

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: P530418

Luminaire Tested: **GALN-SA5C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21896 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

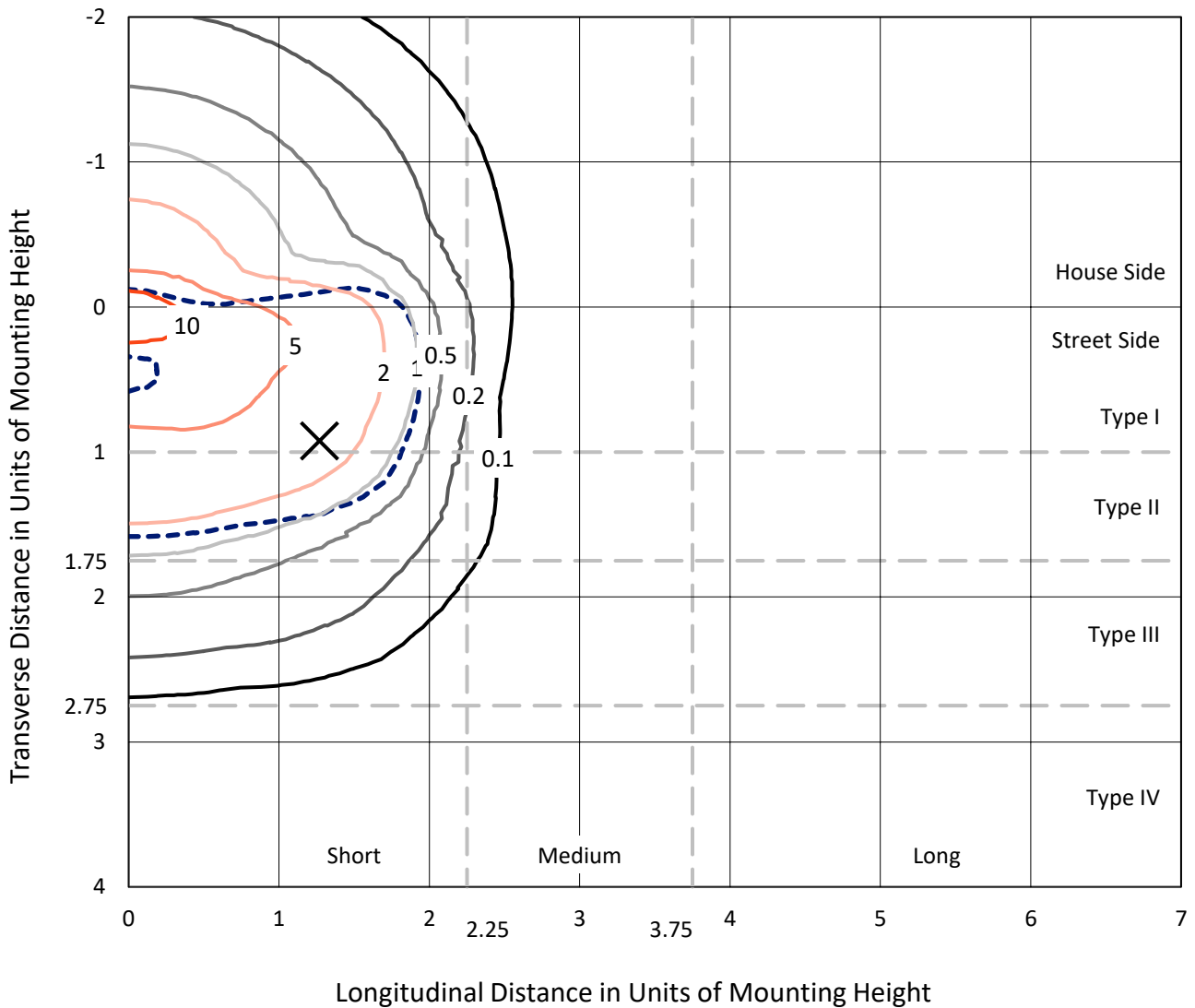
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

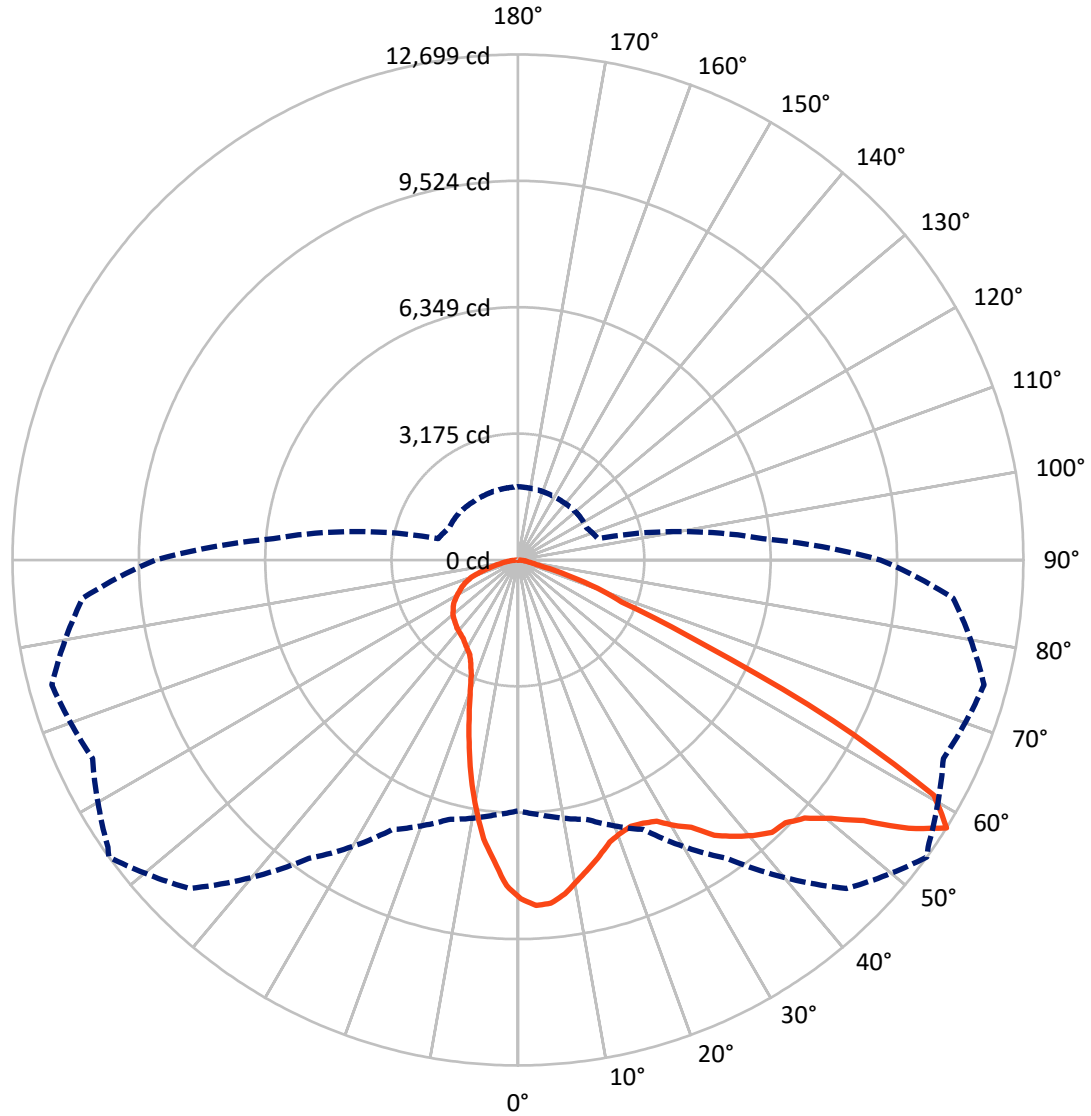
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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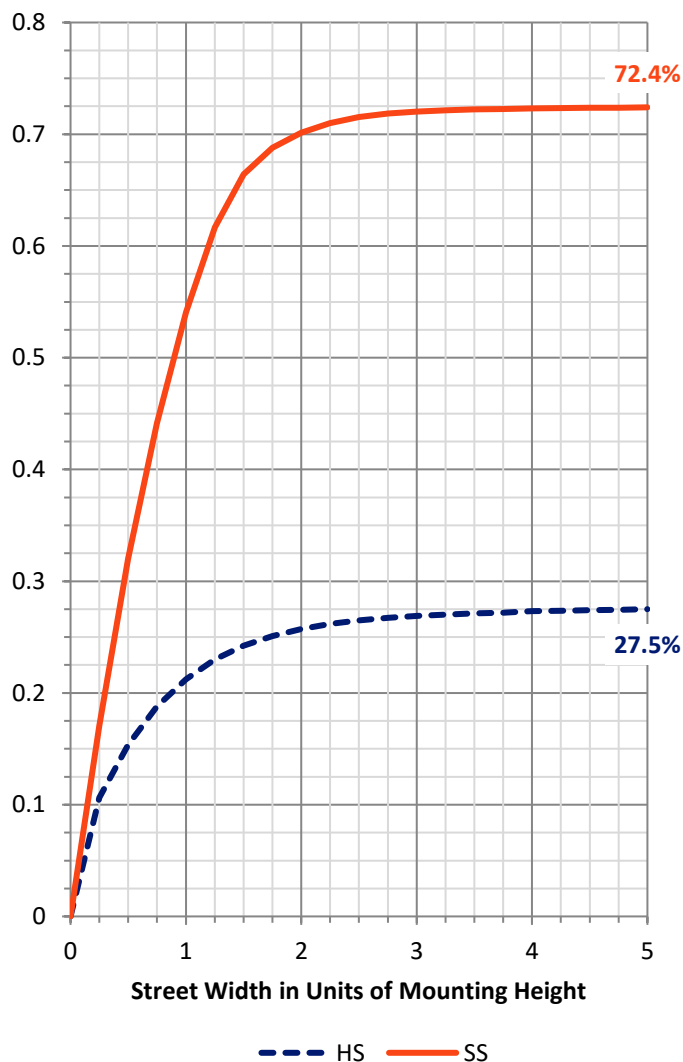
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6057.6	0.0	6057.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	15838.3	0.0	15838.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	21896.0	0.0	21896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.0	3.4
10°-20°	1699.4	7.8
20°-30°	2387.7	10.9
30°-40°	3338.0	15.2
40°-50°	4519.0	20.6
50°-60°	5504.4	25.1
60°-70°	2866.9	13.1
70°-80°	734.6	3.4
80°-90°	112.1	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°	21896.0	100.0
0°-180°	21896.0	100.0

Coefficient of Utilization



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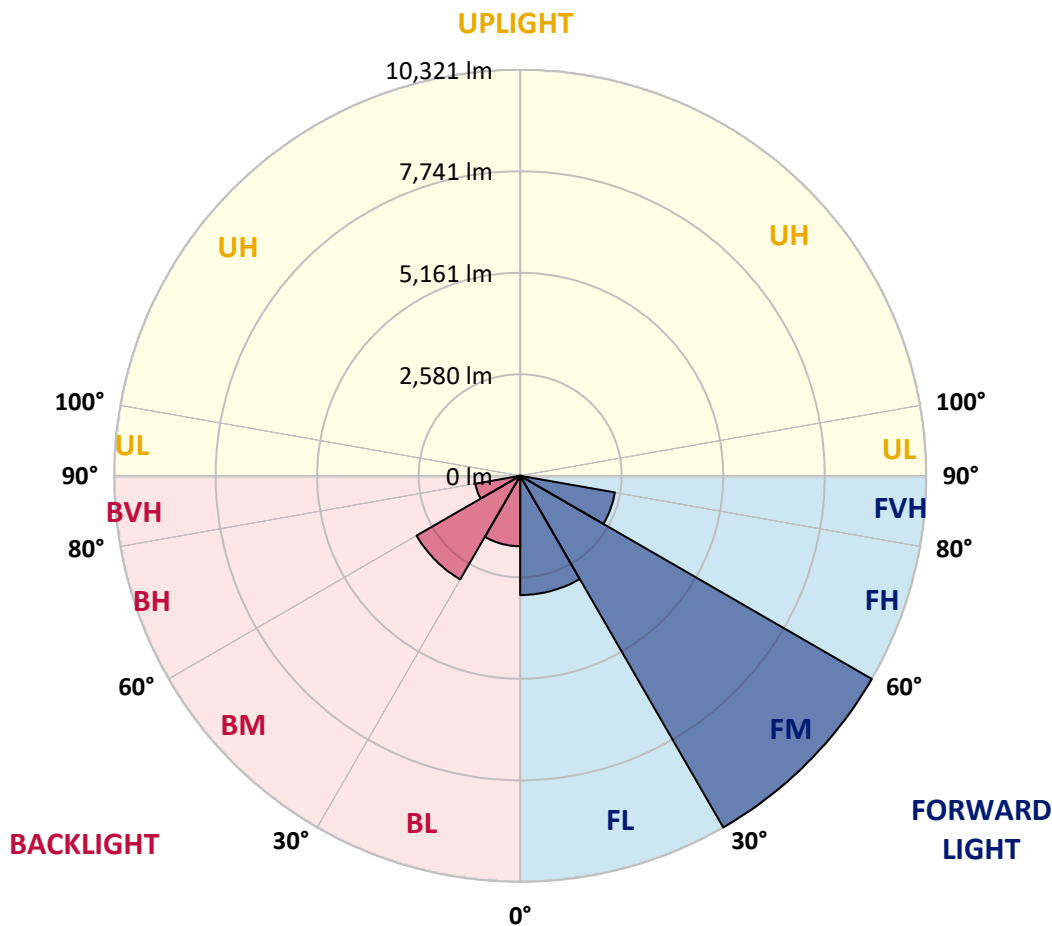
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3030.7	13.8			
FM (30°-60°)	10321.1	47.1			
FH (60°-80°)	2444.2	11.2			G2/5000
FVH (80°-90°)	42.3	0.2			G1/100
BL (0°-30°)	1790.3	8.2	B3/2500		
BM (30°-60°)	3040.3	13.9	B3/5000		
BH (60°-80°)	1157.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	69.7	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°	54°	55°	65°	75°	85°
0°	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7
2.5°	8752.8	8719.0	8724.6	8769.6	8713.4	8690.8	8690.8	8581.1	8589.5	8513.5	8493.8
5°	8550.1	8471.3	8524.8	8592.3	8603.6	8626.1	8662.7	8634.6	8555.8	8474.1	8341.9
7.5°	8021.0	8091.4	8111.1	8158.9	8260.2	8353.1	8468.5	8389.7	8386.9	8305.3	8226.5
10°	7556.6	7514.4	7621.4	7691.7	7860.6	8015.4	8192.7	8184.3	8226.5	8133.6	7998.5
12.5°	7095.1	7061.3	7112.0	7272.4	7508.8	7734.0	7945.0	7866.2	8091.4	8074.5	7784.6
15°	6605.4	6630.7	6703.9	6853.0	7162.6	7432.8	7700.2	7703.0	7902.8	7970.4	7582.0
17.5°	6262.0	6233.9	6326.8	6549.1	6824.9	7148.6	7452.5	7514.4	7821.2	7860.6	7520.1
20°	6005.9	6045.3	6166.3	6278.9	6596.9	6988.1	7331.5	7354.0	7804.3	7911.3	7421.6
22.5°	5944.0	5921.5	5960.9	6143.8	6405.6	6830.5	7266.8	7351.2	7801.5	7894.4	7235.8
25°	5879.3	5952.4	5949.6	6132.6	6323.9	6703.9	7320.2	7413.1	7950.7	7981.6	7261.1
27.5°	6025.6	6017.2	6096.0	6110.0	6346.5	6737.7	7432.8	7503.2	8198.3	8173.0	7280.8
30°	6172.0	6129.7	6177.6	6343.6	6453.4	6931.8	7742.4	7736.8	8519.2	8502.3	7342.8
32.5°	6352.1	6332.4	6363.3	6509.7	6695.4	7190.8	8004.1	8170.2	8845.6	8952.6	7556.6
35°	6385.9	6467.5	6540.6	6737.7	7002.2	7610.1	8496.7	8634.6	9222.8	9557.7	7964.7
37.5°	6599.8	6630.7	6802.4	7151.4	7393.4	8170.2	8809.1	8896.3	9566.1	9946.1	8395.3
40°	6827.7	6864.3	7123.2	7489.1	7821.2	8536.1	9101.7	9129.9	9675.9	10244.4	8676.8
42.5°	7137.3	7171.1	7427.2	7885.9	8330.6	8848.5	9360.7	9391.6	9667.4	10587.7	9124.3
45°	7458.1	7539.8	7840.9	8361.6	8761.2	9214.3	9419.8	9546.4	9746.2	10894.5	9487.3
47.5°	7908.4	7984.4	8232.1	8741.5	9208.7	9535.2	9692.8	9816.6	9934.8	11161.9	9720.9
50°	8386.9	8401.0	8702.1	9163.7	9507.0	9898.2	10202.2	10244.4	10182.5	11471.5	10117.7
52.5°	8738.7	8783.7	9017.3	9467.6	9979.8	10461.1	10877.6	10922.7	10801.6	11586.9	10252.8
55°	8156.1	8130.8	8510.7	9110.2	10297.9	11299.8	11904.9	11938.7	11251.9	11944.3	10694.7
57.5°	6304.2	6425.3	6748.9	7472.2	9149.6	11671.3	12698.5	12577.5	11792.3	12124.4	10976.1
60°	4581.8	4553.7	4770.4	5254.5	6895.3	10058.6	12006.2	12130.0	11350.4	10928.3	9051.1
62.5°	3731.9	3692.5	3709.4	3726.3	4449.6	6675.7	8887.9	8885.0	8741.5	7855.0	6104.4
65°	2983.3	3076.1	3084.6	3211.2	3304.1	3988.0	5150.3	5426.1	4725.4	3875.4	2811.6
67.5°	2248.7	2214.9	2327.5	2777.8	2952.3	2879.1	2811.6	2842.5	2020.7	1457.9	1373.4
70°	1325.6	1311.5	1446.6	1936.3	2431.6	2288.1	2119.2	2122.1	1387.5	1018.8	1134.2
72.5°	726.1	723.3	751.4	982.2	1381.9	1435.3	1272.1	1311.5	827.4	824.6	886.5
75°	405.3	396.8	388.4	433.4	498.1	526.3	537.5	543.2	568.5	636.1	661.4
77.5°	149.2	143.5	143.5	166.0	211.1	264.6	334.9	340.5	402.5	461.6	486.9
80°	50.7	56.3	76.0	104.1	140.7	188.6	228.0	233.6	284.3	323.7	332.1
82.5°	31.0	33.8	50.7	73.2	101.3	132.3	168.9	171.7	211.1	236.4	247.7
85°	14.1	16.9	28.1	45.0	64.7	87.2	90.1	90.1	87.2	90.1	84.4
87.5°	0.0	0.0	5.6	5.6	5.6	8.4	11.3	8.4	14.1	16.9	16.9
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°	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7	8510.7
2.5°	8434.7	8403.8	8308.1	8223.7	8198.3	8085.8	7919.7	7939.4	7818.4	7874.7	7815.6
5°	8319.3	8215.2	7970.4	7866.2	7593.2	7469.4	7385.0	7173.9	7075.4	7055.7	6971.3
7.5°	8023.8	7959.1	7652.3	7370.9	7081.0	6833.3	6515.3	6298.6	6143.8	6101.6	5977.8
10°	7790.2	7646.7	7221.7	6793.9	6380.2	5949.6	5535.9	5212.3	5054.6	4871.7	4809.8
12.5°	7559.5	7342.8	6768.6	6219.8	5685.1	5141.9	4640.9	4246.9	3903.6	3821.9	3793.8
15°	7415.9	7038.8	6363.3	5702.0	4942.1	4232.8	3731.9	3473.0	3261.9	3174.6	3236.6
17.5°	7227.4	6788.3	5975.0	5094.1	4258.2	3605.2	3185.9	3025.5	2949.5	2957.9	2932.6
20°	6991.0	6551.9	5465.6	4542.4	3647.5	3126.8	2887.6	2828.5	2839.7	2859.4	2851.0
22.5°	6822.1	6264.8	5096.9	3979.6	3152.1	2862.2	2763.7	2721.5	2758.1	2775.0	2760.9
25°	6692.6	6020.0	4649.4	3481.4	2865.1	2713.1	2668.0	2665.2	2721.5	2744.0	2730.0
27.5°	6574.4	5792.0	4204.7	3101.5	2673.7	2597.7	2583.6	2617.4	2654.0	2676.5	2696.2
30°	6504.1	5617.5	3788.2	2783.4	2578.0	2541.4	2516.1	2547.0	2566.7	2589.2	2578.0
32.5°	6571.6	5493.7	3385.7	2603.3	2499.2	2462.6	2496.4	2476.7	2510.4	2530.1	2499.2
35°	6782.7	5383.9	3098.6	2507.6	2409.1	2423.2	2428.8	2420.4	2434.4	2417.6	2454.2
37.5°	6991.0	5344.5	2834.1	2426.0	2366.9	2366.9	2361.3	2344.4	2372.5	2366.9	2383.8
40°	7255.5	5369.9	2608.9	2338.8	2327.5	2321.9	2299.4	2296.5	2285.3	2288.1	2293.7
42.5°	7486.3	5426.1	2479.5	2282.5	2290.9	2302.2	2260.0	2226.2	2240.3	2212.1	2212.1
45°	7731.1	5476.8	2364.1	2243.1	2234.6	2231.8	2198.0	2178.3	2167.1	2169.9	2195.2
47.5°	8116.7	5550.0	2276.8	2189.6	2195.2	2153.0	2144.6	2119.2	2130.5	2147.4	2150.2
50°	8389.7	5704.8	2209.3	2127.7	2147.4	2119.2	2068.6	2057.3	2057.3	2085.5	2079.8
52.5°	8581.1	5921.5	2144.6	2060.1	2068.6	2046.1	2029.2	2003.8	1987.0	2026.4	2046.1
55°	9166.5	6281.7	2127.7	2003.8	2001.0	1978.5	1947.6	1922.2	1913.8	1919.4	1958.8
57.5°	9110.2	6169.1	2074.2	1905.3	1899.7	1868.8	1837.8	1829.4	1826.5	1832.2	1843.4
60°	7396.2	4556.5	1851.9	1792.8	1784.3	1778.7	1747.7	1714.0	1697.1	1714.0	1699.9
62.5°	4894.2	3050.8	1632.3	1657.7	1663.3	1649.2	1598.6	1564.8	1570.4	1590.1	1559.2
65°	2403.5	1792.8	1480.4	1547.9	1553.5	1514.1	1466.3	1426.9	1407.2	1424.1	1410.0
67.5°	1373.4	1370.6	1356.5	1426.9	1424.1	1384.7	1308.7	1274.9	1241.1	1246.8	1238.3
70°	1165.2	1187.7	1215.8	1258.0	1255.2	1210.2	1120.1	1094.8	1047.0	1041.3	1027.3
72.5°	917.5	956.9	1018.8	1049.8	1024.4	968.2	909.0	866.8	824.6	799.3	807.7
75°	681.1	737.4	771.1	790.8	751.4	720.5	672.6	622.0	571.3	548.8	540.4
77.5°	495.3	512.2	543.2	557.2	531.9	501.0	472.8	422.2	374.3	343.4	334.9
80°	346.2	357.4	379.9	379.9	379.9	365.9	329.3	278.6	247.7	219.5	213.9
82.5°	242.0	253.3	275.8	264.6	261.7	244.9	222.3	182.9	149.2	129.5	123.8
85°	84.4	92.9	112.6	135.1	143.5	140.7	126.6	101.3	78.8	64.7	59.1
87.5°	19.7	19.7	22.5	19.7	19.7	22.5	19.7	19.7	19.7	14.1	11.3
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)