

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: P528454

Luminaire Tested: **GALN-SA3C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17067 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

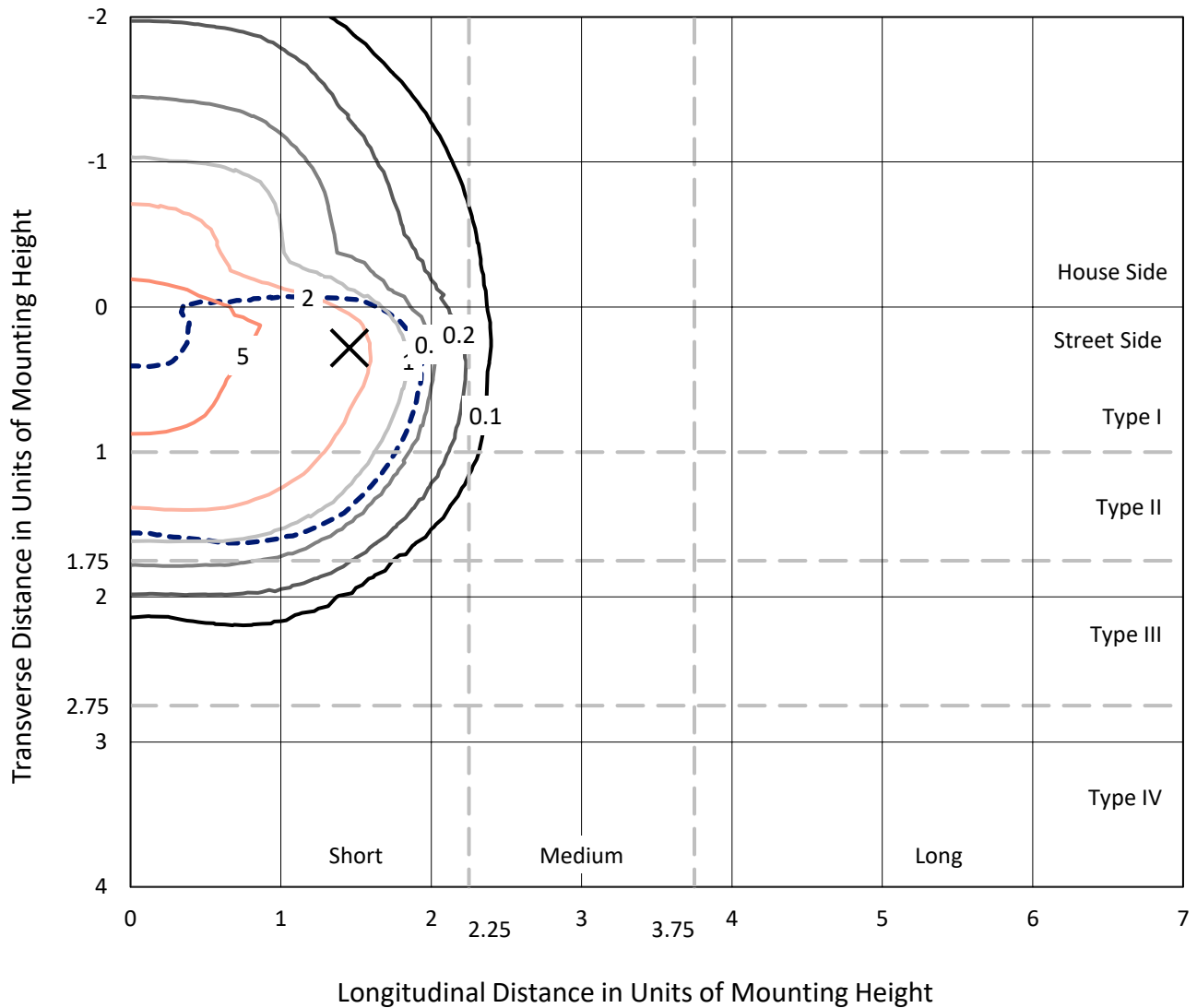
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

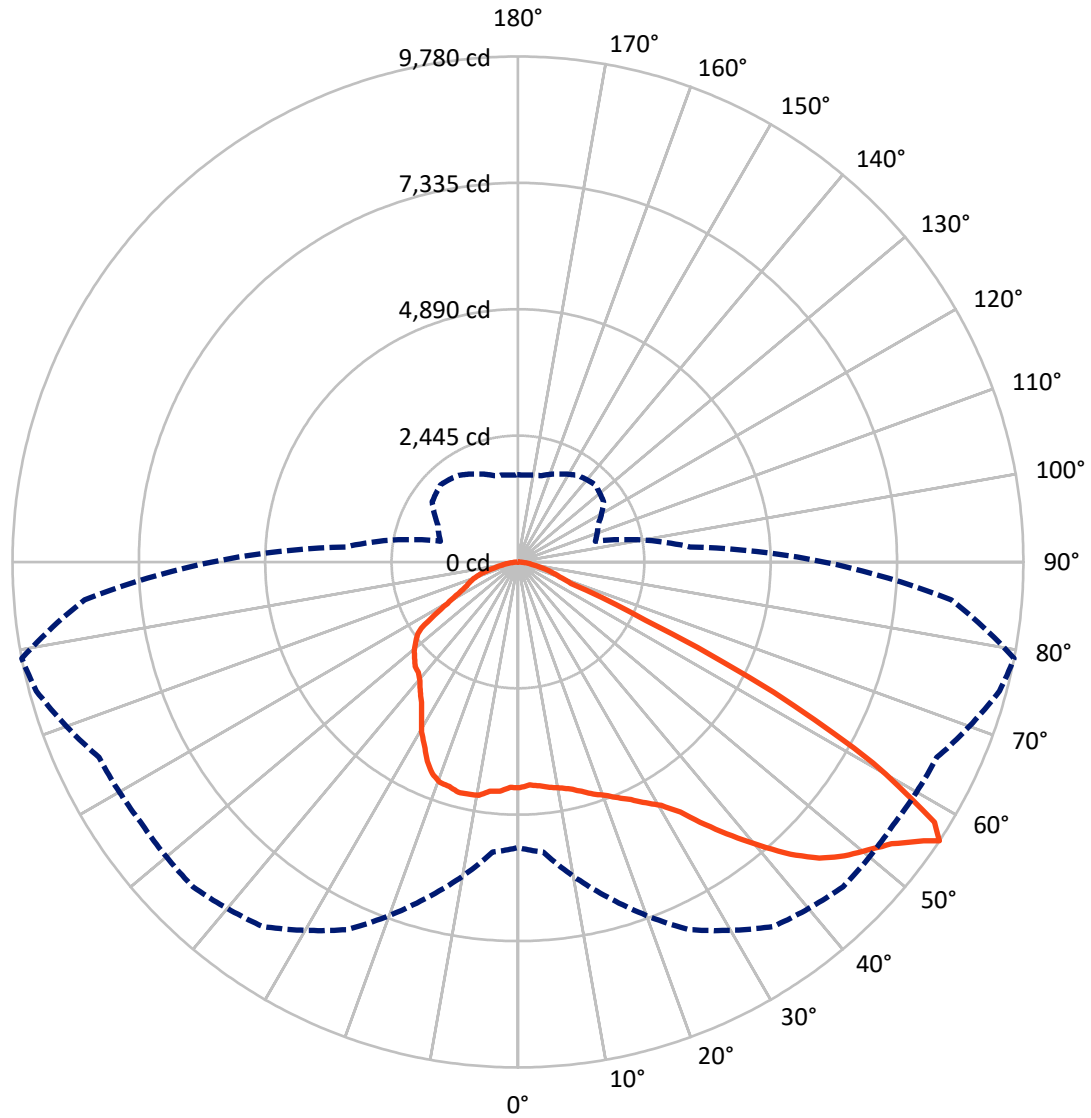
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5040.3	0.0	5040.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	12026.7	0.0	12026.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	17067.0	0.0	17067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.0	2.3
10°-20°	1086.5	6.4
20°-30°	1858.9	10.9
30°-40°	2848.9	16.7
40°-50°	3850.3	22.6
50°-60°	4422.2	25.9
60°-70°	2015.8	11.8
70°-80°	497.0	2.9
80°-90°	90.3	0.5
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°	17067.0	100.0
0°-180°	17067.0	100.0

Coefficient of Utilization



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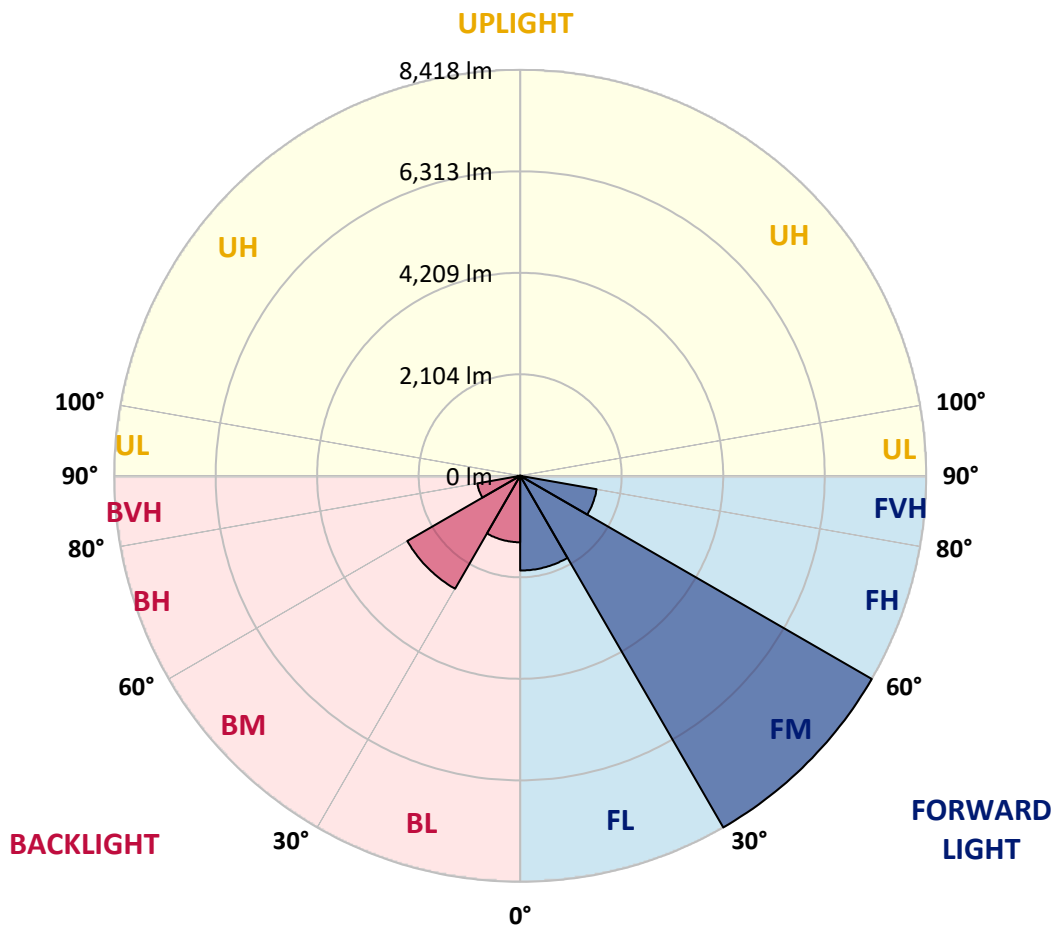
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.7	11.5			
FM (30°-60°)	8418.0	49.3			
FH (60°-80°)	1609.0	9.4			G1/1800
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	1378.7	8.1	B3/2500		
BM (30°-60°)	2703.5	15.8	B3/5000		
BH (60°-80°)	903.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	54.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8
2.5°	4154.2	4143.5	4169.1	4188.2	4211.6	4241.3	4256.2	4264.7	4339.1	4320.0	4377.4
5°	4064.9	4037.2	4056.4	4071.3	4111.7	4147.8	4188.2	4252.0	4320.0	4349.8	4419.9
7.5°	3986.2	3971.3	3967.1	3977.7	4033.0	4079.8	4149.9	4243.5	4354.0	4402.9	4443.3
10°	3856.5	3835.3	3867.2	3937.3	3952.2	4050.0	4130.8	4264.7	4360.4	4445.4	4564.5
12.5°	3799.1	3777.9	3784.3	3824.6	3928.8	4022.4	4118.0	4269.0	4470.9	4505.0	4664.4
15°	3890.5	3869.3	3875.7	3865.0	3965.0	4013.9	4164.8	4354.0	4547.5	4604.9	4775.0
17.5°	4098.9	4101.0	4073.4	4050.0	4026.6	4130.8	4235.0	4405.0	4577.2	4721.8	4849.4
20°	4496.5	4426.3	4371.0	4239.2	4203.1	4247.7	4379.5	4543.2	4698.4	4817.5	4962.0
22.5°	4802.6	4809.0	4730.3	4513.5	4434.8	4453.9	4566.6	4700.5	4870.6	4955.7	5121.5
25°	5246.9	5202.3	5117.2	4945.0	4768.6	4783.5	4866.4	4987.6	5034.3	5093.9	5274.6
27.5°	5653.0	5665.7	5497.8	5336.2	5117.2	5074.7	5223.5	5244.8	5166.1	5278.8	5340.5
30°	6065.4	6054.8	5944.2	5755.0	5540.3	5548.8	5614.7	5510.5	5402.1	5463.8	5506.3
32.5°	6492.8	6371.6	6367.3	6197.2	6033.5	5954.9	5874.1	5925.1	5757.2	5769.9	5729.5
35°	6835.0	6852.0	6754.2	6633.1	6552.3	6414.1	6193.0	6284.4	6252.5	6237.6	6063.3
37.5°	7083.8	7017.9	7066.8	7026.4	6949.8	6777.6	6548.0	6635.2	6650.1	6722.4	6520.4
40°	7287.9	7260.2	7389.9	7411.2	7358.0	6986.0	6573.5	6832.9	7056.1	7213.5	6973.2
42.5°	7385.7	7445.2	7581.3	7745.0	7625.9	7228.3	6705.4	6983.9	7481.3	7730.1	7402.7
45°	7517.5	7440.9	7642.9	7942.7	7944.8	7432.4	6832.9	7187.9	7813.0	8174.4	7696.1
47.5°	7383.5	7421.8	7630.2	8010.7	8108.5	7647.2	7177.3	7477.1	8178.7	8499.7	7968.2
50°	7083.8	7160.3	7540.9	7936.3	8231.8	7874.6	7572.8	7789.6	8516.7	8761.2	8012.8
52.5°	6771.3	6813.8	7409.1	7993.7	8287.1	8168.0	8102.1	8221.2	8929.1	9056.7	8068.1
55°	5920.9	6122.8	6973.2	7968.2	8557.1	8697.4	8646.4	8820.7	9396.8	9524.4	8370.0
56°	5527.6	5633.9	6711.7	7849.1	8610.2	8890.9	8865.3	8944.0	9645.6	9779.5	8416.8
57.5°	4800.5	4809.0	5723.1	7321.9	8410.4	8948.3	8922.8	8984.4	9596.7	9505.3	8006.5
60°	3004.0	3135.8	3894.8	5631.7	7151.8	8302.0	8446.5	7951.2	8091.5	7898.0	6229.1
62.5°	1556.2	1537.1	2040.9	3293.1	4747.3	5944.2	6078.2	6054.8	5837.9	5555.2	4069.1
65°	776.0	780.2	1067.2	1630.6	2432.1	3112.4	3486.6	3527.0	2950.9	2714.9	1930.4
67.5°	563.4	584.6	767.5	997.1	1145.9	1282.0	1571.1	1541.3	1167.2	1109.8	1029.0
70°	438.0	457.1	622.9	761.1	690.9	690.9	752.6	778.1	831.3	854.6	882.3
72.5°	318.9	333.8	476.2	525.1	452.8	486.9	563.4	622.9	678.2	686.7	718.6
75°	219.0	231.7	312.5	289.1	272.1	335.9	412.4	467.7	508.1	529.4	548.5
77.5°	142.4	146.7	178.6	150.9	174.3	216.9	267.9	314.6	355.0	372.0	376.3
80°	63.8	70.2	76.5	95.7	121.2	155.2	191.3	229.6	255.1	261.5	274.3
82.5°	36.1	36.1	46.8	68.0	89.3	112.7	138.2	165.8	195.6	202.0	199.8
85°	19.1	19.1	27.6	40.4	55.3	65.9	63.8	65.9	70.2	80.8	78.7
87.5°	6.4	6.4	8.5	8.5	10.6	12.8	10.6	14.9	19.1	19.1	19.1
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°	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8	4366.8
2.5°	4360.4	4379.5	4354.0	4409.3	4409.3	4398.7	4345.5	4362.5	4375.3	4375.3	4385.9
5°	4443.3	4436.9	4453.9	4388.0	4347.6	4332.8	4245.6	4203.1	4166.9	4164.8	4132.9
7.5°	4490.1	4473.1	4466.7	4417.8	4239.2	4130.8	3943.7	3835.3	3811.9	3729.0	3760.9
10°	4564.5	4596.4	4564.5	4298.7	4050.0	3801.3	3618.4	3450.5	3384.6	3331.4	3299.5
12.5°	4717.6	4702.7	4517.7	4158.4	3809.8	3514.3	3242.1	3065.7	2999.8	2953.0	2948.7
15°	4847.2	4772.8	4490.1	3937.3	3435.6	3120.9	2897.7	2772.3	2742.5	2746.8	2765.9
17.5°	4891.9	4840.9	4345.5	3707.7	3157.1	2787.2	2683.0	2663.9	2691.5	2723.4	2731.9
20°	4962.0	4881.3	4286.0	3395.2	2812.7	2578.8	2572.4	2640.5	2691.5	2738.3	2744.6
22.5°	5108.7	4904.6	4092.5	3099.7	2576.7	2517.2	2578.8	2636.2	2714.9	2753.1	2719.1
25°	5151.3	4853.6	3820.4	2744.6	2427.9	2478.9	2544.8	2623.5	2678.7	2700.0	2714.9
27.5°	5187.4	4775.0	3452.6	2508.7	2381.1	2476.8	2544.8	2610.7	2640.5	2659.6	2676.6
30°	5289.4	4751.6	3133.7	2351.3	2351.3	2434.3	2521.4	2538.4	2578.8	2602.2	2632.0
32.5°	5340.5	4590.0	2806.3	2251.4	2321.6	2455.5	2461.9	2493.8	2495.9	2515.0	2483.1
35°	5474.4	4475.2	2502.3	2179.1	2334.3	2434.3	2466.1	2447.0	2342.8	2291.8	2302.4
37.5°	5572.2	4417.8	2283.3	2170.6	2336.5	2457.6	2474.6	2330.1	2221.7	2136.6	2157.9
40°	5835.8	4275.4	2117.5	2155.7	2355.6	2483.1	2436.4	2279.1	2083.5	1996.3	1981.4
42.5°	6037.8	4173.3	2013.3	2138.7	2370.5	2519.3	2417.2	2177.0	1977.2	1896.4	1917.6
45°	6271.7	4149.9	1958.0	2143.0	2396.0	2538.4	2393.9	2098.3	1885.7	1853.9	1847.5
47.5°	6354.6	3982.0	1898.5	2106.8	2389.6	2532.0	2315.2	2038.8	1851.7	1856.0	1873.0
50°	6216.4	3809.8	1853.9	2032.4	2347.1	2474.6	2191.9	1960.2	1832.6	1885.7	1915.5
52.5°	6039.9	3633.3	1762.4	1932.5	2259.9	2385.4	2134.5	1955.9	1813.5	1796.5	1802.8
55°	6093.1	3488.7	1634.9	1796.5	2119.6	2219.5	2070.7	1915.5	1766.7	1702.9	1724.2
56°	5920.9	3339.9	1552.0	1711.4	2023.9	2113.2	2038.8	1879.4	1728.4	1685.9	1685.9
57.5°	5434.0	2840.3	1443.5	1575.4	1822.0	1928.3	1977.2	1858.1	1685.9	1611.5	1613.6
60°	4007.5	2019.7	1294.7	1388.3	1509.4	1594.5	1822.0	1798.6	1579.6	1528.6	1509.4
62.5°	2470.4	1475.4	1188.4	1224.6	1286.2	1356.4	1590.2	1628.5	1466.9	1411.7	1398.9
65°	1384.0	1128.9	1107.6	1122.5	1152.3	1188.4	1320.2	1405.3	1294.7	1209.7	1205.4
67.5°	1012.0	1009.8	1026.8	1039.6	1052.4	1052.4	1084.3	1118.3	1103.4	1035.4	1029.0
70°	899.3	905.7	918.4	920.6	924.8	909.9	884.4	873.8	890.8	848.3	839.8
72.5°	742.0	763.2	778.1	780.2	756.9	737.7	703.7	667.6	654.8	646.3	644.2
75°	569.8	584.6	591.0	588.9	580.4	552.8	512.4	476.2	452.8	427.3	440.1
77.5°	384.8	406.1	416.7	416.7	403.9	361.4	342.3	314.6	291.3	263.6	267.9
80°	270.0	284.9	301.9	299.8	278.5	257.2	229.6	204.1	185.0	163.7	161.6
82.5°	202.0	210.5	219.0	214.7	199.8	178.6	159.4	136.1	114.8	99.9	99.9
85°	72.3	78.7	95.7	99.9	108.4	108.4	91.4	76.5	61.7	51.0	51.0
87.5°	21.3	21.3	23.4	23.4	21.3	23.4	19.1	21.3	23.4	14.9	14.9
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)