

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: P529177

Luminaire Tested: **GALN-SA4B-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14888 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

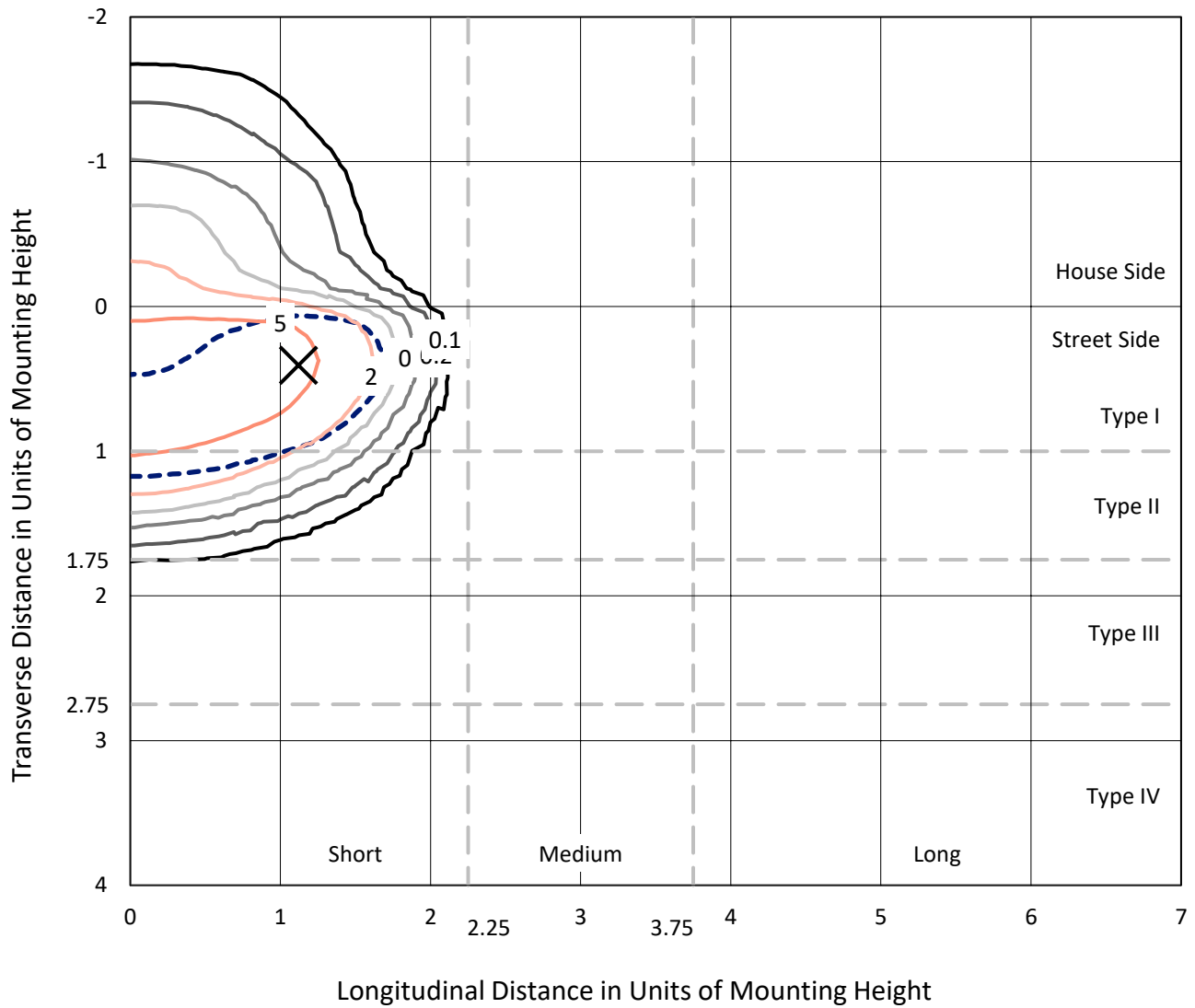
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

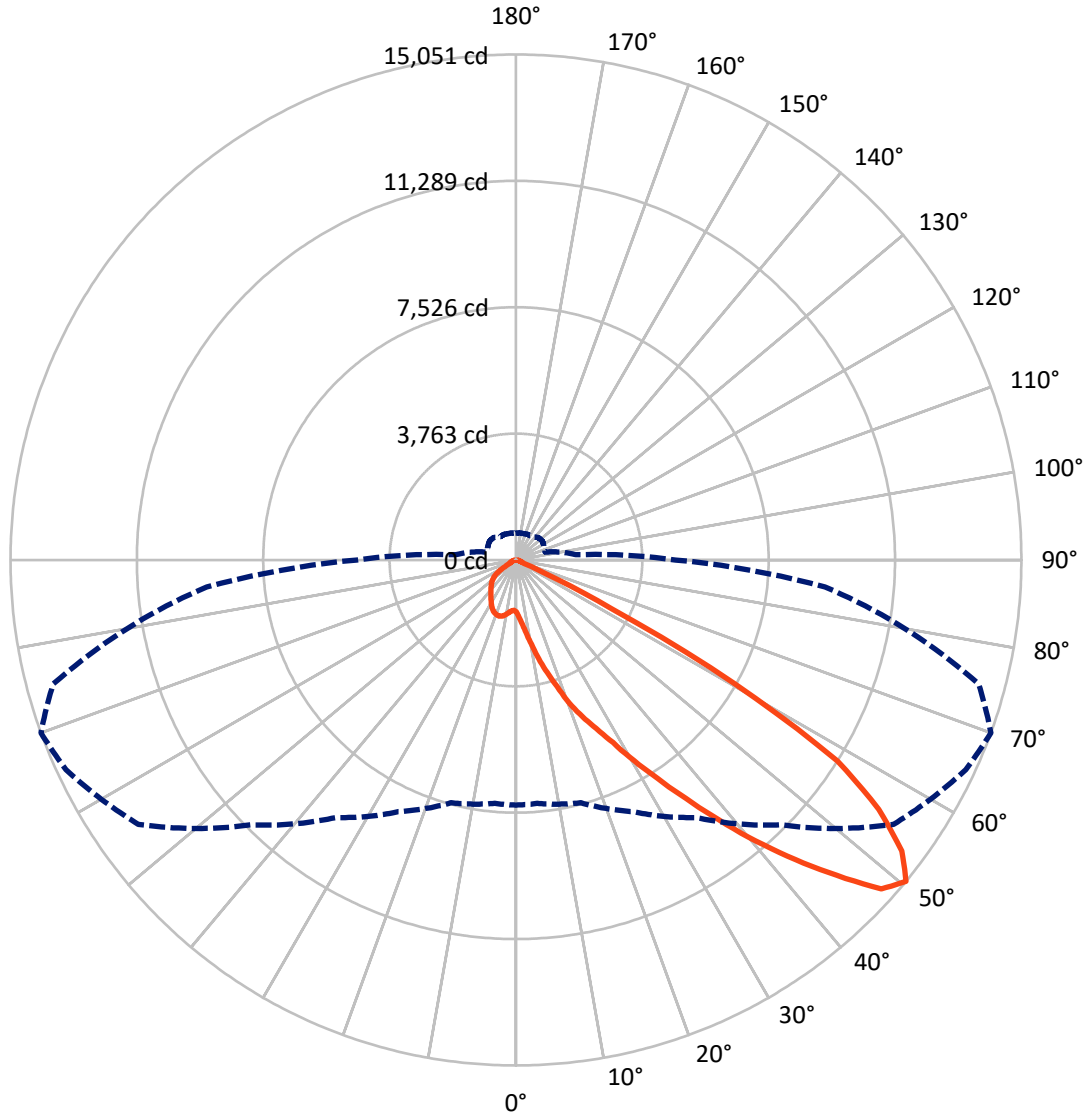
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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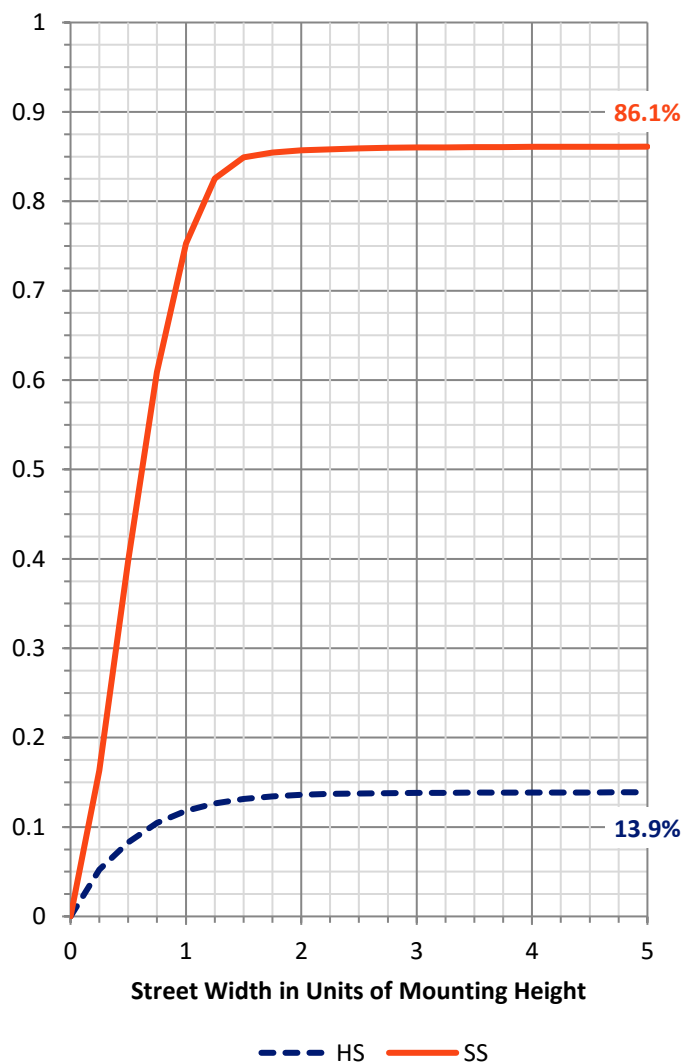
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.2	0.0	2079.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12808.8	0.0	12808.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	14888.0	0.0	14888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.3
10°-20°	867.4	5.8
20°-30°	1819.7	12.2
30°-40°	3136.6	21.1
40°-50°	4584.0	30.8
50°-60°	3570.2	24.0
60°-70°	604.9	4.1
70°-80°	83.1	0.6
80°-90°	21.5	0.1
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°	14888.0	100.0
0°-180°	14888.0	100.0

Coefficient of Utilization



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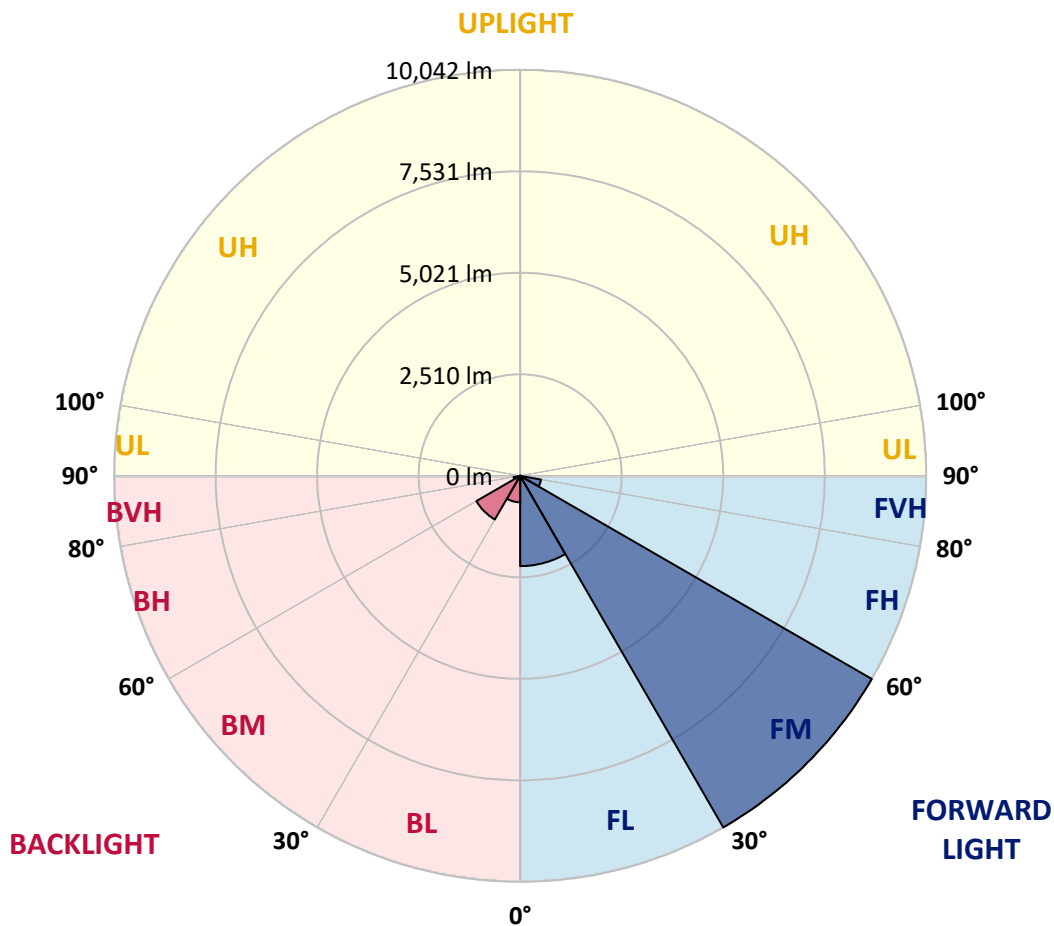
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.4	15.0			
FM (30°-60°)	10041.7	67.4			
FH (60°-80°)	523.8	3.5			G0/660
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	654.3	4.4	B2/1000		
BM (30°-60°)	1249.1	8.4	B2/2500		
BH (60°-80°)	164.2	1.1	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1
2.5°	2019.4	2004.7	1972.9	1914.2	1889.7	1830.9	1796.7	1730.6	1689.0	1642.5	1591.1
5°	2844.3	2768.4	2721.9	2655.8	2462.5	2342.5	2144.3	1975.4	1897.0	1811.4	1693.9
7.5°	3696.2	3647.2	3583.6	3441.6	3309.4	3059.7	2719.5	2347.4	2188.3	2041.5	1808.9
10°	4401.1	4264.0	4256.7	4151.4	4007.0	3708.4	3299.6	2837.0	2553.0	2337.6	1972.9
12.5°	4893.1	4768.3	4824.6	4812.3	4677.7	4403.6	3931.1	3319.2	3023.0	2687.7	2141.8
15°	5341.1	5289.7	5272.5	5257.8	5204.0	5000.8	4577.4	3906.7	3478.3	3074.4	2332.7
17.5°	5779.2	5647.0	5710.7	5722.9	5718.0	5534.4	5137.9	4464.8	3960.5	3483.2	2533.5
20°	6168.4	6180.7	6095.0	6077.8	6063.2	6055.8	5669.1	5018.0	4552.9	3911.6	2795.4
22.5°	6667.8	6582.1	6658.0	6609.0	6513.6	6454.8	6158.6	5507.5	5066.9	4428.0	3062.2
25°	7257.7	7326.2	7147.5	7127.9	7022.7	6819.5	6552.7	6055.8	5561.4	4907.8	3351.0
27.5°	7984.7	7864.7	7818.2	7710.5	7519.6	7433.9	7120.6	6621.3	6158.6	5412.0	3630.1
30°	8608.9	8577.0	8344.5	8217.2	8050.8	8048.3	7610.2	7387.4	6937.0	6202.7	4014.4
32.5°	9118.0	8978.5	8892.8	8804.7	8670.0	8706.8	8337.2	8219.7	7766.8	6937.0	4467.2
35°	9458.2	9357.9	9306.5	9171.8	9132.7	9296.7	9142.5	9093.5	8721.5	7970.0	4998.4
37.5°	9565.9	9597.8	9588.0	9419.1	9502.3	9945.3	10143.6	10016.3	9820.5	9059.2	5573.6
40°	9661.4	9683.4	9634.5	9832.7	10070.2	10574.4	11291.6	11081.1	11007.7	10163.2	6374.0
42.5°	9715.3	9698.1	9698.1	10040.8	10400.6	11414.0	12400.5	12260.9	12204.6	11338.1	7299.3
45°	9482.7	9316.3	9495.0	9960.0	10684.6	11827.7	13286.6	13479.9	13399.2	12735.8	8381.2
47.5°	8613.8	8716.6	8816.9	9438.7	10339.4	11700.4	13830.0	14488.4	14637.7	13910.8	9091.1
50°	7299.3	7277.3	7485.3	8268.6	9362.8	11152.1	13724.7	14779.7	15051.4	14263.2	9240.4
52.5°	5309.2	5470.8	5696.0	6474.4	7771.7	9732.4	12366.2	14028.2	14390.5	13830.0	9142.5
55°	3091.6	2912.9	3419.6	4078.0	5301.9	7340.9	10454.5	12434.7	13105.4	13041.8	8648.0
57.5°	1238.6	1199.4	1373.2	1850.5	2766.0	4550.4	7602.8	10217.0	11291.6	11945.2	7600.4
60°	543.4	531.2	624.2	753.9	1130.9	2097.8	4158.8	6354.4	7475.5	8346.9	5230.9
62.5°	391.6	386.7	433.3	479.8	597.3	913.0	1747.7	2560.4	3191.9	3855.3	2342.5
65°	315.8	328.0	359.8	384.3	440.6	506.7	616.8	712.3	873.9	905.7	516.5
67.5°	257.0	266.8	296.2	323.1	332.9	274.2	283.9	249.7	249.7	222.7	178.7
70°	188.5	190.9	225.2	257.0	205.6	110.2	193.4	193.4	173.8	166.4	151.8
72.5°	139.5	142.0	168.9	159.1	80.8	68.5	142.0	156.7	142.0	134.6	122.4
75°	102.8	105.3	88.1	36.7	34.3	44.1	83.2	107.7	102.8	100.4	93.0
77.5°	19.6	14.7	12.2	17.1	24.5	36.7	53.9	66.1	68.5	73.4	68.5
80°	2.4	2.4	7.3	14.7	26.9	39.2	56.3	63.6	66.1	68.5	63.6
82.5°	0.0	2.4	7.3	14.7	26.9	36.7	49.0	56.3	61.2	63.6	61.2
85°	0.0	2.4	4.9	12.2	22.0	26.9	24.5	17.1	14.7	17.1	12.2
87.5°	0.0	0.0	2.4	2.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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°	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1	1542.1
2.5°	1561.7	1551.9	1517.6	1480.9	1449.1	1463.8	1449.1	1436.8	1441.7	1436.8	1432.0
5°	1647.4	1603.3	1529.9	1498.0	1471.1	1468.7	1461.3	1458.9	1461.3	1461.3	1439.3
7.5°	1728.1	1657.1	1578.8	1544.6	1512.7	1515.2	1498.0	1498.0	1495.6	1483.4	1478.5
10°	1850.5	1755.1	1654.7	1593.5	1554.3	1547.0	1529.9	1512.7	1512.7	1512.7	1488.3
12.5°	1985.2	1865.2	1728.1	1657.1	1610.6	1573.9	1547.0	1542.1	1515.2	1510.3	1498.0
15°	2102.6	1950.9	1777.1	1679.2	1620.4	1571.5	1529.9	1502.9	1490.7	1483.4	1473.6
17.5°	2217.7	2024.3	1804.0	1679.2	1615.5	1559.2	1515.2	1490.7	1461.3	1466.2	1446.6
20°	2371.9	2102.6	1811.4	1647.4	1569.0	1515.2	1456.4	1444.2	1427.1	1412.4	1417.3
22.5°	2521.2	2158.9	1789.3	1608.2	1495.6	1432.0	1402.6	1387.9	1380.5	1368.3	1351.2
25°	2655.8	2220.1	1755.1	1537.2	1417.3	1370.8	1343.8	1341.4	1324.3	1324.3	1292.4
27.5°	2792.9	2242.2	1696.3	1454.0	1348.7	1321.8	1309.6	1304.7	1297.3	1280.2	1258.2
30°	2949.6	2249.5	1610.6	1368.3	1287.5	1258.2	1275.3	1287.5	1255.7	1223.9	1233.7
32.5°	3079.3	2232.4	1507.8	1287.5	1243.5	1228.8	1263.1	1275.3	1238.6	1204.3	1187.2
35°	3236.0	2190.8	1407.5	1223.9	1199.4	1228.8	1258.2	1258.2	1184.7	1143.1	1133.3
37.5°	3473.4	2144.3	1314.5	1170.0	1152.9	1214.1	1253.3	1226.3	1111.3	1059.9	1047.7
40°	3728.0	2114.9	1223.9	1116.2	1128.4	1189.6	1211.7	1128.4	1010.9	979.1	969.3
42.5°	4097.6	2056.1	1143.1	1069.7	1106.4	1155.4	1155.4	1006.0	962.0	944.8	942.4
45°	4557.8	2014.5	1072.1	1030.5	1074.6	1086.8	1047.7	942.4	910.6	905.7	908.1
47.5°	4783.0	1933.7	998.7	984.0	1015.8	1018.3	915.5	891.0	864.1	856.7	851.8
50°	4748.7	1789.3	903.2	922.8	966.9	942.4	834.7	839.6	815.1	812.7	800.4
52.5°	4508.8	1561.7	807.8	854.3	903.2	832.2	768.6	763.7	763.7	731.9	719.6
55°	3997.2	1258.2	692.7	751.5	810.2	700.1	682.9	678.0	665.8	636.4	629.1
57.5°	3165.0	922.8	521.4	585.0	687.8	594.8	592.4	570.3	538.5	516.5	516.5
60°	1882.3	531.2	328.0	357.4	455.3	482.2	536.1	526.3	472.4	438.2	428.4
62.5°	859.2	274.2	208.1	213.0	244.8	313.3	421.0	487.1	411.2	352.5	347.6
65°	288.8	203.2	171.3	164.0	168.9	188.5	252.1	345.1	328.0	271.7	261.9
67.5°	176.2	181.1	161.6	149.3	149.3	146.9	144.4	156.7	193.4	188.5	190.9
70°	151.8	166.4	149.3	134.6	129.7	122.4	102.8	85.7	73.4	85.7	90.6
72.5°	122.4	132.2	127.3	115.0	102.8	93.0	73.4	56.3	41.6	36.7	36.7
75°	90.6	97.9	102.8	88.1	78.3	66.1	53.9	36.7	22.0	14.7	14.7
77.5°	66.1	73.4	75.9	68.5	58.7	46.5	34.3	24.5	12.2	4.9	4.9
80°	56.3	66.1	73.4	68.5	61.2	44.1	31.8	17.1	9.8	2.4	2.4
82.5°	53.9	66.1	73.4	66.1	58.7	41.6	31.8	19.6	7.3	2.4	2.4
85°	12.2	17.1	22.0	26.9	31.8	31.8	24.5	14.7	7.3	2.4	2.4
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	2.4	2.4	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)