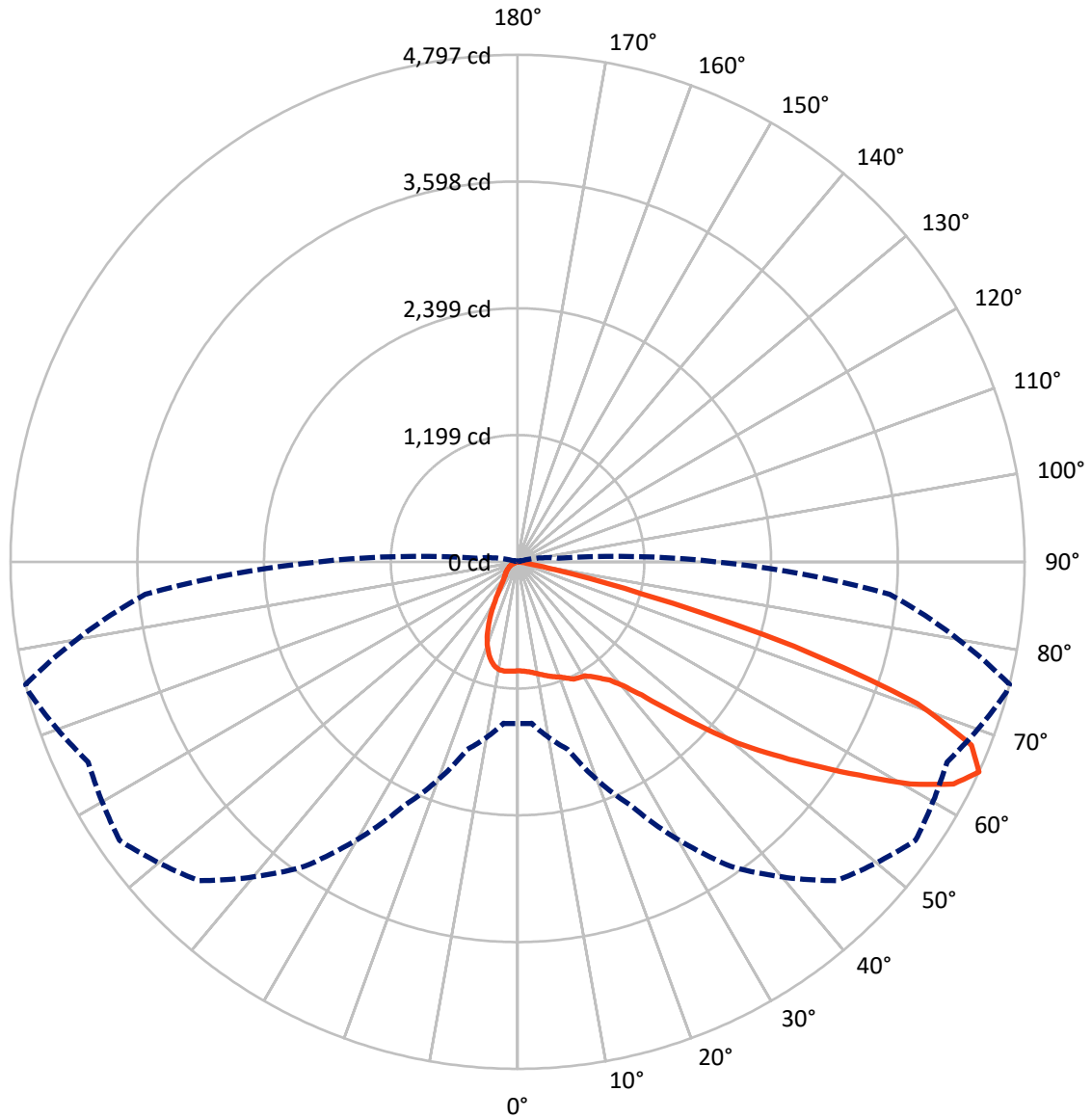
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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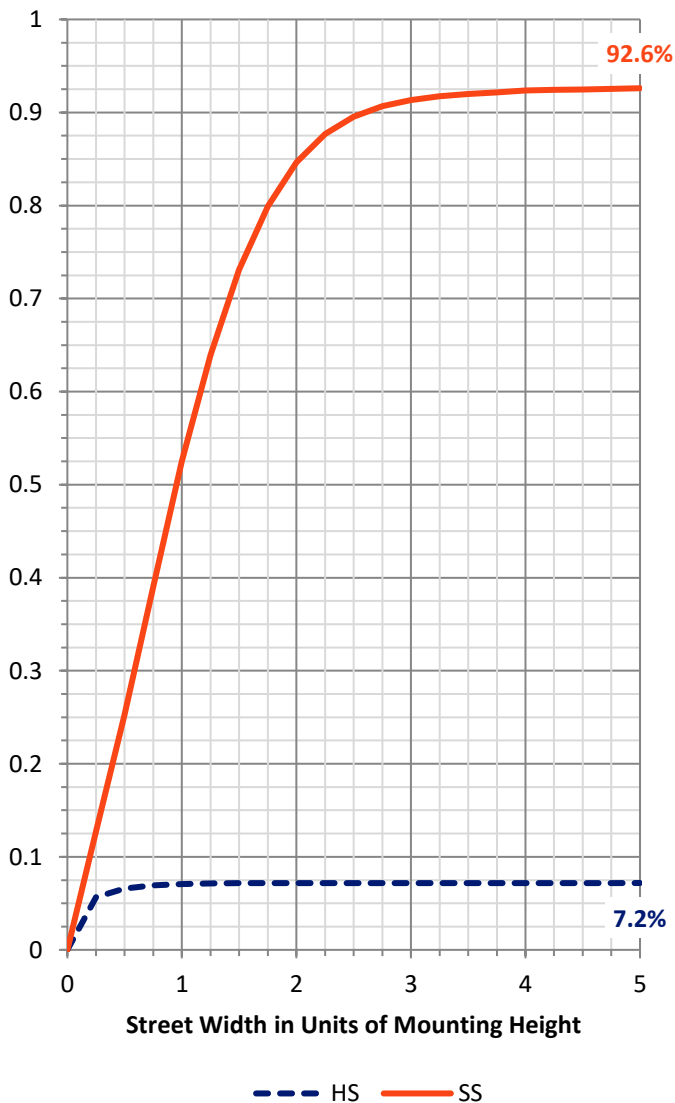
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	407.2	0.0	407.2
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5230.4	0.0	5230.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	5637.6	0.0	5637.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.0	1.5
10°-20°	189.2	3.4
20°-30°	304.8	5.4
30°-40°	530.0	9.4
40°-50°	875.8	15.5
50°-60°	1352.9	24.0
60°-70°	1652.1	29.3
70°-80°	627.0	11.1
80°-90°	20.9	0.4
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°	5637.6	100.0
0°-180°	5637.6	100.0

**Coefficient of Utilization**



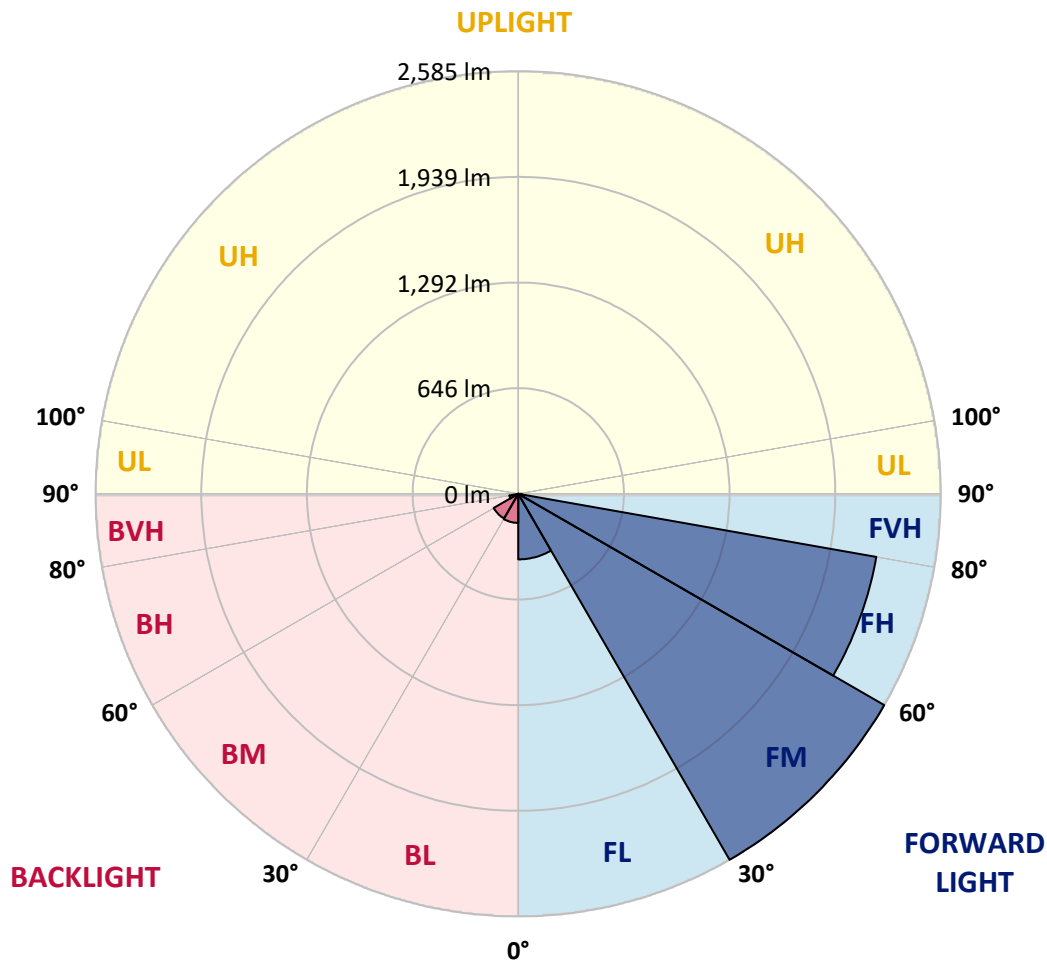
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.0	7.1			
FM (30°-60°)	2584.9	45.9			
FH (60°-80°)	2223.8	39.4			G2/5000
FVH (80°-90°)	20.6	0.4			G1/100
BL (0°-30°)	177.9	3.2	B1/500		
BM (30°-60°)	173.7	3.1	B0/220		
BH (60°-80°)	55.2	1.0	B0/110		G0/110
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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3
2.5°	985.6	986.0	988.3	994.3	1003.4	1011.0	1017.4	1027.7	1034.9	1035.7	1038.1
5°	917.4	912.7	917.4	932.9	946.9	968.0	993.9	1019.8	1042.9	1044.4	1055.6
7.5°	841.0	845.0	852.6	868.5	894.7	927.0	964.4	1010.6	1054.4	1058.4	1080.2
10°	763.4	772.2	784.5	808.8	845.4	887.2	938.2	1004.2	1072.7	1078.3	1116.1
12.5°	691.8	695.8	710.9	743.5	788.9	847.8	918.2	1000.7	1093.0	1099.7	1154.3
15°	636.8	642.1	655.1	684.6	735.2	810.8	901.9	999.4	1112.9	1122.4	1192.5
17.5°	626.5	629.7	635.2	655.1	699.4	781.4	887.2	999.0	1132.0	1143.6	1227.9
20°	669.1	666.3	660.7	658.7	683.0	758.6	876.5	1002.2	1150.3	1163.5	1265.3
22.5°	775.8	779.3	746.7	708.1	700.2	755.0	874.8	1017.4	1179.4	1194.9	1307.1
25°	1002.2	974.8	923.9	831.5	761.9	777.0	892.8	1053.2	1213.2	1230.3	1345.0
27.5°	1252.6	1244.3	1165.0	1013.0	883.2	823.1	924.6	1080.6	1224.4	1241.8	1366.4
30°	1498.6	1508.5	1417.8	1249.8	1059.6	908.7	954.5	1091.0	1234.3	1252.6	1393.9
32.5°	1726.7	1738.6	1659.0	1492.6	1267.4	1056.7	1005.8	1131.2	1276.1	1294.8	1439.7
35°	1906.1	1907.8	1847.6	1715.1	1494.2	1236.7	1116.9	1201.7	1332.6	1354.5	1488.2
37.5°	2071.0	2068.5	1998.1	1883.9	1683.3	1415.4	1256.6	1282.9	1397.1	1419.7	1558.3
40°	2193.2	2194.7	2172.0	2064.6	1859.6	1580.6	1367.2	1358.9	1505.3	1540.8	1660.2
42.5°	2274.8	2289.5	2300.6	2246.1	2081.3	1784.0	1537.2	1521.7	1693.2	1722.7	1804.3
45°	2340.8	2367.1	2422.8	2420.0	2294.3	2033.5	1770.4	1738.6	1959.5	1990.9	1987.8
47.5°	2389.0	2415.6	2508.0	2563.7	2494.5	2275.6	2063.8	2036.3	2277.5	2311.7	2190.4
50°	2413.7	2445.5	2563.3	2671.2	2650.8	2508.8	2398.2	2399.7	2661.7	2694.7	2425.2
52.5°	2356.0	2397.3	2592.7	2787.0	2826.4	2732.0	2711.4	2763.9	3003.5	3031.8	2637.4
55°	2171.7	2223.8	2552.6	2885.7	3029.8	2995.6	3067.2	3147.2	3377.3	3395.6	2855.1
57.5°	2055.1	2110.3	2434.0	2969.7	3274.2	3326.7	3440.2	3498.7	3762.9	3809.5	3105.1
60°	1956.7	2000.1	2336.5	2987.6	3522.6	3731.9	3842.2	3902.7	4239.0	4269.3	3380.1
62.5°	1793.1	1842.9	2171.7	2862.6	3647.5	4056.3	4284.8	4257.7	4607.2	4628.3	3548.9
65°	1530.1	1534.4	1837.3	2548.6	3518.6	4266.9	4595.7	4482.2	4783.1	4797.4	3535.7
67.5°	1141.9	1184.1	1413.4	2003.3	2972.1	4086.9	4696.4	4488.2	4672.1	4632.3	3255.1
70°	735.6	767.8	958.1	1389.1	2143.0	3410.7	4362.4	4180.5	4100.5	4012.2	2664.4
72.5°	339.5	380.9	569.2	793.6	1270.9	2429.6	3541.3	3396.4	2951.4	2733.3	1693.6
75°	148.1	158.4	281.0	418.7	595.9	1284.8	2334.8	2108.4	1333.0	1217.6	677.8
77.5°	90.4	97.1	147.3	224.5	234.0	489.6	1257.8	919.9	411.9	363.4	183.9
80°	61.3	68.8	107.0	117.4	80.0	136.6	472.1	245.5	83.2	79.6	39.4
82.5°	29.8	37.8	79.2	65.7	34.6	43.8	137.3	52.5	24.3	22.7	13.9
85°	4.4	7.6	44.6	43.0	15.5	10.3	24.3	13.2	8.4	8.0	6.3
87.5°	0.0	0.0	15.1	6.7	1.6	1.6	2.8	2.8	3.2	2.8	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°	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3	1031.3
2.5°	1039.3	1041.2	1033.7	1022.9	1011.4	999.9	983.5	968.8	960.0	965.2	952.5
5°	1058.0	1056.3	1036.5	1003.8	960.4	908.3	856.5	812.4	798.0	776.6	774.2
7.5°	1083.8	1079.4	1037.2	962.5	864.5	766.6	671.1	607.8	571.6	540.9	541.8
10°	1120.1	1107.3	1028.1	889.6	728.4	580.8	458.9	375.4	339.1	327.6	318.4
12.5°	1157.5	1132.8	1002.6	791.3	567.2	396.8	279.0	228.1	205.8	198.6	197.8
15°	1190.9	1151.9	958.1	673.1	412.3	253.5	190.3	173.5	170.8	171.2	170.8
17.5°	1223.9	1167.1	896.4	547.7	280.2	181.9	163.6	159.6	160.8	162.4	162.0
20°	1251.4	1170.2	817.5	418.0	198.3	159.6	153.6	152.8	154.0	155.3	155.3
22.5°	1281.2	1172.6	724.0	289.4	162.0	148.5	145.2	145.2	146.9	148.5	148.8
25°	1303.5	1159.5	612.1	207.8	142.9	137.7	136.2	136.6	138.1	138.9	138.5
27.5°	1307.1	1122.4	493.5	159.2	129.7	124.6	123.0	124.6	122.6	123.8	123.0
30°	1310.4	1075.5	373.3	134.1	117.8	109.9	107.5	105.1	103.5	101.5	101.1
32.5°	1320.3	1020.2	272.6	120.6	106.6	98.0	92.3	85.6	80.4	78.8	78.4
35°	1324.7	953.7	200.2	109.9	96.7	87.1	77.2	67.7	60.1	57.3	59.3
37.5°	1341.4	889.2	155.3	101.9	87.9	76.0	63.3	51.4	44.2	42.6	43.4
40°	1375.6	819.2	130.1	95.1	80.4	65.7	50.2	38.6	33.8	32.3	31.9
42.5°	1430.5	749.5	115.8	88.8	72.8	55.4	39.4	30.2	26.3	25.1	25.1
45°	1497.4	682.6	105.9	82.0	64.9	44.6	31.1	24.3	21.9	21.1	21.1
47.5°	1585.3	624.1	97.5	75.2	56.1	35.4	25.1	21.1	19.5	19.9	20.3
50°	1674.5	580.8	88.4	67.7	46.2	29.0	21.5	18.7	18.3	18.7	18.7
52.5°	1741.8	555.2	76.0	57.3	36.3	24.3	19.1	17.5	17.1	16.3	16.3
55°	1832.5	549.7	60.5	46.6	28.7	20.3	17.1	15.9	14.7	13.9	13.5
57.5°	1949.1	556.1	46.6	36.3	22.3	16.8	15.1	13.2	11.5	9.9	9.9
60°	2021.6	541.8	36.3	27.9	16.3	13.5	11.5	9.6	7.6	6.3	6.0
62.5°	1998.5	481.2	28.7	20.7	11.5	9.9	7.6	6.3	4.4	3.2	2.8
65°	1879.5	388.4	23.1	14.3	8.4	6.0	4.0	4.0	2.0	0.4	0.0
67.5°	1645.1	287.8	18.3	9.6	4.8	2.8	2.0	1.2	0.0	0.0	0.0
70°	1339.0	207.8	14.3	6.0	2.8	2.0	0.8	0.4	0.0	0.0	0.0
72.5°	850.2	119.0	11.1	3.6	2.0	0.8	0.0	0.0	0.0	0.0	0.0
75°	328.8	46.6	7.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	93.2	21.9	4.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.3	9.6	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.5	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.4	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)