

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: P534003

Luminaire Tested: **GALN-SA9C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31112 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

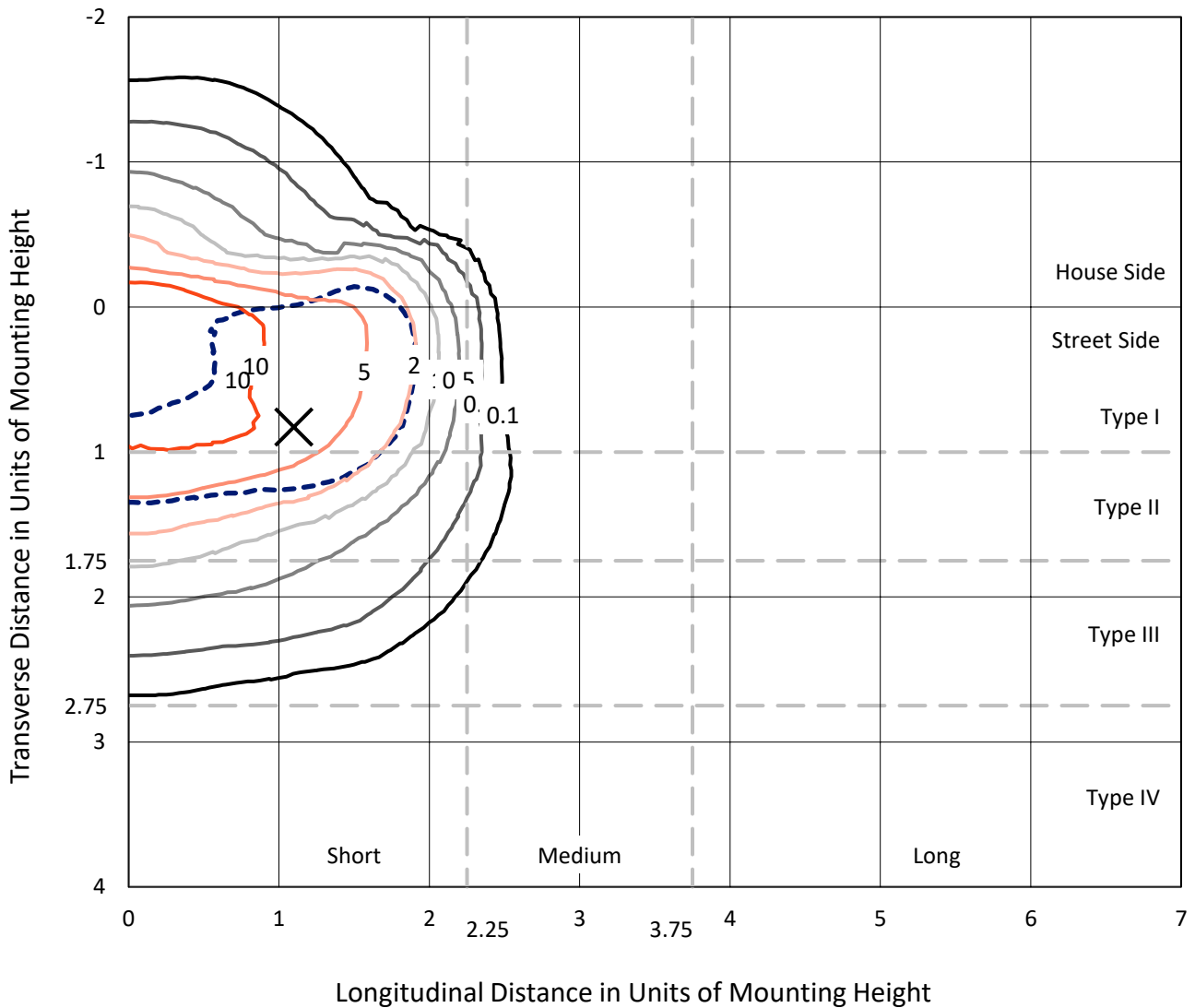
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P534003  
 CATALOG NUMBER: GALN-SA9C-727-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

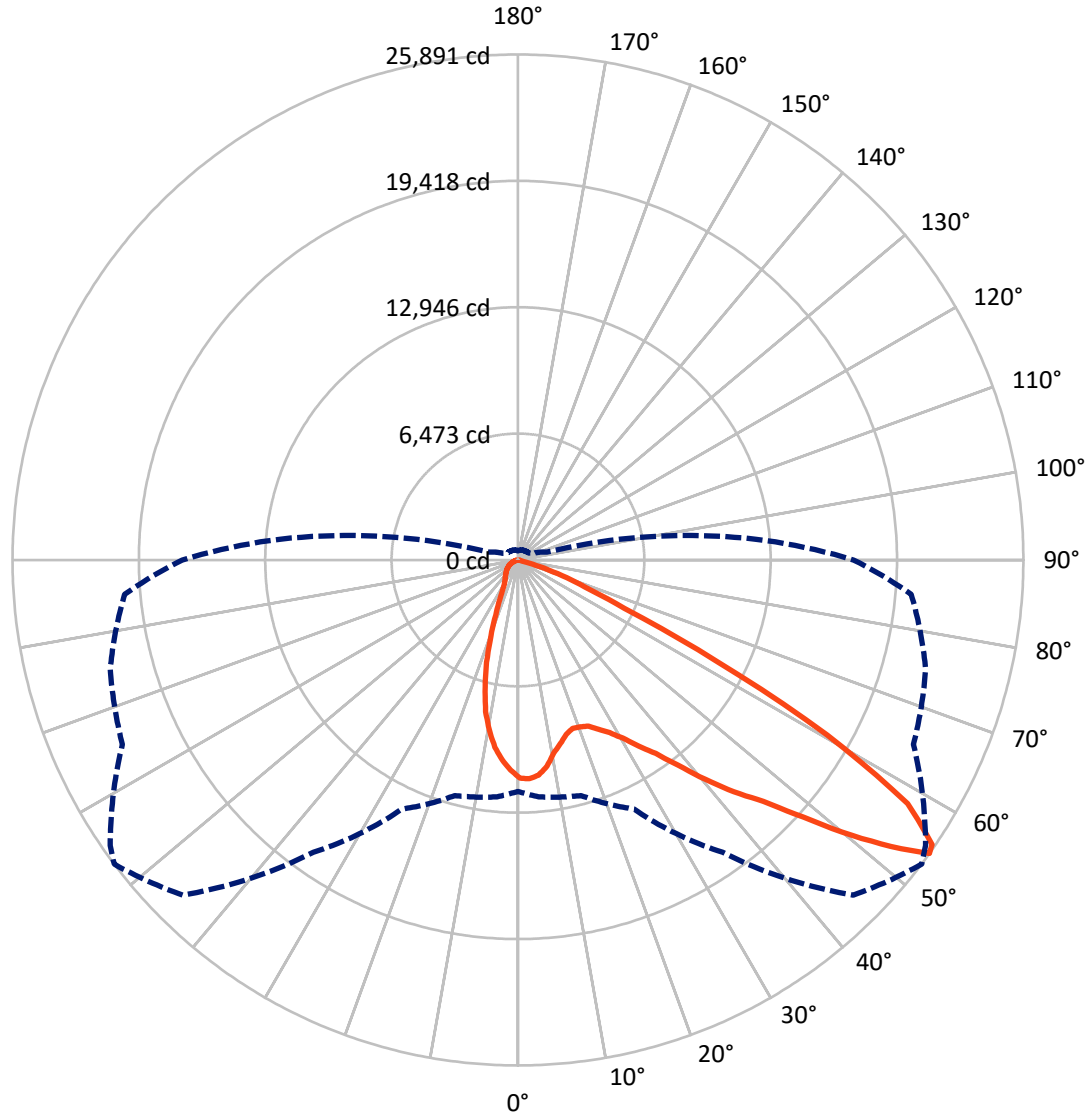
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P534003  
CATALOG NUMBER: GALN-SA9C-727-U-SL2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P534003  
 CATALOG NUMBER: GALN-SA9C-727-U-SL2-GRSBK

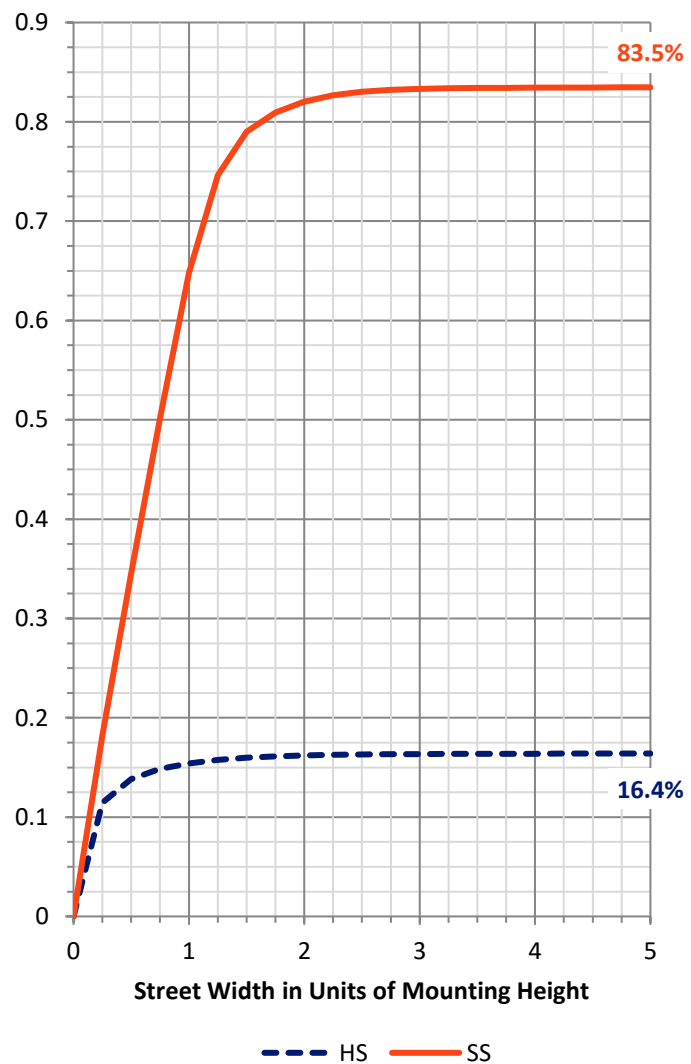
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5147.6	0.0	5147.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	25964.4	0.0	25964.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	31112.0	0.0	31112.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	958.8	3.1
10°-20°	2198.2	7.1
20°-30°	3124.1	10.0
30°-40°	4821.3	15.5
40°-50°	7559.3	24.3
50°-60°	8781.2	28.2
60°-70°	3318.1	10.7
70°-80°	315.5	1.0
80°-90°	35.5	0.1
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°	31112.0	100.0
0°-180°	31112.0	100.0

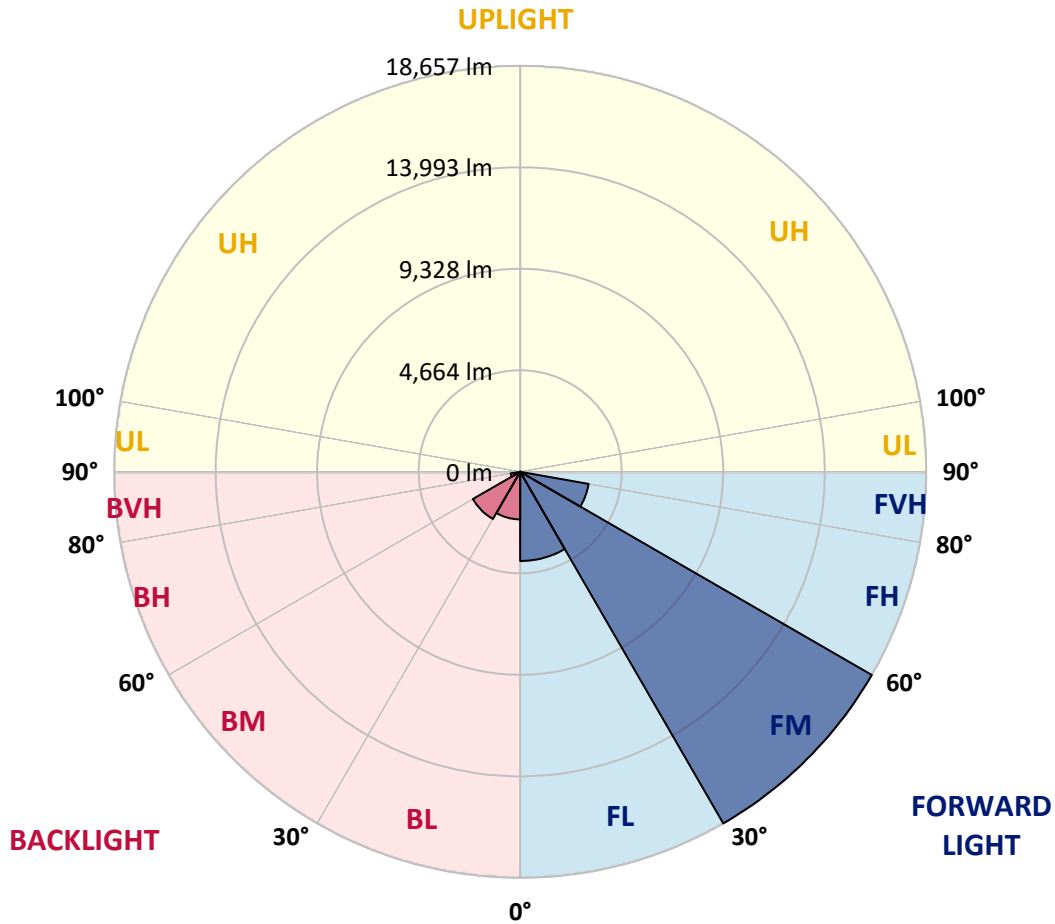


REPORT NUMBER: P534003  
 CATALOG NUMBER: GALN-SA9C-727-U-SL2-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4096.6	13.2			
FM (30°-60°)	18656.9	60.0			
FH (60°-80°)	3192.6	10.3			G2/5000
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	2184.4	7.0	B3/2500		
BM (30°-60°)	2505.0	8.1	B3/5000		
BH (60°-80°)	441.0	1.4	B1/500		G1/500
BVH (80°-90°)	17.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





REPORT NUMBER: P534003

CATALOG NUMBER: GALN-SA9C-727-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9
2.5°	11116.9	11018.4	11116.9	11128.5	11198.1	11261.8	11221.3	11314.0	11261.8	11203.9	11186.5
5°	10218.5	10351.9	10357.7	10566.3	10519.9	10902.5	11070.6	11024.2	11308.2	11290.8	11250.3
7.5°	9412.9	9360.7	9430.3	9673.7	9980.9	10421.4	10664.8	10659.1	11064.8	11354.6	11325.6
10°	8665.2	8659.4	8804.3	8995.6	9256.4	9720.1	10056.3	10224.3	10856.1	11296.6	11360.4
12.5°	8160.9	8137.7	8294.2	8450.7	8862.3	9221.6	9650.5	9731.7	10456.2	11093.8	11198.1
15°	7830.5	7882.7	7894.3	8195.7	8456.5	8931.8	9268.0	9436.1	10270.7	10931.5	11331.4
17.5°	7772.6	7842.1	7847.9	8097.2	8375.4	8775.3	9070.9	9297.0	10114.2	11012.6	11337.2
20°	7888.5	7847.9	7882.7	8039.2	8311.6	8694.2	9123.1	9198.4	10062.1	11053.2	11401.0
22.5°	8218.9	8207.3	8120.4	8247.9	8439.1	8839.1	9244.8	9360.7	10212.8	11261.8	11453.1
25°	8584.0	8647.8	8566.7	8549.3	8682.6	9076.7	9615.8	9766.5	10717.0	11638.6	11615.4
27.5°	9268.0	9204.2	9204.2	9123.1	9088.3	9279.6	10015.7	10264.9	11279.2	12125.5	11800.9
30°	9922.9	9992.5	9940.3	9969.3	9737.5	9720.1	10583.7	10890.9	12276.2	12867.4	12195.0
32.5°	10960.4	10867.7	10954.7	10879.3	10572.1	10259.1	11354.6	11673.4	13481.8	13719.4	12786.2
35°	11824.1	11783.5	12154.4	12142.9	11644.4	11337.2	12171.8	12647.1	14322.2	14739.5	13481.8
37.5°	13052.8	12977.5	13400.6	13603.5	13157.2	12699.3	13342.7	13893.3	15104.7	15556.8	14194.7
40°	14316.4	14507.7	15075.7	15411.9	14936.6	14328.0	14774.3	14942.4	15626.3	16090.0	14681.6
42.5°	15916.1	16194.3	16774.0	17063.8	17023.2	16362.4	16229.1	16223.3	16003.1	15939.3	15040.9
45°	17452.1	17347.8	18240.4	18872.1	19382.2	19190.9	17631.8	17457.9	16600.1	16165.4	15133.7
47.5°	18124.4	18089.7	18698.3	19822.7	21561.5	21799.2	19672.0	18999.7	17608.6	17115.9	15637.9
50°	17255.0	17434.7	18037.5	19283.7	21949.9	23764.1	22175.9	21271.7	18785.2	18275.1	16831.9
52.5°	14414.9	14536.7	15110.5	16692.8	20628.4	24923.3	24575.5	24053.9	20947.2	20100.9	18912.7
54°	11853.1	12177.6	12490.6	14078.8	18275.1	24279.9	25891.2	25491.3	22355.6	21619.5	20222.6
55°	10322.9	10514.1	10740.2	12322.5	16646.4	23190.2	25740.5	25775.3	23300.4	22094.8	21103.6
57.5°	7540.7	7674.1	7442.2	8143.5	11429.9	18831.6	23543.8	24482.8	24575.5	22807.7	21642.7
60°	5761.3	5819.3	5558.5	5668.6	7106.0	12925.3	18211.4	19341.6	22170.1	19932.8	18333.1
62.5°	4468.8	4480.4	4474.6	4665.9	4897.7	7604.5	11389.4	12392.1	15284.3	14154.1	12450.1
65°	3292.2	3240.0	3332.8	3912.4	4179.0	4781.8	5999.0	6729.3	8305.8	7013.3	5013.6
67.5°	2133.0	2150.4	2243.1	2909.6	3582.0	3668.9	3692.1	3634.2	3640.0	2005.5	1257.8
70°	1280.9	1309.9	1280.9	1646.1	2561.9	2631.4	2405.4	2347.4	1831.6	475.3	469.5
72.5°	759.3	718.7	643.4	707.1	1066.5	1275.1	1147.6	1141.8	718.7	278.2	278.2
75°	318.8	289.8	237.6	214.5	284.0	272.4	272.4	243.4	191.3	185.5	173.9
77.5°	63.8	63.8	46.4	52.2	69.6	81.1	98.5	98.5	115.9	115.9	110.1
80°	0.0	5.8	17.4	34.8	52.2	75.3	86.9	86.9	98.5	98.5	81.1
82.5°	0.0	5.8	17.4	34.8	46.4	69.6	86.9	86.9	98.5	104.3	86.9
85°	0.0	5.8	17.4	29.0	46.4	58.0	58.0	52.2	40.6	34.8	23.2
87.5°	0.0	0.0	5.8	11.6	5.8	11.6	11.6	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P534003

CATALOG NUMBER: GALN-SA9C-727-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9	11174.9
2.5°	11227.1	11221.3	11082.2	10856.1	10804.0	10612.7	10589.5	10473.6	10537.3	10322.9	10299.7
5°	11134.3	11064.8	10896.7	10751.8	10328.7	10027.3	9789.6	9499.8	9331.7	9360.7	9250.6
7.5°	11267.6	11088.0	10792.4	10288.1	9772.2	9244.8	8960.8	8369.6	8155.1	7836.3	7790.0
10°	11128.5	10995.2	10537.3	9702.7	8989.8	8230.5	7563.9	6909.0	6410.5	6196.0	6149.7
12.5°	11116.9	10885.1	10120.0	9192.6	8160.9	7071.3	6103.3	5286.1	4793.4	4515.2	4451.4
15°	10937.3	10659.1	9650.5	8404.4	6978.5	5622.2	4567.3	3779.1	3402.3	3240.0	3286.4
17.5°	10954.7	10537.3	9181.0	7569.7	5813.5	4126.8	3118.3	2712.6	2614.0	2654.6	2654.6
20°	10937.3	10264.9	8613.0	6607.6	4451.4	2863.3	2289.5	2144.6	2208.3	2335.8	2306.9
22.5°	10844.5	10137.4	8091.4	5593.2	3274.8	2121.4	1837.4	1843.2	1941.7	2098.2	2133.0
25°	10914.1	9853.4	7430.6	4567.3	2388.0	1692.5	1593.9	1634.5	1738.8	1854.8	1877.9
27.5°	10861.9	9650.5	6740.9	3547.2	1744.6	1454.8	1449.0	1495.4	1541.8	1628.7	1628.7
30°	10919.9	9465.1	6062.7	2637.2	1437.4	1333.1	1309.9	1344.7	1391.1	1408.5	1402.7
32.5°	11134.3	9325.9	5280.3	1970.7	1269.3	1217.2	1217.2	1217.2	1211.4	1234.6	1240.4
35°	11603.8	9349.1	4590.5	1524.4	1159.2	1118.6	1101.3	1078.1	1066.5	1078.1	1083.9
37.5°	12113.9	9337.5	3877.6	1298.3	1078.1	1043.3	1002.7	968.0	962.2	973.7	956.4
40°	12339.9	9447.7	3216.8	1165.0	1002.7	962.2	898.4	869.4	875.2	886.8	875.2
42.5°	12647.1	9482.4	2787.9	1060.7	933.2	869.4	828.8	794.1	788.3	805.7	799.9
45°	12641.3	9285.4	2335.8	1002.7	869.4	799.9	747.7	718.7	718.7	730.3	736.1
47.5°	13012.3	9256.4	2005.5	950.6	823.0	753.5	689.7	666.6	660.8	660.8	649.2
50°	13875.9	9662.1	1750.4	892.6	765.1	701.3	649.2	620.2	597.0	585.4	579.6
52.5°	15562.6	10925.7	1553.4	823.0	701.3	649.2	602.8	579.6	550.6	521.7	515.9
54°	17197.1	12229.8	1541.8	765.1	649.2	614.4	573.8	562.2	527.4	486.9	475.3
55°	17933.2	12989.1	1582.3	718.7	614.4	591.2	556.4	544.8	510.1	463.7	457.9
57.5°	18541.8	13284.7	1559.2	597.0	556.4	550.6	521.7	504.3	463.7	399.9	388.3
60°	14925.0	10044.7	1118.6	527.4	510.1	498.5	475.3	463.7	411.5	342.0	336.2
62.5°	9430.3	5778.7	712.9	463.7	446.3	428.9	399.9	388.3	342.0	272.4	255.0
65°	4016.7	2393.8	481.1	411.5	382.5	353.6	330.4	313.0	272.4	202.9	197.1
67.5°	1043.3	852.0	399.9	359.4	318.8	278.2	260.8	231.8	185.5	139.1	133.3
70°	469.5	428.9	336.2	301.4	255.0	214.5	191.3	162.3	121.7	92.7	86.9
72.5°	278.2	272.4	255.0	226.0	191.3	162.3	139.1	110.1	81.1	52.2	52.2
75°	173.9	168.1	173.9	156.5	133.3	121.7	104.3	75.3	46.4	23.2	23.2
77.5°	104.3	104.3	104.3	98.5	92.7	92.7	75.3	46.4	23.2	5.8	5.8
80°	81.1	81.1	86.9	81.1	81.1	81.1	63.8	34.8	11.6	0.0	0.0
82.5°	81.1	86.9	98.5	92.7	81.1	69.6	58.0	34.8	11.6	0.0	0.0
85°	23.2	17.4	29.0	40.6	58.0	52.2	40.6	29.0	11.6	0.0	0.0
87.5°	11.6	11.6	11.6	11.6	5.8	5.8	5.8	5.8	5.8	0.0	0.0
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)