

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: P530034

Luminaire Tested: **GALN-SA5B-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19989 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

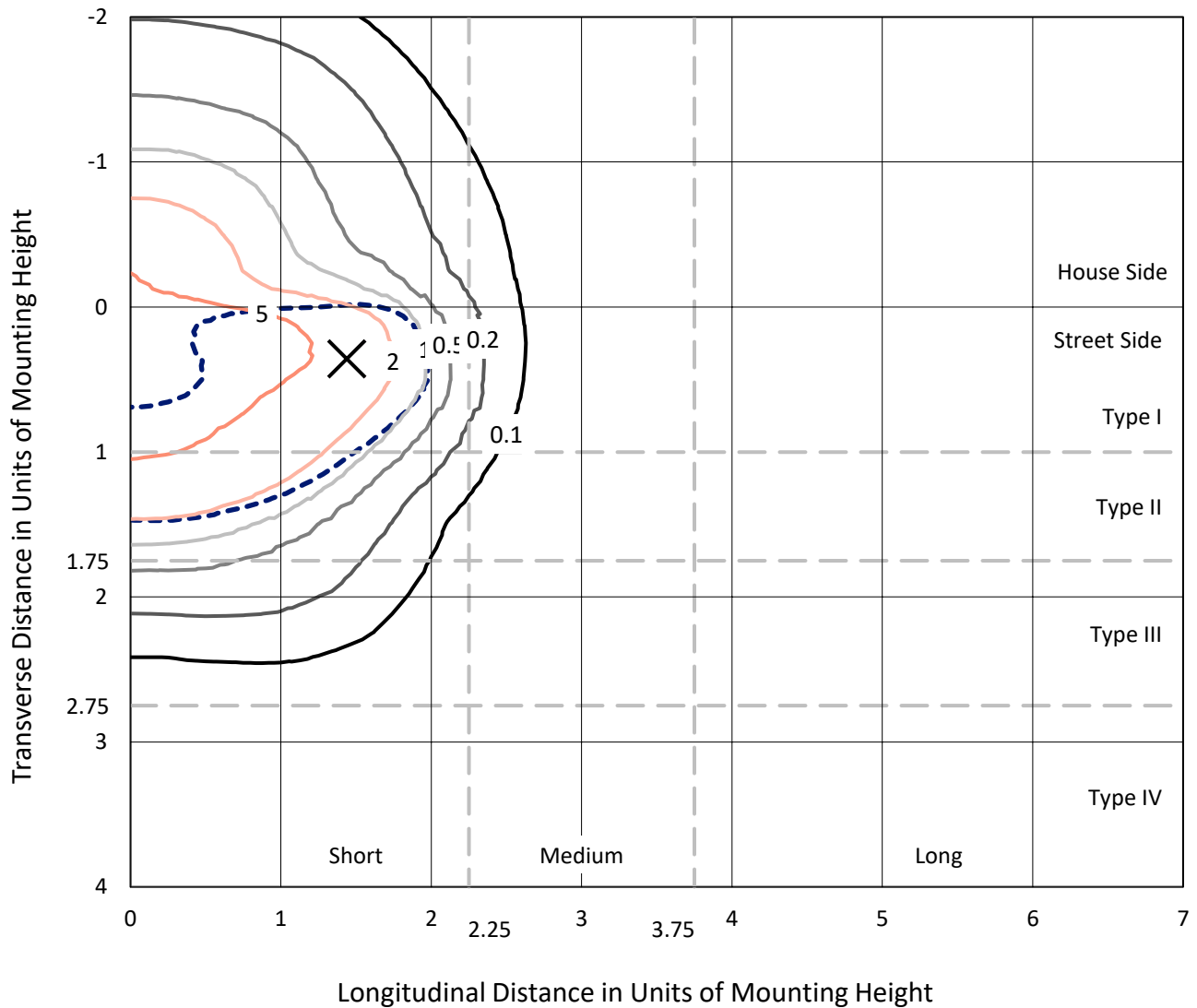
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

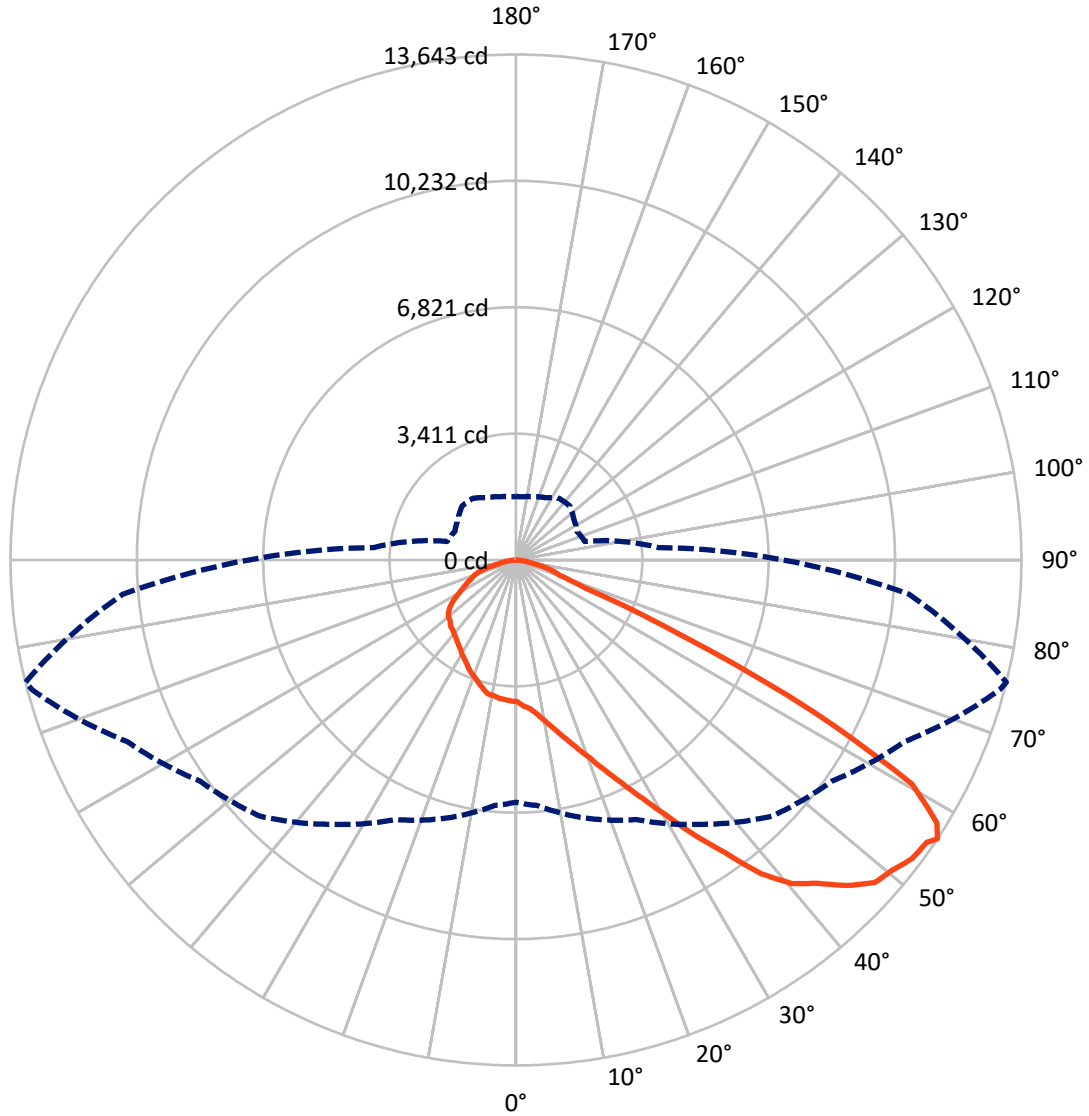
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5374.4	0.0	5374.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	14614.6	0.0	14614.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	19989.0	0.0	19989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	1.9
10°-20°	1191.5	6.0
20°-30°	2083.7	10.4
30°-40°	3262.5	16.3
40°-50°	4746.0	23.7
50°-60°	5216.2	26.1
60°-70°	2328.3	11.6
70°-80°	672.5	3.4
80°-90°	109.1	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°	19989.0	100.0
0°-180°	19989.0	100.0

Coefficient of Utilization



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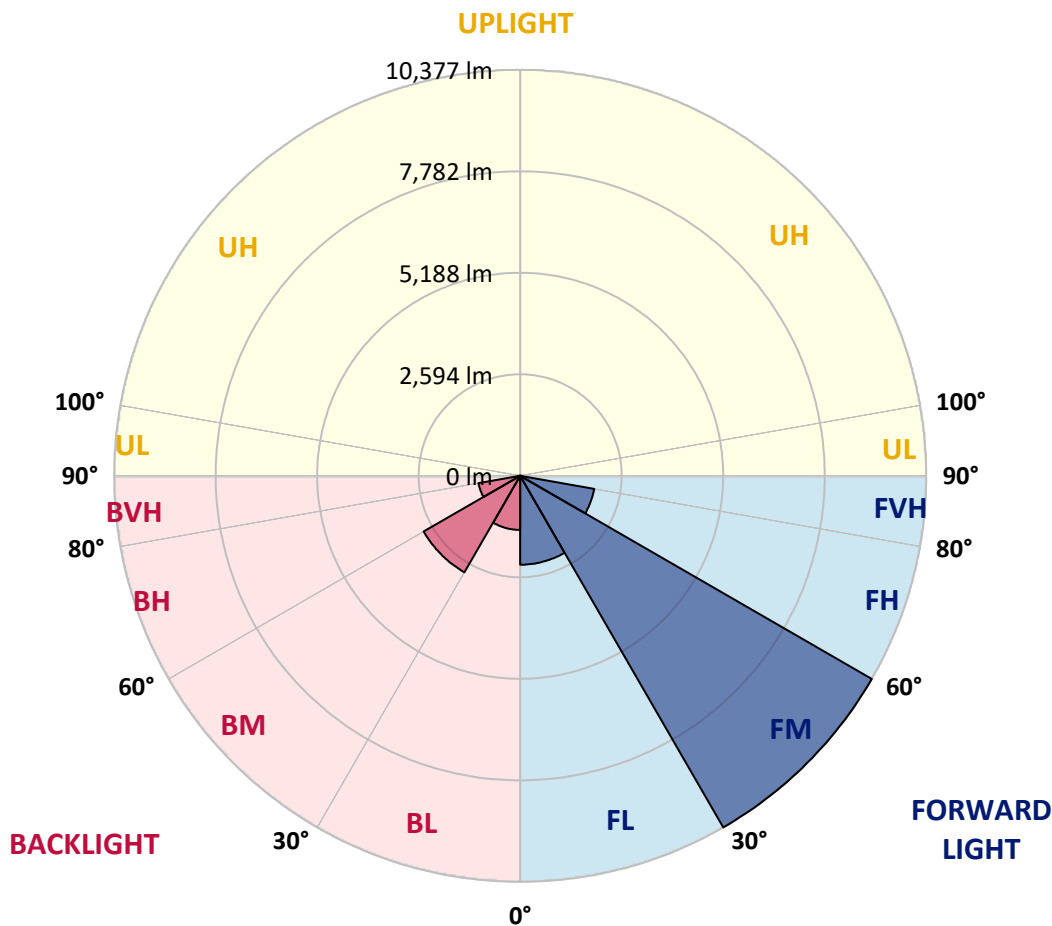
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2271.5	11.4			
FM (30°-60°)	10376.7	51.9			
FH (60°-80°)	1919.4	9.6			G2/5000
FVH (80°-90°)	47.0	0.2			G1/100
BL (0°-30°)	1382.9	6.9	B3/2500		
BM (30°-60°)	2848.0	14.2	B3/5000		
BH (60°-80°)	1081.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	62.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	4213.3	4145.9	4140.8	4122.6	4133.0	4086.4	4037.1	3972.3	3905.0	3946.4	3848.0
5°	4508.7	4418.0	4454.3	4392.1	4399.9	4337.7	4236.6	4161.5	4078.6	4029.3	3959.4
7.5°	4612.4	4620.1	4646.1	4635.7	4583.9	4583.9	4516.5	4384.3	4239.2	4210.7	4094.1
10°	4752.3	4754.9	4726.4	4734.2	4806.7	4773.0	4713.4	4656.4	4469.9	4436.2	4228.9
12.5°	4801.5	4754.9	4801.5	4843.0	4928.5	4975.1	4962.2	4920.7	4721.2	4697.9	4394.7
15°	4809.3	4780.8	4819.7	4913.0	4988.1	5185.0	5283.5	5255.0	4990.7	4993.3	4581.3
17.5°	4773.0	4811.9	4827.4	4907.8	5081.4	5265.4	5550.4	5589.3	5371.6	5337.9	4817.1
20°	4822.3	4793.8	4814.5	4887.0	5117.7	5405.3	5778.4	6034.9	5729.2	5705.9	5060.6
22.5°	5011.4	4972.5	4967.4	5014.0	5179.8	5477.8	6019.4	6480.6	6164.5	6177.5	5363.8
25°	5159.1	5179.8	5161.7	5159.1	5262.8	5586.7	6338.1	7011.8	6755.3	6680.2	5721.4
27.5°	5413.1	5462.3	5426.0	5475.2	5451.9	5749.9	6566.1	7600.0	7392.7	7291.7	6045.3
30°	5765.5	5791.4	5757.7	5757.7	5687.7	5977.9	6773.4	8214.2	8128.7	7991.3	6426.2
32.5°	6229.3	6268.2	6200.8	6161.9	6151.6	6317.4	7146.6	8820.5	8965.6	8849.0	6931.5
35°	6843.4	6820.1	6739.8	6703.5	6563.6	6838.2	7701.1	9517.5	9898.5	9691.2	7543.0
37.5°	7385.0	7348.7	7343.5	7141.4	7175.1	7400.5	8172.7	10046.2	10802.8	10743.2	8188.3
40°	7890.3	7923.9	7978.4	7864.3	7812.5	8061.3	8722.0	10450.4	11505.0	11481.7	8685.8
42.5°	8431.8	8400.7	8496.6	8400.7	8323.0	8675.4	9318.0	10730.2	12121.7	11930.0	9206.6
45°	9217.0	9118.5	9152.2	9160.0	9103.0	9232.5	9564.2	10932.4	12554.5	12533.7	9587.5
47.5°	9872.5	9875.1	9818.1	9774.1	9600.5	9730.0	9838.9	11059.3	13052.0	13018.3	9735.2
50°	10116.1	10082.4	10248.3	10344.1	10354.5	10090.2	10053.9	11129.3	13313.7	13166.0	9882.9
52.5°	9240.3	9271.4	9533.1	10103.2	10432.2	10460.7	10305.3	11274.4	13419.9	13388.8	10002.1
55°	7436.8	7587.1	8017.2	8675.4	9455.4	10313.0	10577.4	11424.7	13476.9	13451.0	10530.7
56°	6537.6	6654.2	7214.0	7729.6	8709.1	9776.7	10406.3	11585.3	13521.0	13642.8	10655.1
57.5°	5262.8	5397.5	5799.1	6384.8	7540.4	8755.7	9934.7	11388.4	13350.0	13396.6	10745.8
60°	3290.8	3303.8	3785.8	4171.9	4985.5	6172.3	7581.9	9908.8	12354.9	12287.6	9652.3
62.5°	2158.5	2161.1	2599.0	2915.1	3285.7	3557.7	4462.1	6571.3	9115.9	8996.7	6871.9
65°	1515.9	1549.5	1889.0	2311.4	2461.7	2319.1	2290.6	3464.5	5091.7	4920.7	3692.5
67.5°	1109.0	1111.6	1412.2	1865.7	2083.3	1764.6	1432.9	1692.1	2016.0	2010.8	1710.2
70°	733.3	764.4	995.0	1394.1	1642.8	1417.4	1171.2	1210.1	1282.7	1282.7	1272.3
72.5°	427.6	456.1	608.9	883.6	922.5	886.2	927.7	1036.5	1083.1	1080.5	1067.6
75°	243.6	256.5	290.2	368.0	458.6	541.6	681.5	785.1	831.8	860.3	826.6
77.5°	142.5	150.3	171.0	209.9	238.4	292.8	370.5	443.1	505.3	497.5	502.7
80°	75.1	75.1	95.9	124.4	165.8	207.3	246.2	287.6	321.3	329.1	336.9
82.5°	44.1	46.6	62.2	90.7	119.2	147.7	189.2	217.7	248.8	251.3	256.5
85°	23.3	25.9	38.9	59.6	80.3	90.7	93.3	88.1	95.9	90.7	103.6
87.5°	7.8	7.8	13.0	10.4	10.4	13.0	15.5	15.5	20.7	20.7	20.7
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°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3845.4	3845.4	3801.3	3718.4	3705.4	3671.8	3640.7	3638.1	3614.7	3594.0	3583.7
5°	3917.9	3837.6	3772.8	3697.7	3609.6	3568.1	3521.5	3469.6	3448.9	3469.6	3467.1
7.5°	4000.8	3933.5	3739.1	3599.2	3498.1	3456.7	3404.9	3350.4	3355.6	3355.6	3319.4
10°	4081.2	3990.5	3679.5	3500.7	3353.0	3321.9	3293.4	3314.2	3340.1	3345.3	3321.9
12.5°	4215.9	4011.2	3651.0	3402.3	3309.0	3241.6	3259.8	3316.8	3371.2	3355.6	3373.8
15°	4317.0	4029.3	3521.5	3301.2	3184.6	3215.7	3280.5	3319.4	3410.0	3399.7	3417.8
17.5°	4415.4	4039.7	3394.5	3166.5	3117.2	3202.7	3252.0	3363.4	3391.9	3454.1	3477.4
20°	4617.6	4060.4	3264.9	3083.5	3068.0	3166.5	3252.0	3303.8	3366.0	3420.4	3420.4
22.5°	4721.2	4050.1	3179.4	2974.7	3024.0	3086.1	3163.9	3252.0	3252.0	3303.8	3306.4
25°	4850.8	4008.6	3044.7	2922.9	2959.2	3018.8	3106.9	3075.8	3109.5	3109.5	3150.9
27.5°	4998.5	3920.5	2928.1	2829.6	2902.2	2966.9	2979.9	2959.2	2920.3	2915.1	2899.6
30°	5117.7	3811.7	2842.6	2798.5	2858.1	2894.4	2852.9	2808.9	2741.5	2736.3	2700.0
32.5°	5280.9	3676.9	2736.3	2720.8	2788.2	2790.7	2777.8	2710.4	2611.9	2570.5	2529.0
35°	5555.6	3599.2	2656.0	2679.3	2700.0	2692.3	2669.0	2596.4	2497.9	2479.8	2464.2
37.5°	5757.7	3542.2	2573.1	2601.6	2619.7	2630.1	2560.1	2479.8	2482.4	2446.1	2435.7
40°	5985.7	3505.9	2505.7	2518.7	2521.3	2554.9	2469.4	2430.6	2448.7	2425.4	2440.9
42.5°	6278.5	3516.3	2435.7	2425.4	2474.6	2461.7	2420.2	2368.4	2378.7	2308.8	2319.1
45°	6434.0	3586.2	2394.3	2347.6	2402.1	2399.5	2345.1	2295.8	2233.6	2098.9	2104.1
47.5°	6537.6	3604.4	2295.8	2264.7	2321.7	2355.4	2293.2	2179.2	2091.1	1995.2	1971.9
50°	6643.9	3638.1	2249.2	2184.4	2207.7	2288.0	2210.3	2101.5	2016.0	1930.5	1943.4
52.5°	6737.2	3702.9	2158.5	2062.6	2104.1	2192.2	2150.7	2018.6	1925.3	1855.3	1834.6
55°	7151.8	3848.0	2005.6	1881.2	1979.7	2091.1	2067.8	1907.1	1806.1	1769.8	1764.6
56°	7216.5	3853.1	1925.3	1819.0	1909.7	2057.4	2028.9	1857.9	1767.2	1710.2	1712.8
57.5°	7226.9	3791.0	1811.3	1762.0	1839.8	2008.2	1971.9	1819.0	1694.7	1642.8	1627.3
60°	6358.9	2959.2	1668.7	1637.7	1728.3	1857.9	1844.9	1712.8	1572.9	1513.3	1541.8
62.5°	4335.1	2168.8	1557.3	1552.1	1598.8	1725.8	1692.1	1572.9	1456.3	1417.4	1399.3
65°	2523.8	1645.4	1448.5	1427.8	1466.6	1534.0	1557.3	1432.9	1311.2	1285.2	1277.5
67.5°	1490.0	1360.4	1308.6	1274.9	1261.9	1303.4	1321.5	1249.0	1127.2	1090.9	1122.0
70°	1246.4	1210.1	1212.7	1155.7	1124.6	1096.1	1080.5	1015.8	914.7	868.1	855.1
72.5°	1075.4	1059.8	1049.4	997.6	969.1	904.3	837.0	772.2	697.0	658.2	660.8
75°	821.4	816.2	821.4	795.5	746.3	694.4	632.3	549.3	492.3	443.1	453.5
77.5°	489.7	505.3	513.1	502.7	482.0	435.3	396.5	342.0	287.6	248.8	243.6
80°	336.9	349.8	362.8	349.8	329.1	295.4	253.9	212.5	173.6	152.9	147.7
82.5°	256.5	269.5	277.3	264.3	238.4	202.1	173.6	145.1	114.0	93.3	88.1
85°	93.3	106.2	103.6	124.4	134.7	129.6	111.4	85.5	64.8	46.6	44.1
87.5°	25.9	23.3	25.9	25.9	25.9	23.3	20.7	20.7	20.7	13.0	10.4
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)