

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: P532600

Luminaire Tested: **GALN-SA8A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532600
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-SA8A-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 26176 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

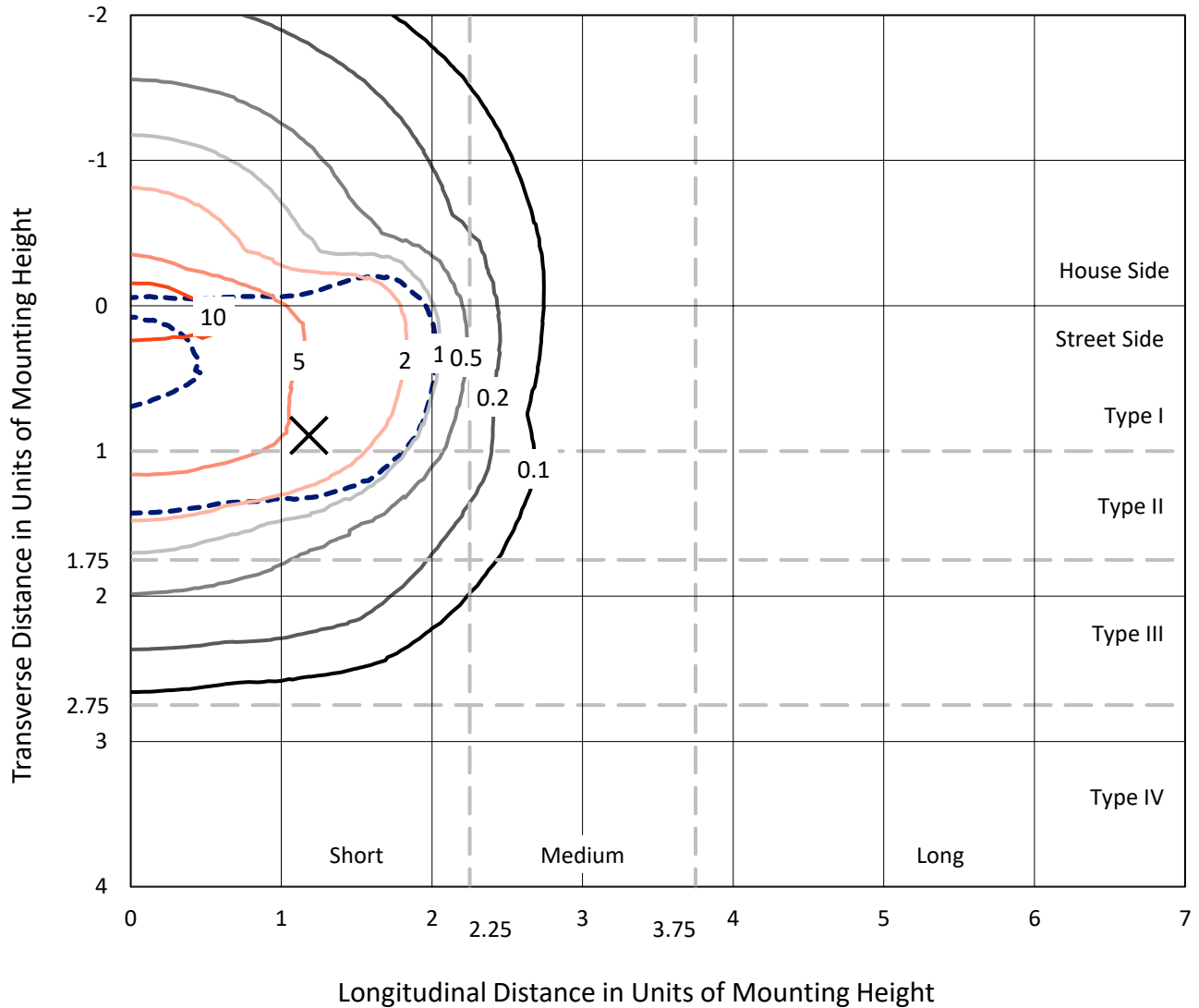
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532600
 CATALOG NUMBER: GALN-SA8A-727-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

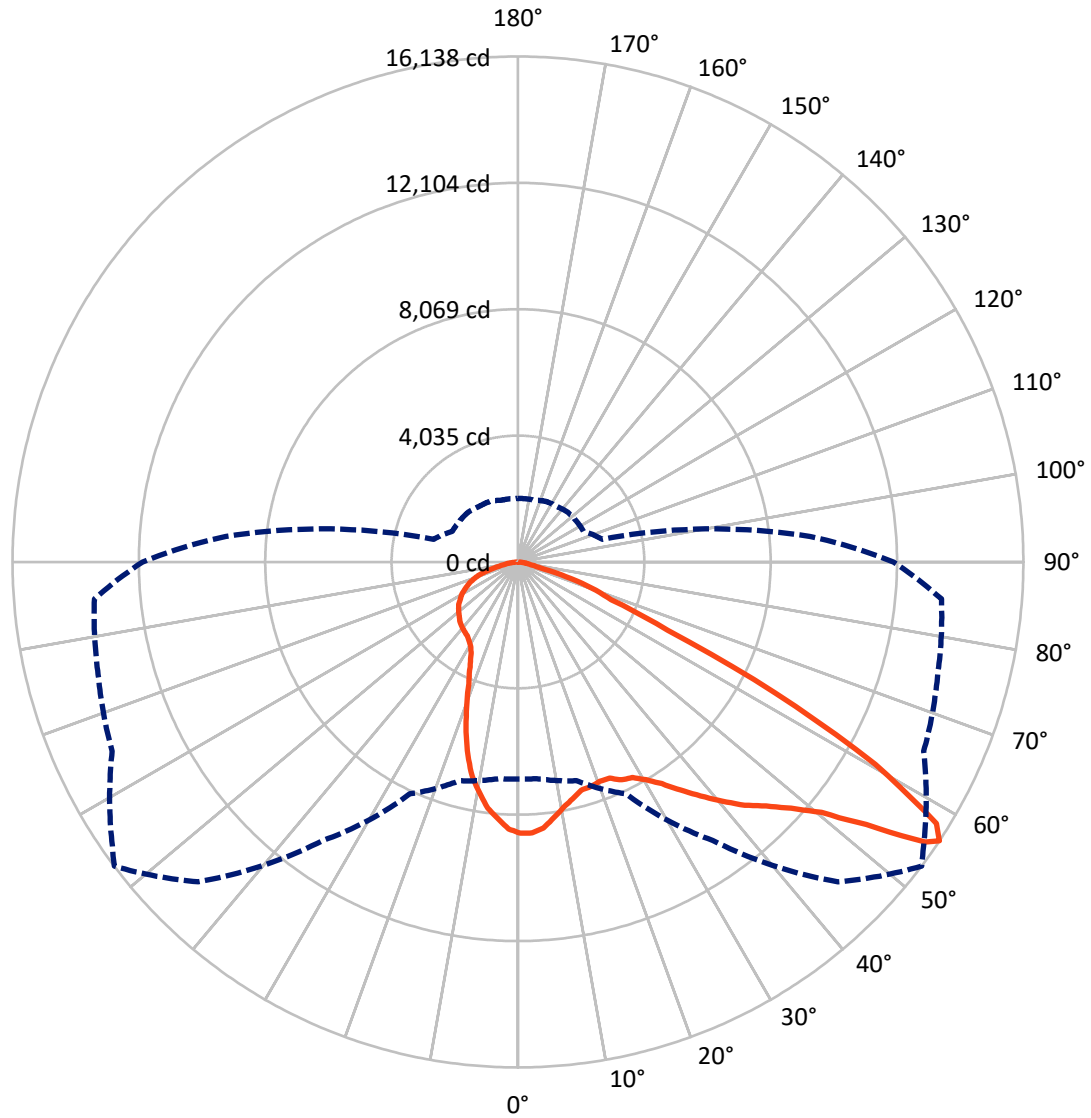
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

REPORT NUMBER: P532600
CATALOG NUMBER: GALN-SA8A-727-U-SL2-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA8A-727-U-SL2-GRSWH

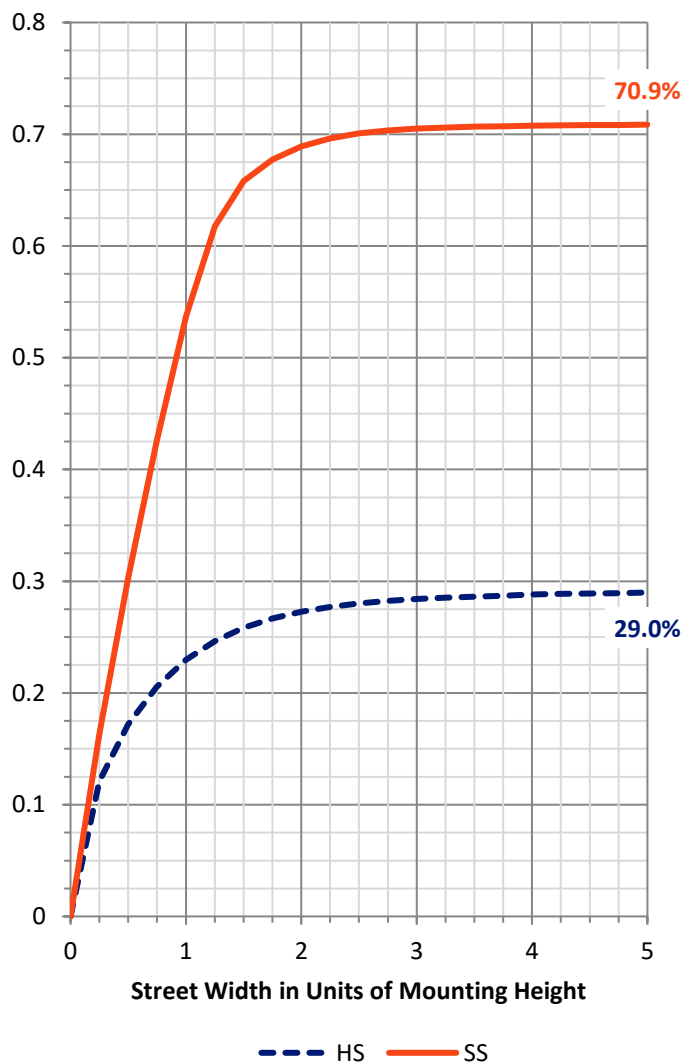
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7638.7	0.0	7638.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	18537.3	0.0	18537.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	26176.0	0.0	26176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.7	2.9
10°-20°	1914.8	7.3
20°-30°	2823.5	10.8
30°-40°	4034.3	15.4
40°-50°	5552.6	21.2
50°-60°	6561.7	25.1
60°-70°	3497.0	13.4
70°-80°	887.2	3.4
80°-90°	138.3	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°	26176.0	100.0
0°-180°	26176.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532600

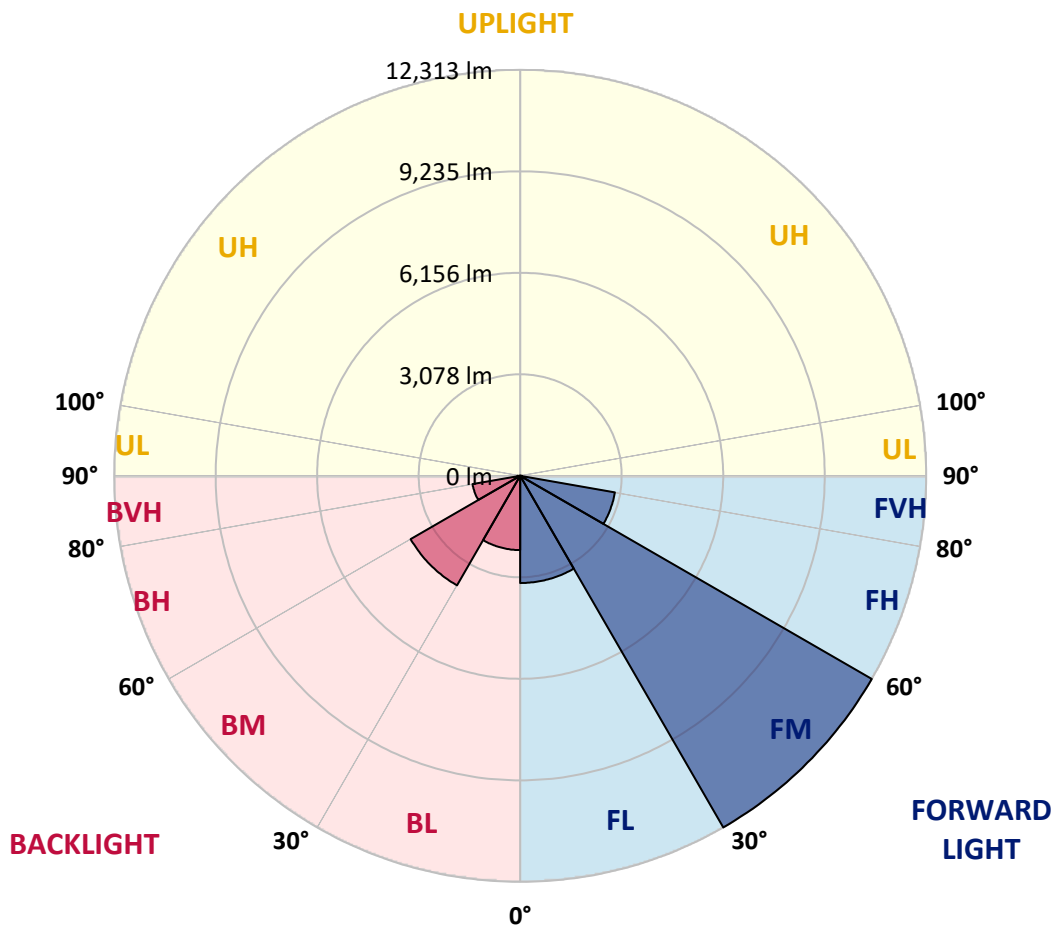
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.0	12.4			
FM (30°-60°)	12312.7	47.0			
FH (60°-80°)	2917.0	11.1			G2/5000
FVH (80°-90°)	55.6	0.2			G1/100
BL (0°-30°)	2253.0	8.6	B3/2500		
BM (30°-60°)	3835.9	14.7	B3/5000		
BH (60°-80°)	1467.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	82.7	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





REPORT NUMBER: P532600

CATALOG NUMBER: GALN-SA8A-727-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1
2.5°	8552.6	8478.7	8522.4	8505.6	8643.3	8683.6	8663.4	8680.2	8757.4	8720.5	8643.3
5°	7991.8	8095.9	8116.1	8166.4	8247.0	8404.9	8529.1	8562.7	8599.6	8770.9	8754.1
7.5°	7481.4	7551.9	7515.0	7662.8	7837.4	8092.6	8243.7	8270.5	8609.7	8703.7	8774.2
10°	7159.1	7088.6	7256.4	7296.7	7494.9	7787.0	7968.3	8079.1	8388.1	8760.8	8804.4
12.5°	6860.2	6836.7	6937.4	7051.6	7273.2	7575.4	7760.1	7803.8	8280.6	8673.5	8878.3
15°	6638.6	6611.7	6712.5	6796.4	7055.0	7323.6	7558.7	7682.9	8163.1	8623.1	8814.5
17.5°	6464.0	6460.6	6517.7	6668.8	6934.1	7159.1	7538.5	7545.2	8102.6	8700.3	8868.2
20°	6453.9	6450.5	6460.6	6628.5	6870.3	7145.6	7474.7	7535.2	8102.6	8646.6	8871.6
22.5°	6537.9	6484.1	6544.6	6652.0	6826.6	7169.1	7498.2	7632.5	8297.4	8911.9	9022.7
25°	6672.2	6685.6	6719.2	6756.1	6856.9	7222.9	7706.4	7817.2	8525.7	9140.2	9230.9
27.5°	6917.3	6910.6	6924.0	6944.2	7031.5	7273.2	7790.4	8075.8	9002.6	9546.5	9455.9
30°	7276.6	7253.1	7306.8	7377.3	7296.7	7434.4	8069.1	8284.0	9445.8	9956.2	9707.7
32.5°	7602.3	7689.6	7790.4	7820.6	7723.2	7750.1	8438.4	8656.7	9815.2	10459.9	10016.6
35°	8008.6	8079.1	8213.5	8307.5	8290.7	8210.1	8942.1	9230.9	10349.1	10829.3	10342.4
37.5°	8404.9	8488.8	8710.4	8989.1	8834.7	8797.7	9479.4	9717.8	10513.6	11027.4	10580.8
40°	9042.9	9039.5	9422.3	9566.7	9704.4	9640.6	10036.8	10117.4	10600.9	10983.7	10587.5
42.5°	9791.7	9744.7	10134.2	10359.2	10537.1	10543.8	10617.7	10590.9	10641.2	10762.1	10517.0
45°	10503.5	10604.3	10997.2	11400.1	11578.1	11598.2	11108.0	11057.6	10711.7	10698.3	10382.7
47.5°	11373.2	11396.7	11719.1	12249.7	12662.7	12521.7	11742.6	11631.8	11020.7	11124.8	10607.6
50°	11423.6	11598.2	11887.0	12511.6	13780.9	13743.9	12565.3	12357.1	11517.6	11729.2	11235.6
52.5°	10369.2	10328.9	10671.4	11692.2	13696.9	14959.5	13928.6	13431.6	12585.5	12424.3	12253.0
55°	7901.2	7995.2	8297.4	9328.3	11893.7	14976.3	15785.5	15379.2	13727.1	13451.8	13253.7
56°	6930.7	6944.2	7229.6	8169.8	10852.8	14442.4	16138.1	15809.0	14294.6	13874.9	13572.7
57.5°	5745.4	5668.2	5815.9	6329.7	9160.4	13314.1	15752.0	16074.3	14959.5	14331.6	13911.8
60°	4523.1	4506.3	4445.9	4539.9	5789.0	10030.1	13112.6	13838.0	14892.3	13901.8	13324.2
62.5°	3693.7	3609.8	3730.6	3865.0	4022.8	6222.2	9214.1	9640.6	11823.2	11097.9	10009.9
65°	2864.3	2824.0	2975.1	3411.6	3505.7	3952.3	5248.4	5577.5	6981.1	6856.9	6037.5
67.5°	1971.1	1977.8	2108.8	2773.6	3250.5	3210.2	3213.5	3384.8	3643.3	2706.5	2357.3
70°	1249.1	1245.8	1316.3	1786.4	2615.8	2642.7	2508.4	2458.0	2330.4	1410.3	1494.3
72.5°	802.5	779.0	816.0	987.2	1353.2	1564.8	1611.8	1642.0	1349.9	1108.1	1202.1
75°	453.3	429.8	416.4	460.0	533.9	617.9	678.3	698.4	782.4	839.5	889.8
77.5°	137.7	124.2	151.1	201.5	265.3	355.9	433.2	446.6	527.2	594.4	644.7
80°	60.4	67.2	94.0	134.3	188.0	251.8	305.6	325.7	379.4	429.8	443.2
82.5°	36.9	40.3	63.8	90.7	131.0	178.0	218.3	225.0	278.7	319.0	329.1
85°	13.4	16.8	33.6	53.7	83.9	114.2	114.2	124.2	114.2	114.2	124.2
87.5°	0.0	0.0	3.4	6.7	6.7	10.1	13.4	13.4	16.8	20.1	23.5
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°	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1	8660.1
2.5°	8683.6	8666.8	8639.9	8542.5	8532.5	8502.2	8334.3	8307.5	8334.3	8253.7	8260.5
5°	8666.8	8717.1	8515.7	8418.3	8237.0	8106.0	7954.9	7877.7	7740.0	7652.7	7750.1
7.5°	8740.6	8720.5	8468.7	8257.1	7985.1	7652.7	7387.4	7236.3	6994.5	6927.4	6977.7
10°	8713.8	8606.3	8310.8	8032.1	7518.4	7226.2	6796.4	6380.0	6151.7	6034.2	6017.4
12.5°	8676.8	8646.6	8153.0	7672.8	7132.2	6517.7	5913.3	5520.4	5147.7	4986.5	5010.0
15°	8720.5	8465.3	7857.5	7249.7	6531.1	5725.2	5073.8	4566.8	4308.2	4204.1	4204.1
17.5°	8700.3	8378.0	7716.5	6776.3	5866.3	4912.6	4197.4	3891.8	3784.4	3784.4	3814.6
20°	8710.4	8435.1	7431.1	6302.8	5080.5	4136.9	3616.5	3505.7	3552.7	3569.5	3586.2
22.5°	8767.5	8247.0	7152.4	5782.3	4351.9	3539.2	3284.0	3287.4	3371.3	3462.0	3445.2
25°	8838.0	8173.2	6813.2	5265.2	3794.4	3247.1	3166.5	3156.4	3220.2	3267.2	3274.0
27.5°	8777.6	8045.6	6467.3	4620.5	3337.8	3052.3	3035.6	3042.3	3062.4	3156.4	3126.2
30°	8975.7	8082.5	6034.2	4079.9	3085.9	2988.5	2968.4	2958.3	2988.5	3015.4	2991.9
32.5°	9220.8	7951.5	5711.8	3559.4	2961.7	2941.5	2901.2	2887.8	2904.6	2877.7	2891.2
35°	9328.3	7928.0	5292.1	3186.7	2864.3	2847.5	2824.0	2820.6	2824.0	2800.5	2780.4
37.5°	9388.7	8038.8	4811.9	3015.4	2803.9	2820.6	2766.9	2760.2	2699.8	2713.2	2723.3
40°	9492.8	7867.6	4422.4	2850.9	2766.9	2733.3	2686.3	2676.3	2636.0	2612.5	2636.0
42.5°	9341.7	7817.2	4039.6	2780.4	2713.2	2676.3	2642.7	2585.6	2572.2	2552.0	2538.6
45°	9220.8	7528.4	3697.1	2693.0	2649.4	2629.2	2565.4	2505.0	2454.6	2474.8	2444.6
47.5°	9311.5	7427.7	3357.9	2619.2	2562.1	2538.6	2474.8	2427.8	2377.4	2353.9	2347.2
50°	9674.1	7615.7	3072.5	2565.4	2488.2	2474.8	2390.8	2337.1	2290.1	2273.3	2280.0
52.5°	10540.5	8129.5	2877.7	2454.6	2417.7	2357.3	2310.2	2243.1	2212.9	2159.1	2192.7
55°	11638.5	8965.6	2827.4	2350.5	2330.4	2276.7	2212.9	2162.5	2105.4	2061.8	2051.7
56°	11991.1	9365.2	2787.1	2310.2	2276.7	2246.4	2162.5	2132.3	2041.6	2031.5	2024.8
57.5°	12276.5	9717.8	2793.8	2233.0	2199.4	2172.6	2122.2	2048.3	1987.9	1950.9	1967.7
60°	11631.8	9096.6	2666.2	2115.5	2108.8	2058.4	1987.9	1954.3	1880.4	1836.8	1826.7
62.5°	8646.6	6175.2	2162.5	1964.4	1961.0	1907.3	1826.7	1789.8	1776.3	1715.9	1715.9
65°	4979.8	3871.7	1870.4	1840.1	1813.3	1759.5	1679.0	1648.7	1615.2	1595.0	1578.2
67.5°	2125.6	2008.0	1699.1	1695.7	1665.5	1598.4	1517.8	1470.8	1427.1	1386.8	1407.0
70°	1541.3	1564.8	1534.6	1517.8	1480.8	1396.9	1326.4	1269.3	1202.1	1175.3	1195.4
72.5°	1222.3	1272.6	1316.3	1319.7	1276.0	1178.6	1101.4	1024.2	950.3	913.4	930.1
75°	926.8	960.4	1004.0	1014.1	950.3	883.1	809.3	728.7	671.6	627.9	634.6
77.5°	668.2	661.5	701.8	695.1	664.9	617.9	550.7	476.8	413.0	372.7	376.1
80°	456.7	466.7	490.3	486.9	450.0	419.7	369.4	308.9	261.9	228.3	221.6
82.5°	319.0	335.8	355.9	339.1	308.9	278.7	241.8	198.1	161.2	134.3	127.6
85°	114.2	131.0	151.1	161.2	171.3	164.5	137.7	110.8	80.6	67.2	63.8
87.5°	23.5	26.9	30.2	30.2	30.2	26.9	23.5	23.5	20.1	10.1	10.1
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)