

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: P530416

Luminaire Tested: **GALN-SA5C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530416
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-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 21937 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

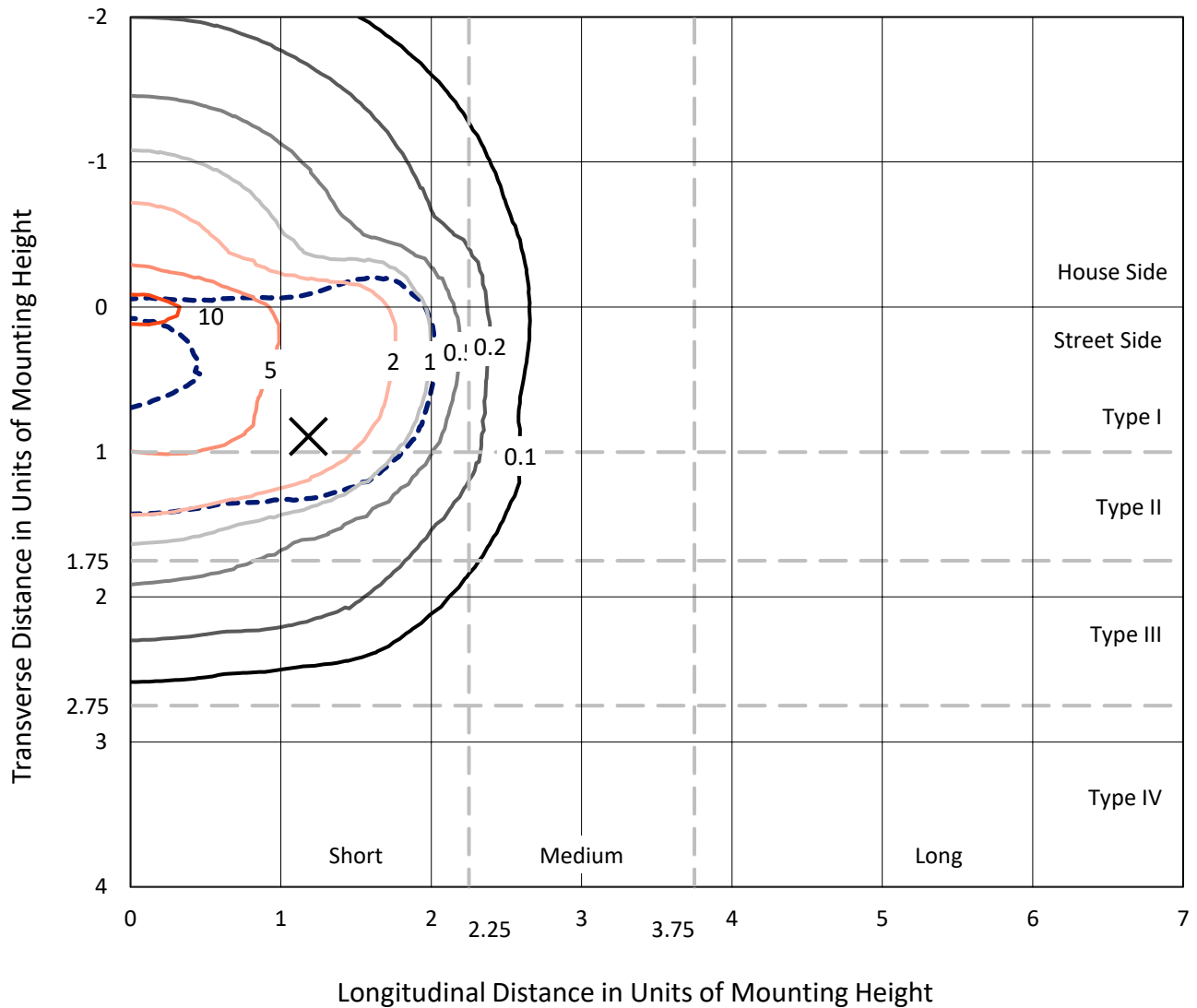
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

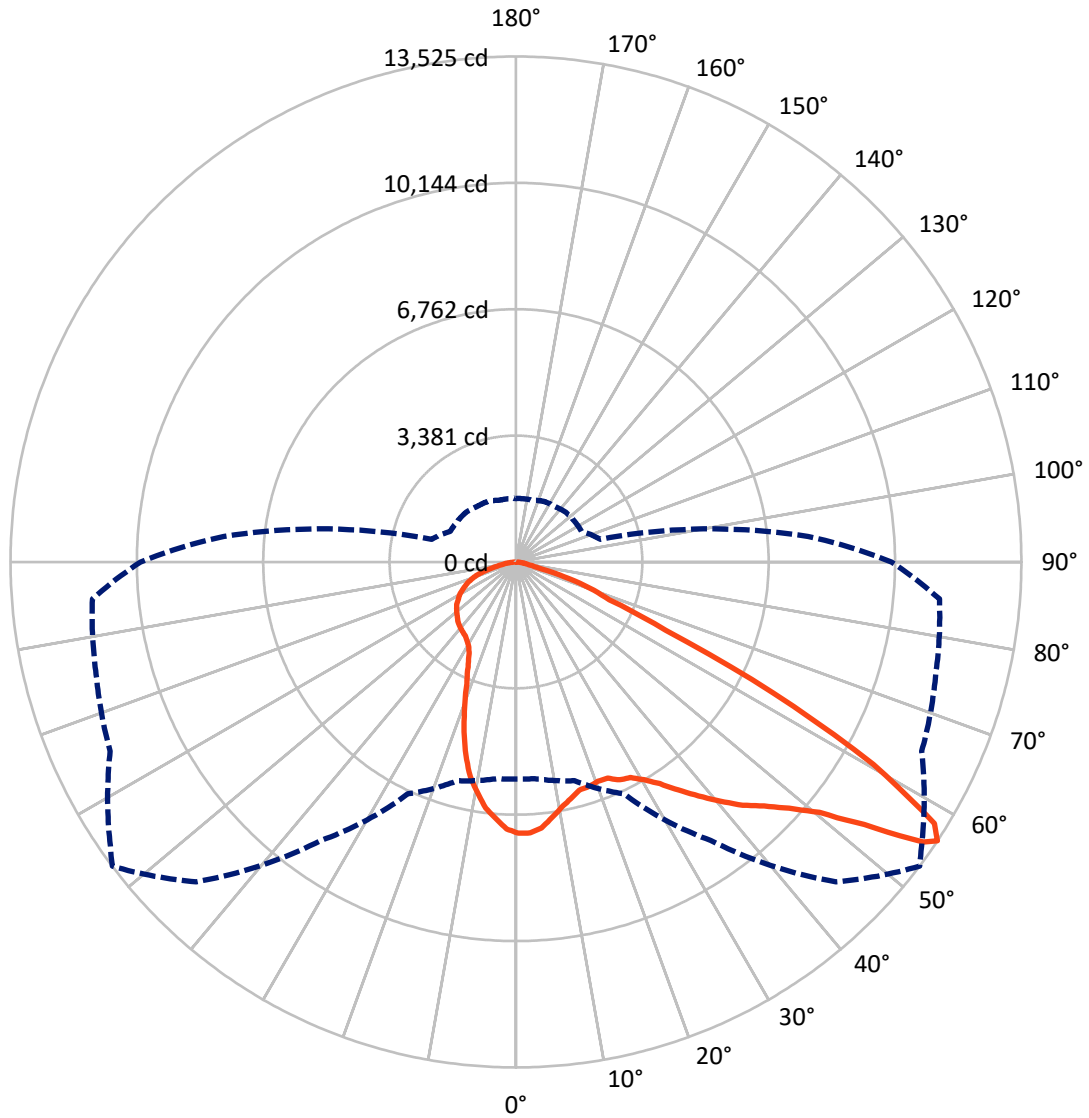
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	6401.7	0.0	6401.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	15535.3	0.0	15535.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	21937.0	0.0	21937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.5	2.9
10°-20°	1604.7	7.3
20°-30°	2366.3	10.8
30°-40°	3380.9	15.4
40°-50°	4653.4	21.2
50°-60°	5499.1	25.1
60°-70°	2930.6	13.4
70°-80°	743.5	3.4
80°-90°	115.9	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°	21937.0	100.0
0°-180°	21937.0	100.0

Coefficient of Utilization



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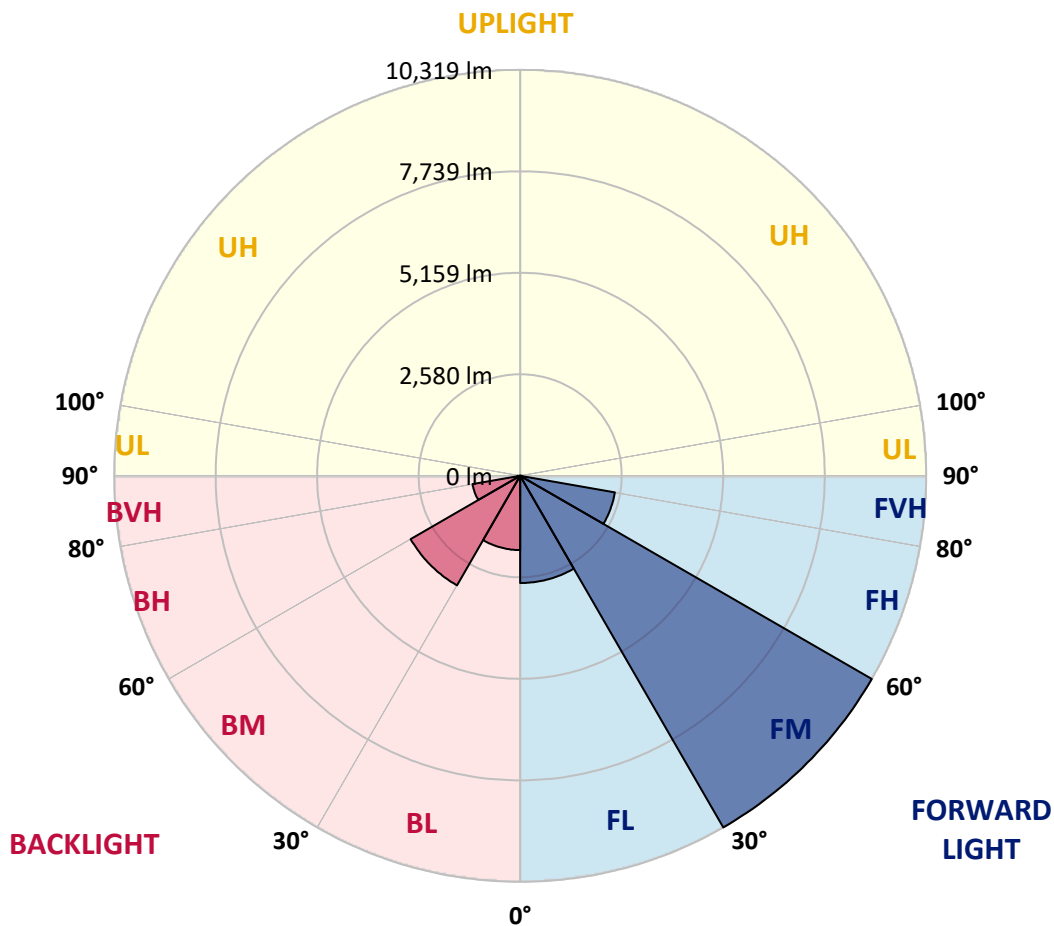
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2725.4	12.4			
FM (30°-60°)	10318.7	47.0			
FH (60°-80°)	2444.6	11.1			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	1888.1	8.6	B3/2500		
BM (30°-60°)	3214.7	14.7	B3/5000		
BH (60°-80°)	1229.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	69.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6
2.5°	7167.6	7105.7	7142.2	7128.2	7243.6	7277.3	7260.4	7274.5	7339.2	7308.3	7243.6
5°	6697.6	6784.9	6801.7	6843.9	6911.5	7043.8	7147.9	7176.0	7207.0	7350.5	7336.4
7.5°	6269.9	6329.0	6298.0	6421.8	6568.2	6782.0	6908.7	6931.2	7215.4	7294.2	7353.3
10°	5999.7	5940.6	6081.3	6115.1	6281.1	6526.0	6677.9	6770.8	7029.7	7342.0	7378.6
12.5°	5749.3	5729.6	5814.0	5909.7	6095.4	6348.7	6503.4	6540.0	6939.6	7268.9	7440.5
15°	5563.5	5541.0	5625.4	5695.8	5912.5	6137.6	6334.6	6438.7	6841.1	7226.7	7387.1
17.5°	5417.2	5414.4	5462.2	5588.8	5811.2	5999.7	6317.7	6323.3	6790.5	7291.4	7432.1
20°	5408.7	5405.9	5414.4	5555.1	5757.7	5988.5	6264.2	6314.9	6790.5	7246.4	7434.9
22.5°	5479.1	5434.1	5484.7	5574.8	5721.1	6008.2	6283.9	6396.5	6953.7	7468.7	7561.5
25°	5591.7	5602.9	5631.1	5662.0	5746.4	6053.2	6458.4	6551.3	7145.1	7660.0	7736.0
27.5°	5797.1	5791.5	5802.7	5819.6	5892.8	6095.4	6528.8	6768.0	7544.7	8000.6	7924.6
30°	6098.2	6078.5	6123.5	6182.6	6115.1	6230.5	6762.3	6942.4	7916.1	8343.9	8135.6
32.5°	6371.2	6444.3	6528.8	6554.1	6472.5	6495.0	7071.9	7254.8	8225.7	8766.0	8394.5
35°	6711.7	6770.8	6883.3	6962.1	6948.1	6880.5	7494.0	7736.0	8673.1	9075.5	8667.5
37.5°	7043.8	7114.1	7299.8	7533.4	7404.0	7373.0	7944.3	8144.1	8811.0	9241.6	8867.3
40°	7578.4	7575.6	7896.4	8017.4	8132.8	8079.3	8411.4	8479.0	8884.2	9205.0	8872.9
42.5°	8206.0	8166.6	8493.0	8681.6	8830.7	8836.3	8898.3	8875.7	8918.0	9019.3	8813.8
45°	8802.6	8887.0	9216.3	9553.9	9703.1	9720.0	9309.1	9266.9	8977.1	8965.8	8701.3
47.5°	9531.4	9551.1	9821.3	10265.9	10612.1	10493.9	9841.0	9748.1	9236.0	9323.2	8889.8
50°	9573.6	9720.0	9962.0	10485.4	11549.2	11518.2	10530.4	10356.0	9652.4	9829.7	9416.1
52.5°	8690.0	8656.2	8943.3	9798.8	11478.8	12536.9	11673.0	11256.5	10547.3	10412.3	10268.7
55°	6621.6	6700.4	6953.7	7817.6	9967.6	12551.0	13229.2	12888.7	11504.1	11273.4	11107.3
56°	5808.4	5819.6	6058.8	6846.8	9095.2	12103.5	13524.7	13248.9	11979.7	11628.0	11374.7
57.5°	4815.0	4750.2	4874.1	5304.6	7676.9	11158.0	13201.1	13471.2	12536.9	12010.7	11658.9
60°	3790.6	3776.6	3725.9	3804.7	4851.5	8405.8	10989.2	11597.0	12480.6	11650.5	11166.4
62.5°	3095.5	3025.2	3126.5	3239.1	3371.3	5214.6	7722.0	8079.3	9908.5	9300.7	8388.9
65°	2400.4	2366.7	2493.3	2859.1	2937.9	3312.2	4398.5	4674.3	5850.6	5746.4	5059.8
67.5°	1651.9	1657.5	1767.3	2324.5	2724.1	2690.3	2693.1	2836.6	3053.3	2268.2	1975.5
70°	1046.9	1044.0	1103.1	1497.1	2192.2	2214.7	2102.2	2059.9	1953.0	1181.9	1252.3
72.5°	672.6	652.9	683.8	827.4	1134.1	1311.4	1350.8	1376.1	1131.3	928.7	1007.5
75°	379.9	360.2	349.0	385.5	447.4	517.8	568.5	585.3	655.7	703.5	745.7
77.5°	115.4	104.1	126.6	168.8	222.3	298.3	363.0	374.3	441.8	498.1	540.3
80°	50.7	56.3	78.8	112.6	157.6	211.1	256.1	273.0	318.0	360.2	371.5
82.5°	31.0	33.8	53.5	76.0	109.8	149.1	182.9	188.5	233.6	267.3	275.8
85°	11.3	14.1	28.1	45.0	70.4	95.7	95.7	104.1	95.7	95.7	104.1
87.5°	0.0	0.0	2.8	5.6	5.6	8.4	11.3	11.3	14.1	16.9	19.7
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°	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6	7257.6
2.5°	7277.3	7263.3	7240.7	7159.1	7150.7	7125.4	6984.7	6962.1	6984.7	6917.1	6922.7
5°	7263.3	7305.5	7136.6	7055.0	6903.0	6793.3	6666.7	6601.9	6486.6	6413.4	6495.0
7.5°	7325.2	7308.3	7097.2	6919.9	6692.0	6413.4	6191.1	6064.4	5861.8	5805.5	5847.7
10°	7302.7	7212.6	6965.0	6731.4	6300.8	6056.0	5695.8	5346.8	5155.5	5057.0	5042.9
12.5°	7271.7	7246.4	6832.7	6430.3	5977.2	5462.2	4955.7	4626.4	4314.1	4179.0	4198.7
15°	7308.3	7094.4	6585.0	6075.7	5473.5	4798.1	4252.1	3827.2	3610.5	3523.3	3523.3
17.5°	7291.4	7021.2	6466.9	5678.9	4916.3	4117.1	3517.7	3261.6	3171.5	3171.5	3196.8
20°	7299.8	7069.1	6227.7	5282.1	4257.8	3467.0	3030.8	2937.9	2977.3	2991.4	3005.5
22.5°	7347.7	6911.5	5994.1	4845.9	3647.1	2966.1	2752.2	2755.0	2825.4	2901.4	2887.3
25°	7406.8	6849.6	5709.9	4412.5	3180.0	2721.3	2653.7	2645.3	2698.7	2738.1	2743.8
27.5°	7356.1	6742.6	5420.0	3872.2	2797.2	2558.0	2544.0	2549.6	2566.5	2645.3	2619.9
30°	7522.2	6773.6	5057.0	3419.2	2586.2	2504.6	2487.7	2479.2	2504.6	2527.1	2507.4
32.5°	7727.6	6663.8	4786.8	2983.0	2482.1	2465.2	2431.4	2420.1	2434.2	2411.7	2423.0
35°	7817.6	6644.1	4435.1	2670.6	2400.4	2386.4	2366.7	2363.9	2366.7	2347.0	2330.1
37.5°	7868.3	6737.0	4032.6	2527.1	2349.8	2363.9	2318.8	2313.2	2262.6	2273.8	2282.3
40°	7955.5	6593.5	3706.2	2389.2	2318.8	2290.7	2251.3	2242.9	2209.1	2189.4	2209.1
42.5°	7828.9	6551.3	3385.4	2330.1	2273.8	2242.9	2214.7	2166.9	2155.6	2138.7	2127.5
45°	7727.6	6309.3	3098.3	2256.9	2220.3	2203.5	2150.0	2099.3	2057.1	2074.0	2048.7
47.5°	7803.6	6224.8	2814.1	2195.0	2147.2	2127.5	2074.0	2034.6	1992.4	1972.7	1967.1
50°	8107.5	6382.4	2574.9	2150.0	2085.3	2074.0	2003.7	1958.6	1919.2	1905.2	1910.8
52.5°	8833.5	6813.0	2411.7	2057.1	2026.2	1975.5	1936.1	1879.8	1854.5	1809.5	1837.6
55°	9753.8	7513.7	2369.5	1969.9	1953.0	1908.0	1854.5	1812.3	1764.5	1727.9	1719.4
56°	10049.2	7848.6	2335.7	1936.1	1908.0	1882.6	1812.3	1787.0	1711.0	1702.5	1696.9
57.5°	10288.4	8144.1	2341.4	1871.4	1843.3	1820.7	1778.5	1716.6	1666.0	1635.0	1649.1
60°	9748.1	7623.5	2234.4	1772.9	1767.3	1725.1	1666.0	1637.8	1575.9	1539.3	1530.9
62.5°	7246.4	5175.2	1812.3	1646.3	1643.4	1598.4	1530.9	1499.9	1488.7	1438.0	1438.0
65°	4173.3	3244.7	1567.5	1542.1	1519.6	1474.6	1407.1	1381.7	1353.6	1336.7	1322.6
67.5°	1781.3	1682.8	1423.9	1421.1	1395.8	1339.5	1272.0	1232.6	1196.0	1162.2	1179.1
70°	1291.7	1311.4	1286.1	1272.0	1241.0	1170.7	1111.6	1063.7	1007.5	984.9	1001.8
72.5°	1024.3	1066.6	1103.1	1106.0	1069.4	987.8	923.0	858.3	796.4	765.4	779.5
75°	776.7	804.8	841.4	849.9	796.4	740.1	678.2	610.7	562.8	526.2	531.9
77.5°	560.0	554.4	588.2	582.5	557.2	517.8	461.5	399.6	346.1	312.4	315.2
80°	382.7	391.2	410.9	408.0	377.1	351.8	309.6	258.9	219.5	191.4	185.7
82.5°	267.3	281.4	298.3	284.2	258.9	233.6	202.6	166.0	135.1	112.6	106.9
85°	95.7	109.8	126.6	135.1	143.5	137.9	115.4	92.9	67.5	56.3	53.5
87.5°	19.7	22.5	25.3	25.3	25.3	22.5	19.7	19.7	16.9	8.4	8.4
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)