

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: P534018

Luminaire Tested: **GALN-SA9C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46530 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

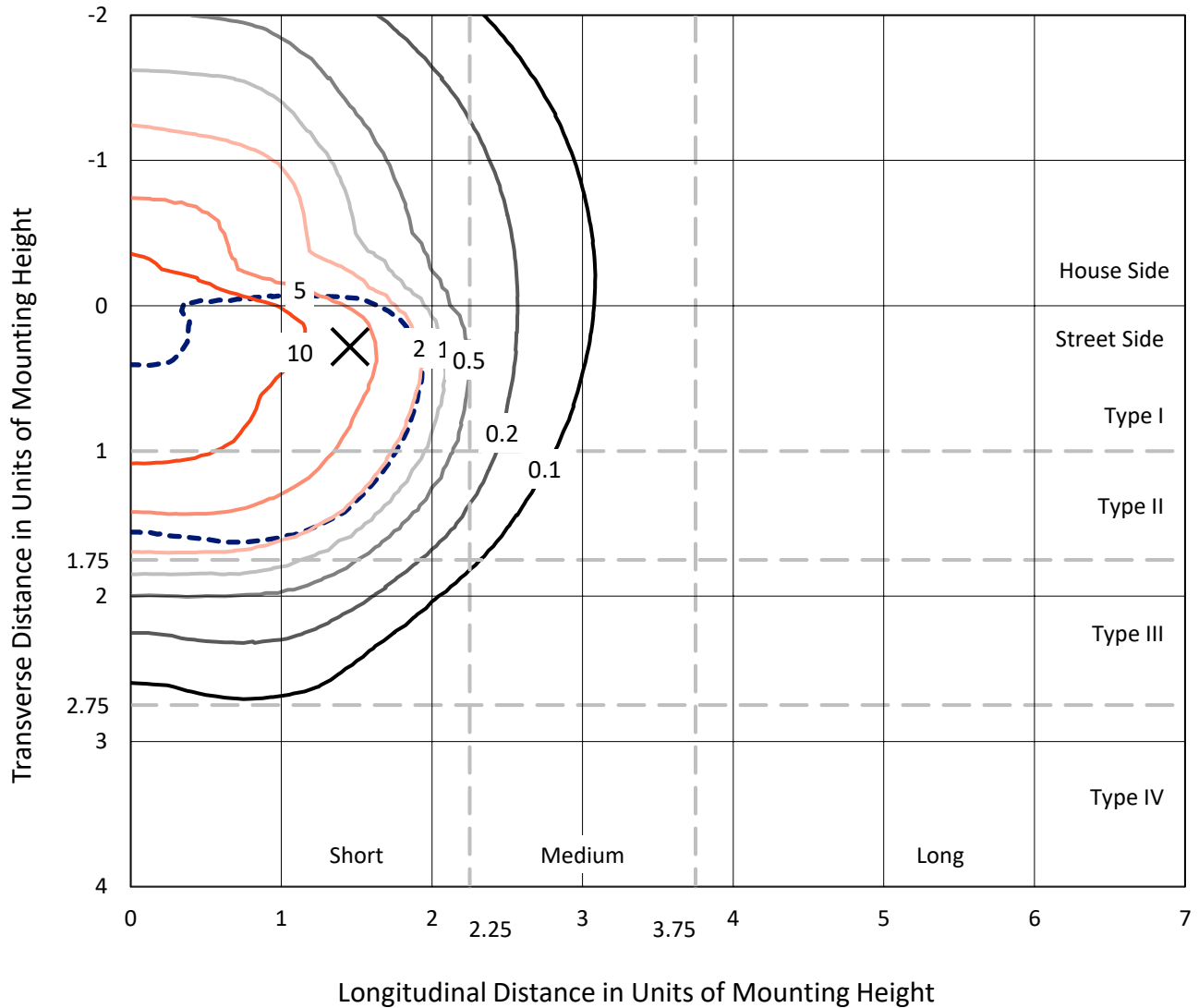
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

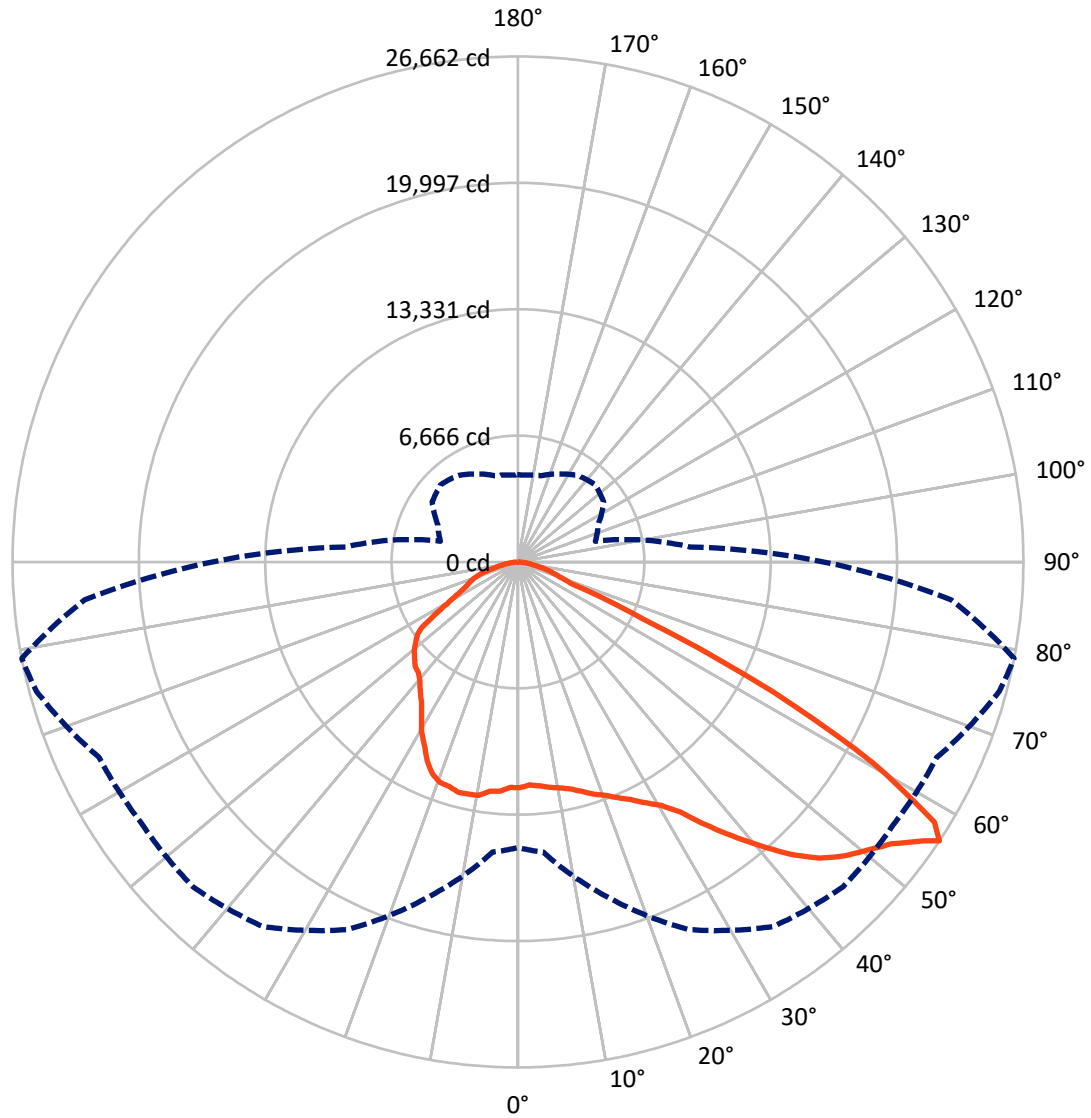
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13741.3	0.0	13741.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	32788.7	0.0	32788.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	46530.0	0.0	46530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1082.4	2.3
10°-20°	2962.3	6.4
20°-30°	5067.8	10.9
30°-40°	7767.1	16.7
40°-50°	10497.2	22.6
50°-60°	12056.4	25.9
60°-70°	5495.7	11.8
70°-80°	1354.9	2.9
80°-90°	246.3	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°	46530.0	100.0
0°-180°	46530.0	100.0

Coefficient of Utilization



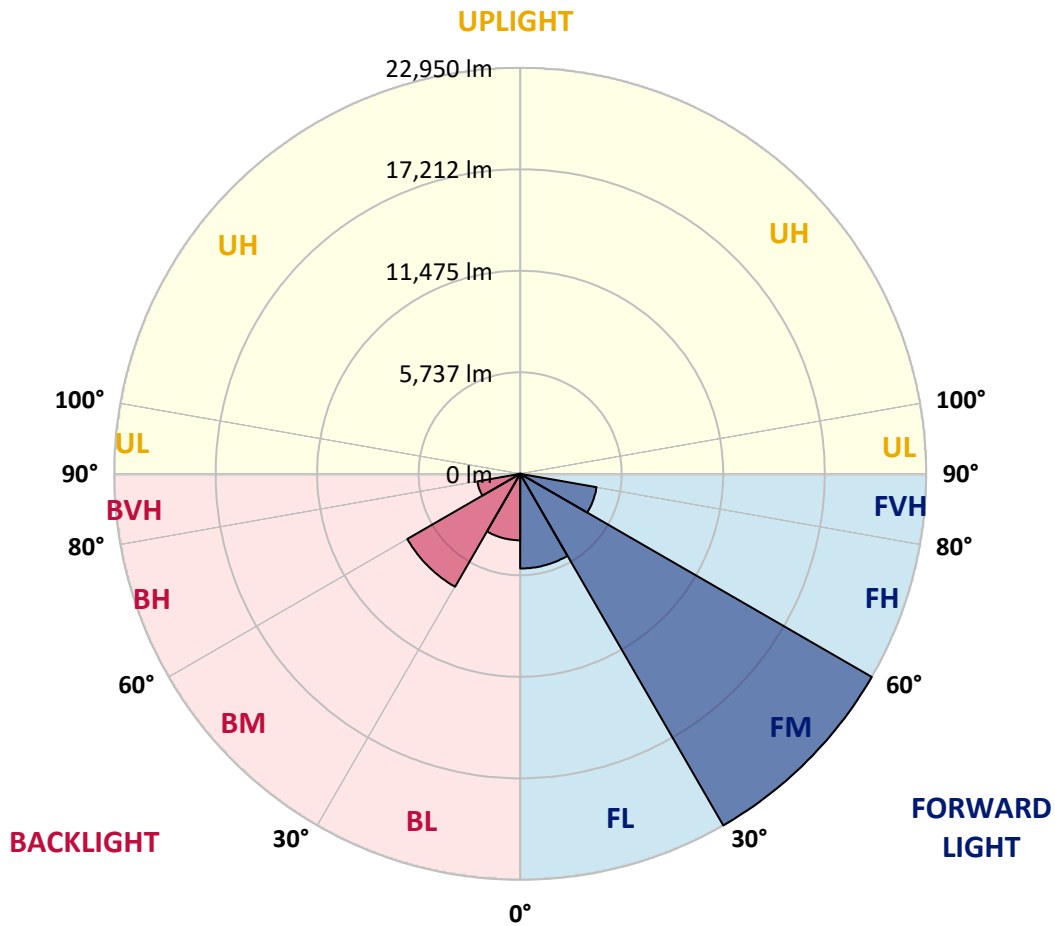
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5353.7	11.5			
FM	(30°-60°)	22950.0	49.3			
FH	(60°-80°)	4386.7	9.4			G2/5000
FVH	(80°-90°)	98.3	0.2			G1/100
BL	(0°-30°)	3758.8	8.1	B4/5000		
BM	(30°-60°)	7370.7	15.8	B4/8500		
BH	(60°-80°)	2463.9	5.3	B3/2500		G3/2500
BVH	(80°-90°)	147.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2
2.5°	11325.6	11296.6	11366.1	11418.3	11482.1	11563.2	11603.8	11627.0	11829.8	11777.7	11934.2
5°	11082.1	11006.8	11059.0	11099.5	11209.7	11308.2	11418.3	11592.2	11777.7	11858.8	12050.1
7.5°	10867.7	10827.1	10815.5	10844.5	10995.2	11122.7	11314.0	11569.0	11870.4	12003.7	12113.8
10°	10514.1	10456.2	10543.1	10734.4	10774.9	11041.6	11261.8	11627.0	11887.8	12119.6	12444.2
12.5°	10357.6	10299.7	10317.1	10427.2	10711.2	10966.2	11227.0	11638.6	12189.2	12281.9	12716.6
15°	10606.9	10548.9	10566.3	10537.3	10809.7	10943.0	11354.6	11870.4	12397.9	12554.3	13018.0
17.5°	11174.9	11180.7	11105.3	11041.6	10977.8	11261.8	11545.8	12009.5	12479.0	12873.1	13220.9
20°	12258.7	12067.5	11916.8	11557.4	11458.9	11580.6	11940.0	12386.3	12809.4	13134.0	13528.1
22.5°	13093.4	13110.8	12896.3	12305.1	12090.7	12142.8	12450.0	12815.2	13278.9	13510.7	13962.8
25°	14304.8	14183.1	13951.2	13481.7	13000.6	13041.2	13267.3	13597.6	13725.2	13887.4	14380.1
27.5°	15411.8	15446.6	14988.7	14548.2	13951.2	13835.3	14241.0	14299.0	14084.5	14391.7	14559.8
30°	16536.3	16507.3	16205.9	15690.0	15104.6	15127.8	15307.5	15023.5	14727.9	14896.0	15011.9
32.5°	17701.3	17370.9	17359.3	16895.6	16449.3	16234.9	16014.6	16153.7	15695.8	15730.6	15620.5
35°	18634.5	18680.8	18414.2	18083.8	17863.6	17486.8	16884.0	17133.3	17046.3	17005.8	16530.5
37.5°	19312.6	19132.9	19266.2	19156.1	18947.4	18478.0	17852.0	18089.6	18130.2	18327.3	17776.6
40°	19869.0	19793.7	20147.2	20205.2	20060.3	19046.0	17921.5	18628.7	19237.2	19666.2	19011.2
42.5°	20135.6	20297.9	20668.9	21115.2	20790.6	19706.7	18280.9	19040.2	20396.5	21074.6	20182.0
45°	20495.0	20286.3	20837.0	21654.2	21660.0	20263.2	18628.7	19596.6	21300.7	22286.0	20981.9
47.5°	20129.8	20234.2	20802.2	21839.7	22106.3	20848.6	19567.6	20384.9	22297.6	23172.8	21723.8
50°	19312.6	19521.3	20558.8	21636.8	22442.5	21468.7	20645.7	21236.9	23219.2	23885.7	21845.5
52.5°	18460.6	18576.5	20199.4	21793.3	22593.2	22268.6	22088.9	22413.5	24343.6	24691.4	21996.2
55°	16142.1	16692.8	19011.2	21723.8	23329.3	23711.8	23572.7	24048.0	25618.8	25966.5	22819.2
56°	15069.9	15359.7	18298.3	21399.2	23474.2	24239.3	24169.7	24384.2	26296.9	26662.0	22946.8
57.5°	13087.6	13110.8	15603.1	19961.8	22929.4	24395.8	24326.2	24494.3	26163.6	25914.4	21828.1
60°	8189.9	8549.2	10618.5	15353.9	19498.1	22633.8	23027.9	21677.4	22059.9	21532.5	16982.6
62.5°	4242.7	4190.6	5564.3	8978.2	12942.7	16205.9	16571.0	16507.3	15916.1	15145.2	11093.7
65°	2115.6	2127.2	2909.6	4445.6	6630.7	8485.5	9505.6	9615.7	8045.0	7401.6	5262.9
67.5°	1536.0	1593.9	2092.4	2718.4	3124.1	3495.0	4283.3	4202.2	3182.1	3025.6	2805.3
70°	1194.0	1246.2	1698.3	2075.0	1883.7	1883.7	2051.8	2121.4	2266.3	2330.0	2405.4
72.5°	869.4	910.0	1298.3	1431.6	1234.6	1327.3	1536.0	1698.3	1849.0	1872.1	1959.1
75°	597.0	631.8	852.0	788.3	741.9	915.8	1124.4	1275.1	1385.3	1443.2	1495.4
77.5°	388.3	399.9	486.9	411.5	475.3	591.2	730.3	857.8	967.9	1014.3	1025.9
80°	173.9	191.3	208.7	260.8	330.4	423.1	521.6	626.0	695.5	712.9	747.7
82.5°	98.5	98.5	127.5	185.5	243.4	307.2	376.7	452.1	533.2	550.6	544.8
85°	52.2	52.2	75.3	110.1	150.7	179.7	173.9	179.7	191.3	220.3	214.5
87.5°	17.4	17.4	23.2	23.2	29.0	34.8	29.0	40.6	52.2	52.2	52.2
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°	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2	11905.2
2.5°	11887.8	11940.0	11870.4	12021.1	12021.1	11992.1	11847.2	11893.6	11928.4	11928.4	11957.3
5°	12113.8	12096.5	12142.8	11963.1	11853.0	11812.4	11574.8	11458.9	11360.4	11354.6	11267.6
7.5°	12241.4	12195.0	12177.6	12044.3	11557.4	11261.8	10751.8	10456.2	10392.4	10166.4	10253.3
10°	12444.2	12531.2	12444.2	11719.7	11041.6	10363.4	9865.0	9407.1	9227.4	9082.5	8995.5
12.5°	12861.5	12821.0	12316.7	11337.2	10386.6	9580.9	8839.0	8358.0	8178.3	8050.8	8039.2
15°	13215.1	13012.2	12241.4	10734.4	9366.5	8508.7	7900.1	7558.1	7477.0	7488.6	7540.7
17.5°	13336.8	13197.7	11847.2	10108.4	8607.2	7598.7	7314.7	7262.5	7337.9	7424.8	7448.0
20°	13528.1	13307.8	11684.9	9256.4	7668.2	7030.7	7013.3	7198.8	7337.9	7465.4	7482.8
22.5°	13928.0	13371.6	11157.5	8450.7	7024.9	6862.6	7030.7	7187.2	7401.6	7505.9	7413.2
25°	14043.9	13232.5	10415.6	7482.8	6619.1	6758.2	6937.9	7152.4	7303.1	7361.0	7401.6
27.5°	14142.5	13018.0	9412.9	6839.4	6491.6	6752.5	6937.9	7117.6	7198.8	7250.9	7297.3
30°	14420.7	12954.3	8543.4	6410.5	6410.5	6636.5	6874.2	6920.5	7030.7	7094.4	7175.6
32.5°	14559.8	12513.8	7650.8	6138.1	6329.3	6694.5	6711.9	6798.8	6804.6	6856.8	6769.8
35°	14925.0	12200.8	6822.0	5941.0	6364.1	6636.5	6723.5	6671.3	6387.3	6248.2	6277.2
37.5°	15191.6	12044.3	6225.0	5917.8	6369.9	6700.3	6746.7	6352.5	6056.9	5825.1	5883.0
40°	15910.3	11656.0	5772.9	5877.2	6422.1	6769.8	6642.3	6213.4	5680.2	5442.5	5402.0
42.5°	16460.9	11377.7	5488.9	5830.9	6462.6	6868.4	6590.2	5935.2	5390.4	5170.1	5228.1
45°	17098.5	11314.0	5338.2	5842.5	6532.2	6920.5	6526.4	5720.7	5141.1	5054.2	5036.8
47.5°	17324.5	10856.1	5175.9	5743.9	6514.8	6903.2	6312.0	5558.5	5048.4	5060.0	5106.4
50°	16947.8	10386.6	5054.2	5541.1	6398.9	6746.7	5975.8	5344.0	4996.2	5141.1	5222.3
52.5°	16466.7	9905.5	4805.0	5268.7	6161.3	6503.2	5819.3	5332.4	4944.1	4897.7	4915.1
55°	16611.6	9511.4	4457.2	4897.7	5778.7	6051.1	5645.4	5222.3	4816.6	4642.7	4700.6
56°	16142.1	9105.7	4231.2	4665.9	5517.9	5761.3	5558.5	5123.8	4712.2	4596.3	4596.3
57.5°	14814.8	7743.6	3935.6	4294.9	4967.3	5257.1	5390.4	5065.8	4596.3	4393.4	4399.2
60°	10925.6	5506.3	3529.8	3784.9	4115.2	4347.1	4967.3	4903.5	4306.5	4167.4	4115.2
62.5°	6735.1	4022.5	3240.0	3338.6	3506.6	3697.9	4335.5	4439.8	3999.3	3848.6	3813.8
65°	3773.3	3077.7	3019.8	3060.3	3141.5	3240.0	3599.4	3831.2	3529.8	3298.0	3286.4
67.5°	2758.9	2753.1	2799.5	2834.3	2869.1	2869.1	2956.0	3048.7	3008.2	2822.7	2805.3
70°	2451.7	2469.1	2503.9	2509.7	2521.3	2480.7	2411.2	2382.2	2428.6	2312.6	2289.5
72.5°	2022.8	2080.8	2121.4	2127.2	2063.4	2011.2	1918.5	1820.0	1785.2	1762.0	1756.2
75°	1553.4	1593.9	1611.3	1605.5	1582.3	1507.0	1396.9	1298.3	1234.6	1165.0	1199.8
77.5°	1049.1	1107.1	1136.0	1136.0	1101.3	985.3	933.2	857.8	794.1	718.7	730.3
80°	736.1	776.7	823.0	817.2	759.3	701.3	626.0	556.4	504.3	446.3	440.5
82.5°	550.6	573.8	597.0	585.4	544.8	486.9	434.7	371.0	313.0	272.4	272.4
85°	197.1	214.5	260.8	272.4	295.6	295.6	249.2	208.7	168.1	139.1	139.1
87.5°	58.0	58.0	63.8	63.8	58.0	63.8	52.2	58.0	63.8	40.6	40.6
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)