

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: P530260

Luminaire Tested: **GALN-SA5C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24957 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

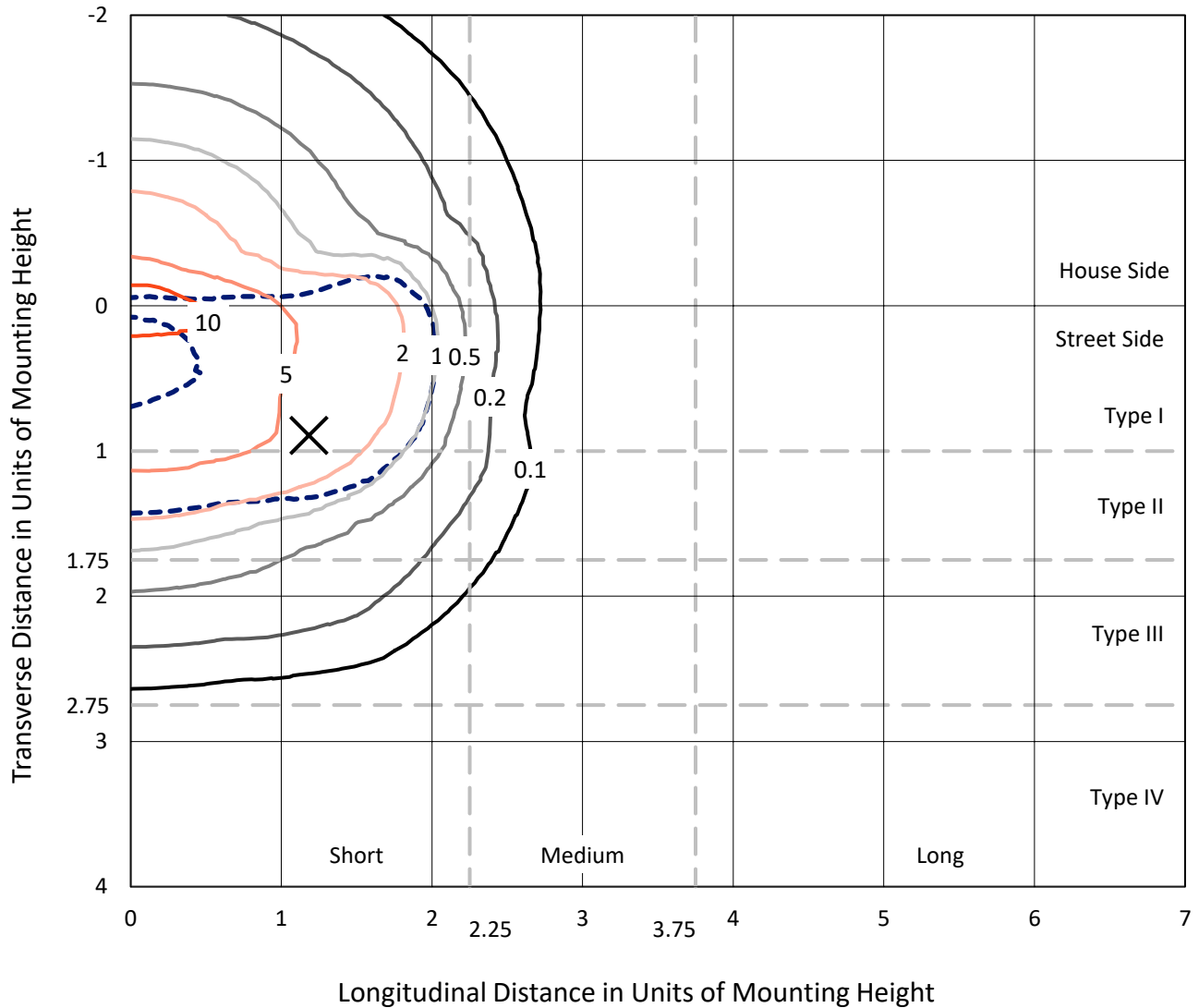
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

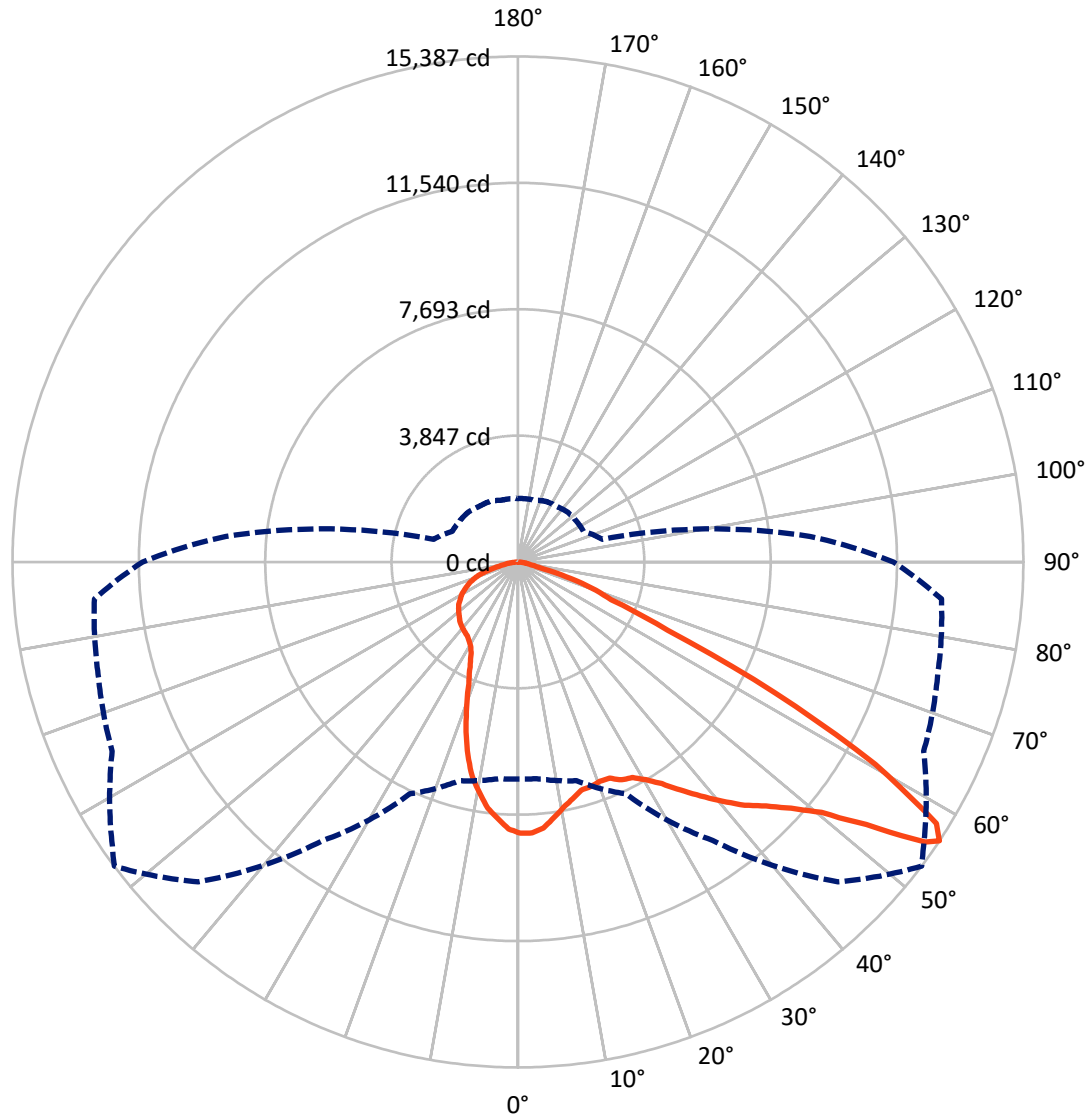
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7283.0	0.0	7283.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17674.0	0.0	17674.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	24957.0	0.0	24957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.0	2.9
10°-20°	1825.6	7.3
20°-30°	2692.0	10.8
30°-40°	3846.4	15.4
40°-50°	5294.0	21.2
50°-60°	6256.1	25.1
60°-70°	3334.1	13.4
70°-80°	845.8	3.4
80°-90°	131.9	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°	24957.0	100.0
0°-180°	24957.0	100.0

Coefficient of Utilization



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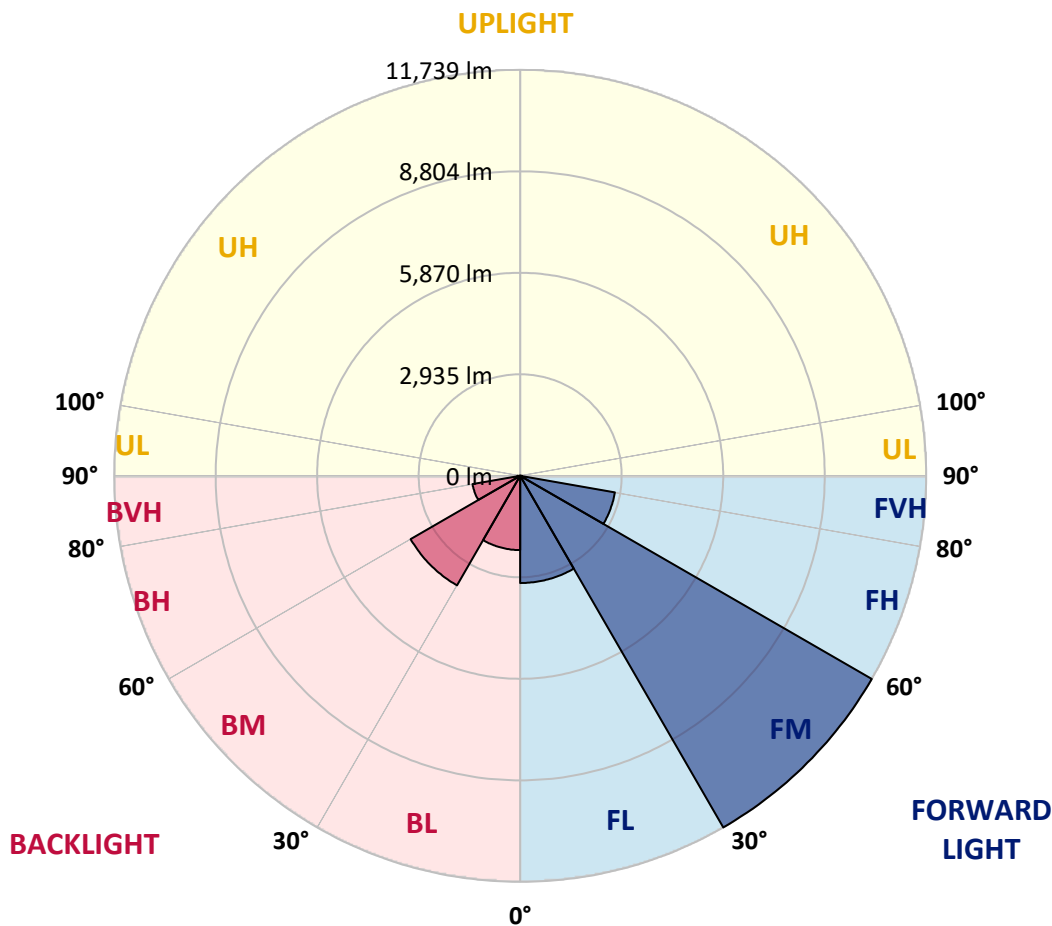
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3100.5	12.4			
FM (30°-60°)	11739.3	47.0			
FH (60°-80°)	2781.2	11.1			G2/5000
FVH (80°-90°)	53.0	0.2			G1/100
BL (0°-30°)	2148.1	8.6	B3/2500		
BM (30°-60°)	3657.3	14.7	B3/5000		
BH (60°-80°)	1398.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	78.9	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°	53°	55°	65°	75°	85°
0°	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8
2.5°	8154.3	8083.9	8125.5	8109.5	8240.8	8279.2	8260.0	8276.0	8349.6	8314.4	8240.8
5°	7619.7	7718.9	7738.1	7786.1	7863.0	8013.4	8131.9	8163.9	8199.1	8362.4	8346.4
7.5°	7133.0	7200.3	7165.0	7305.9	7472.4	7715.7	7859.8	7885.4	8208.7	8298.4	8365.6
10°	6825.7	6758.4	6918.5	6956.9	7145.8	7424.4	7597.2	7702.9	7997.4	8352.8	8394.4
12.5°	6540.7	6518.3	6614.4	6723.2	6934.5	7222.7	7398.7	7440.4	7895.0	8269.6	8464.9
15°	6329.4	6303.8	6399.9	6479.9	6726.4	6982.5	7206.7	7325.1	7782.9	8221.5	8404.0
17.5°	6163.0	6159.8	6214.2	6358.2	6611.2	6825.7	7187.4	7193.8	7725.3	8295.2	8455.3
20°	6153.4	6150.1	6159.8	6319.8	6550.3	6812.9	7126.6	7184.2	7725.3	8244.0	8458.5
22.5°	6233.4	6182.2	6239.8	6342.2	6508.7	6835.3	7149.0	7277.1	7911.0	8496.9	8602.5
25°	6361.5	6374.3	6406.3	6441.5	6537.5	6886.5	7347.5	7453.2	8128.7	8714.6	8801.0
27.5°	6595.2	6588.8	6601.6	6620.8	6704.0	6934.5	7427.6	7699.7	8583.3	9102.0	9015.5
30°	6937.7	6915.3	6966.5	7033.8	6956.9	7088.2	7693.3	7898.2	9005.9	9492.6	9255.6
32.5°	7248.3	7331.5	7427.6	7456.4	7363.5	7389.1	8045.5	8253.6	9358.1	9972.8	9550.2
35°	7635.7	7702.9	7831.0	7920.6	7904.6	7827.8	8525.7	8801.0	9867.1	10325.0	9860.7
37.5°	8013.4	8093.5	8304.8	8570.5	8423.2	8388.0	9037.9	9265.2	10024.0	10513.8	10088.0
40°	8621.7	8618.5	8983.5	9121.2	9252.4	9191.6	9569.4	9646.2	10107.2	10472.2	10094.4
42.5°	9335.7	9290.9	9662.2	9876.7	10046.4	10052.8	10123.3	10097.6	10145.7	10260.9	10027.2
45°	10014.4	10110.4	10485.0	10869.2	11038.9	11058.1	10590.7	10542.7	10212.9	10200.1	9899.1
47.5°	10843.6	10866.0	11173.4	11679.2	12073.0	11938.5	11195.8	11090.1	10507.4	10606.7	10113.6
50°	10891.6	11058.1	11333.4	11928.9	13139.1	13103.9	11980.1	11781.6	10981.3	11183.0	10712.3
52.5°	9886.3	9847.9	10174.5	11147.7	13059.1	14262.8	13280.0	12806.1	11999.4	11845.7	11682.4
55°	7533.2	7622.9	7911.0	8893.9	11339.8	14278.8	15050.4	14663.0	13087.9	12825.3	12636.5
56°	6608.0	6620.8	6892.9	7789.3	10347.4	13769.8	15386.6	15072.8	13628.9	13228.7	12940.6
57.5°	5477.8	5404.2	5545.1	6034.9	8733.8	12694.1	15018.4	15325.7	14262.8	13664.2	13264.0
60°	4312.5	4296.5	4238.8	4328.5	5519.4	9563.0	12502.0	13193.5	14198.8	13254.4	12703.7
62.5°	3521.7	3441.7	3556.9	3685.0	3835.4	5932.4	8785.0	9191.6	11272.6	10581.1	9543.8
65°	2730.9	2692.5	2836.6	3252.8	3342.4	3768.2	5004.0	5317.7	6656.0	6537.5	5756.4
67.5°	1879.3	1885.7	2010.6	2644.5	3099.1	3060.7	3063.9	3227.1	3473.7	2580.4	2247.5
70°	1191.0	1187.8	1255.0	1703.2	2494.0	2519.6	2391.5	2343.5	2221.9	1344.6	1424.7
72.5°	765.2	742.8	778.0	941.3	1290.2	1491.9	1536.7	1565.6	1287.0	1056.5	1146.1
75°	432.2	409.8	397.0	438.6	509.0	589.1	646.7	665.9	746.0	800.4	848.4
77.5°	131.3	118.5	144.1	192.1	252.9	339.4	413.0	425.8	502.6	566.7	614.7
80°	57.6	64.0	89.6	128.1	179.3	240.1	291.3	310.5	361.8	409.8	422.6
82.5°	35.2	38.4	60.8	86.4	124.9	169.7	208.1	214.5	265.7	304.1	313.8
85°	12.8	16.0	32.0	51.2	80.0	108.9	108.9	118.5	108.9	108.9	118.5
87.5°	0.0	0.0	3.2	6.4	6.4	9.6	12.8	12.8	16.0	19.2	22.4
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°	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8	8256.8
2.5°	8279.2	8263.2	8237.5	8144.7	8135.1	8106.3	7946.2	7920.6	7946.2	7869.4	7875.8
5°	8263.2	8311.2	8119.1	8026.2	7853.4	7728.5	7584.4	7510.8	7379.5	7296.3	7389.1
7.5°	8333.6	8314.4	8074.3	7872.6	7613.3	7296.3	7043.4	6899.3	6668.8	6604.8	6652.8
10°	8308.0	8205.5	7923.8	7658.1	7168.2	6889.7	6479.9	6082.9	5865.2	5753.2	5737.2
12.5°	8272.8	8244.0	7773.3	7315.5	6800.1	6214.2	5637.9	5263.3	4908.0	4754.3	4776.7
15°	8314.4	8071.1	7491.6	6912.1	6227.0	5458.6	4837.5	4354.1	4107.6	4008.3	4008.3
17.5°	8295.2	7987.8	7357.1	6460.7	5593.1	4683.8	4001.9	3710.6	3608.1	3608.1	3636.9
20°	8304.8	8042.3	7085.0	6009.3	4843.9	3944.3	3448.1	3342.4	3387.2	3403.2	3419.2
22.5°	8359.2	7863.0	6819.3	5513.0	4149.2	3374.4	3131.1	3134.3	3214.3	3300.8	3284.8
25°	8426.4	7792.5	6495.9	5020.0	3617.7	3095.9	3019.0	3009.4	3070.3	3115.1	3121.5
27.5°	8368.8	7670.9	6166.2	4405.3	3182.3	2910.2	2894.2	2900.6	2919.8	3009.4	2980.6
30°	8557.7	7706.1	5753.2	3889.9	2942.2	2849.4	2830.2	2820.6	2849.4	2875.0	2852.6
32.5°	8791.4	7581.2	5445.8	3393.6	2823.8	2804.5	2766.1	2753.3	2769.3	2743.7	2756.5
35°	8893.9	7558.8	5045.6	3038.3	2730.9	2714.9	2692.5	2689.3	2692.5	2670.1	2650.9
37.5°	8951.5	7664.5	4587.8	2875.0	2673.3	2689.3	2638.1	2631.7	2574.0	2586.8	2596.4
40°	9050.7	7501.2	4216.4	2718.1	2638.1	2606.0	2561.2	2551.6	2513.2	2490.8	2513.2
42.5°	8906.7	7453.2	3851.4	2650.9	2586.8	2551.6	2519.6	2465.2	2452.4	2433.2	2420.4
45°	8791.4	7177.8	3524.9	2567.6	2526.0	2506.8	2446.0	2388.3	2340.3	2359.5	2330.7
47.5°	8877.9	7081.8	3201.5	2497.2	2442.8	2420.4	2359.5	2314.7	2266.7	2244.3	2237.9
50°	9223.6	7261.1	2929.4	2446.0	2372.3	2359.5	2279.5	2228.3	2183.4	2167.4	2173.8
52.5°	10049.6	7750.9	2743.7	2340.3	2305.1	2247.5	2202.7	2138.6	2109.8	2058.6	2090.6
55°	11096.5	8548.1	2695.7	2241.1	2221.9	2170.6	2109.8	2061.8	2007.4	1965.7	1956.1
56°	11432.7	8929.1	2657.3	2202.7	2170.6	2141.8	2061.8	2033.0	1946.5	1936.9	1930.5
57.5°	11704.8	9265.2	2663.7	2129.0	2097.0	2071.4	2023.4	1952.9	1895.3	1860.1	1876.1
60°	11090.1	8673.0	2542.0	2017.0	2010.6	1962.5	1895.3	1863.3	1792.9	1751.2	1741.6
62.5°	8244.0	5887.6	2061.8	1872.9	1869.7	1818.5	1741.6	1706.4	1693.6	1636.0	1636.0
65°	4747.9	3691.4	1783.3	1754.4	1728.8	1677.6	1600.8	1572.0	1539.9	1520.7	1504.7
67.5°	2026.6	1914.5	1620.0	1616.8	1588.0	1523.9	1447.1	1402.3	1360.7	1322.2	1341.4
70°	1469.5	1491.9	1463.1	1447.1	1411.9	1331.8	1264.6	1210.2	1146.1	1120.5	1139.7
72.5°	1165.4	1213.4	1255.0	1258.2	1216.6	1123.7	1050.1	976.5	906.0	870.8	886.8
75°	883.6	915.6	957.3	966.9	906.0	842.0	771.6	694.7	640.3	598.7	605.1
77.5°	637.1	630.7	669.1	662.7	633.9	589.1	525.1	454.6	393.8	355.4	358.6
80°	435.4	445.0	467.4	464.2	429.0	400.2	352.2	294.5	249.7	217.7	211.3
82.5°	304.1	320.2	339.4	323.4	294.5	265.7	230.5	188.9	153.7	128.1	121.7
85°	108.9	124.9	144.1	153.7	163.3	156.9	131.3	105.7	76.8	64.0	60.8
87.5°	22.4	25.6	28.8	28.8	28.8	25.6	22.4	22.4	19.2	9.6	9.6
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)