

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: P531429

Luminaire Tested: **GALN-SA6D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531429
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-SA6D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA 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: 22393 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

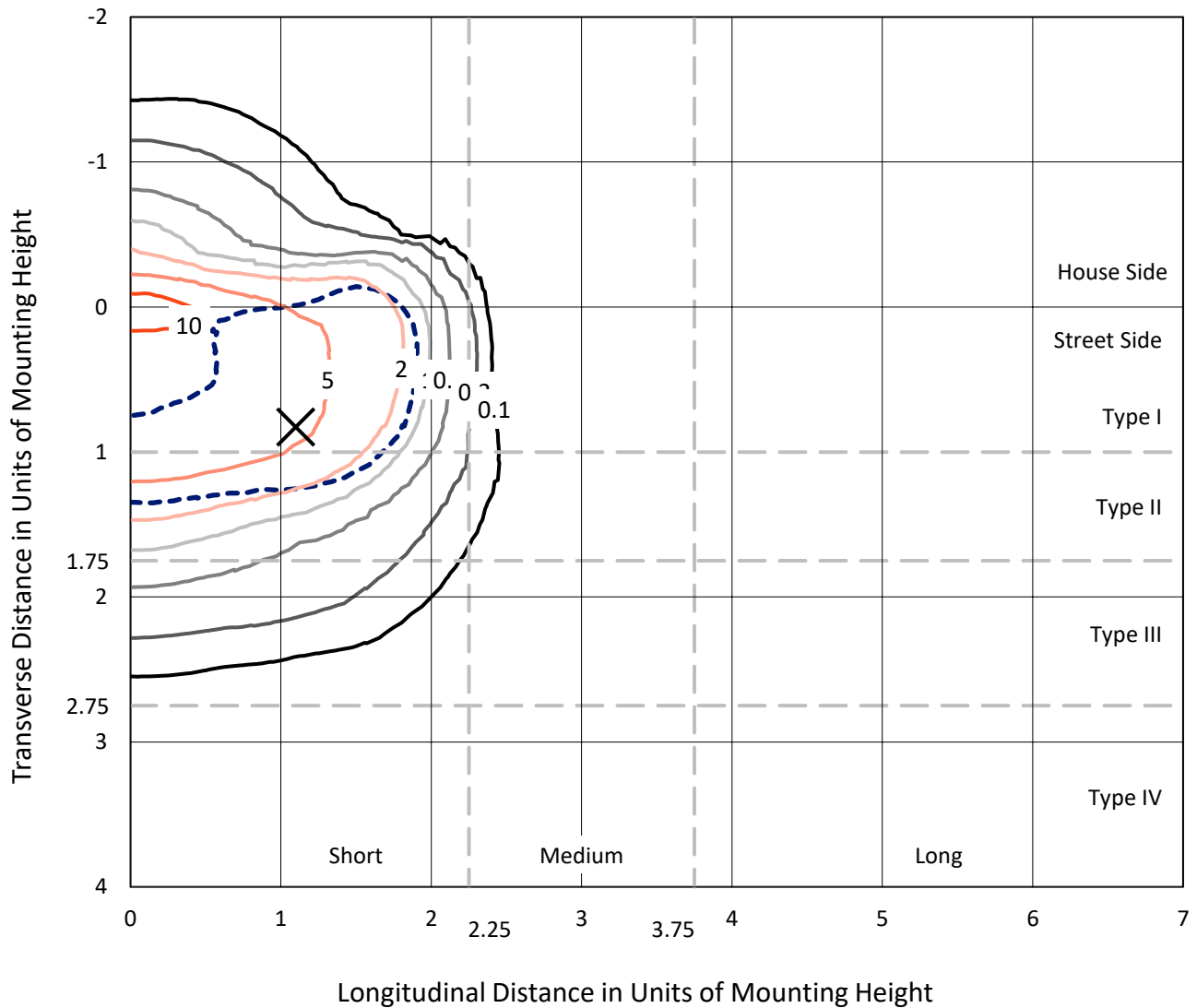
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

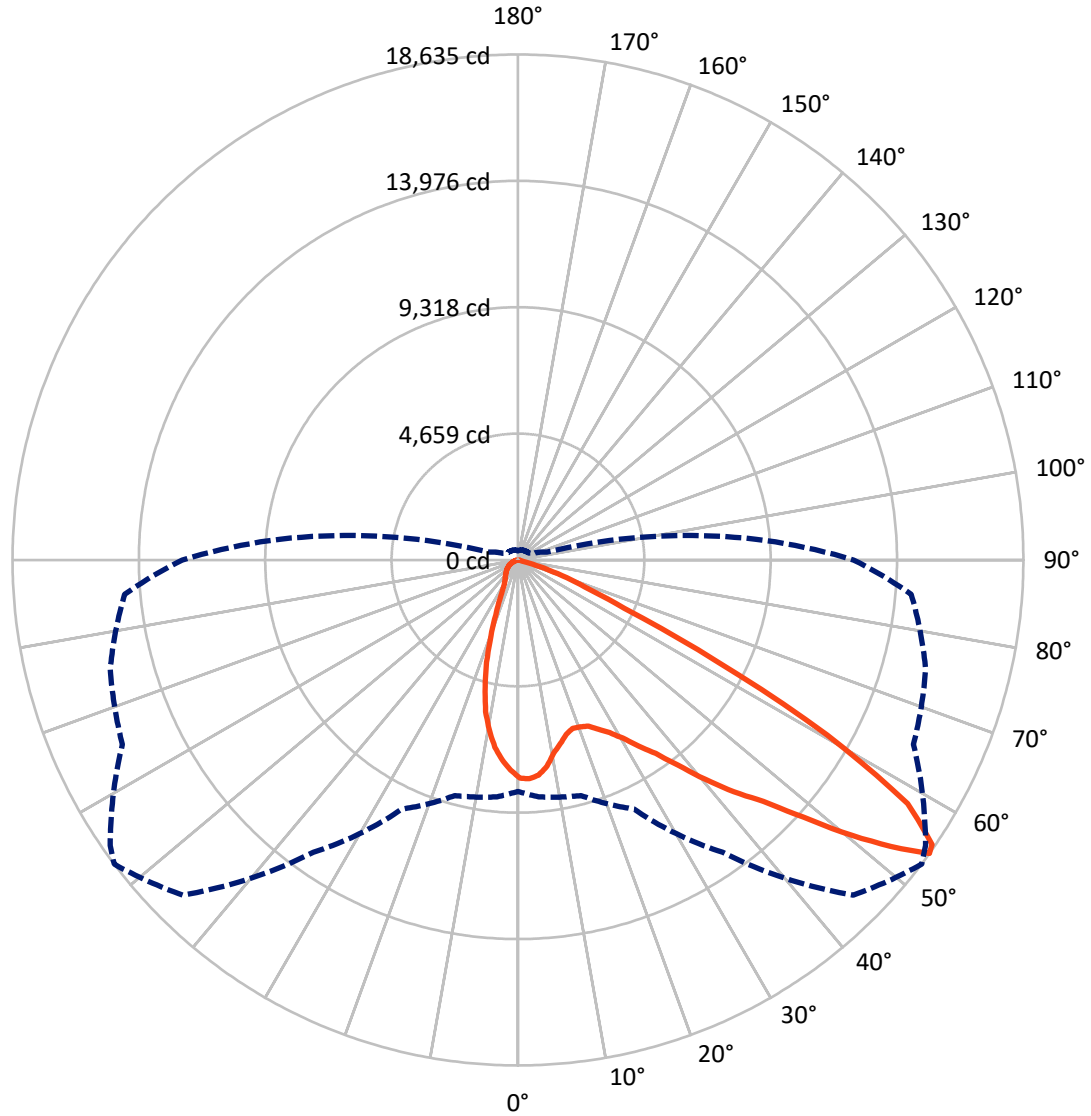
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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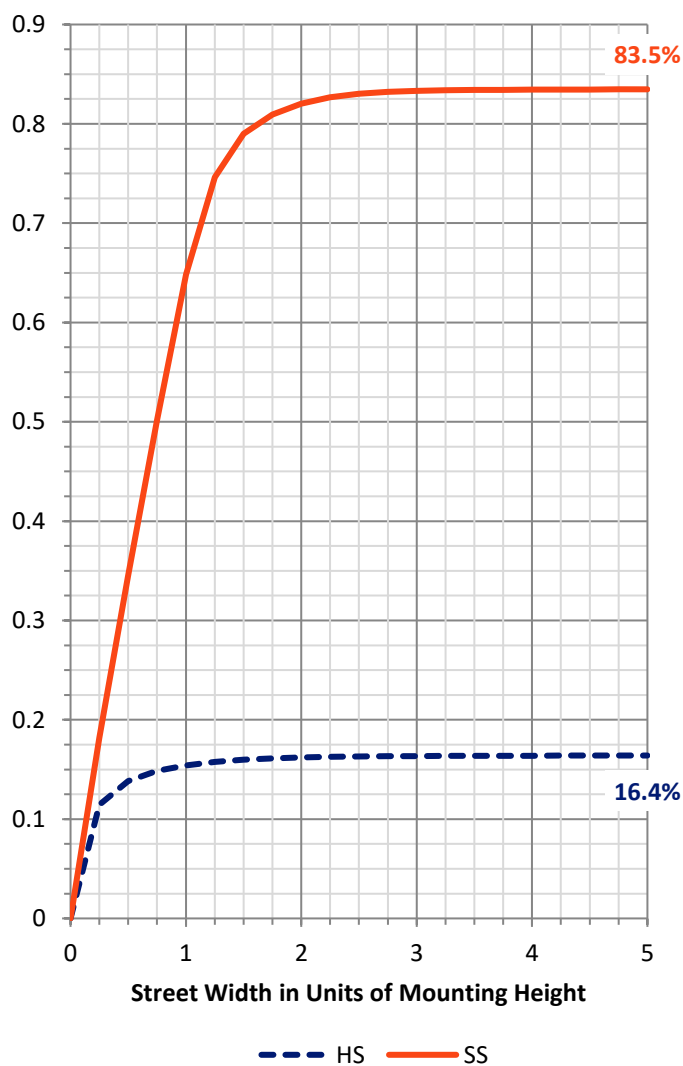
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3705.0	0.0	3705.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18688.0	0.0	18688.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	22393.0	0.0	22393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.1	3.1
10°-20°	1582.1	7.1
20°-30°	2248.6	10.0
30°-40°	3470.2	15.5
40°-50°	5440.9	24.3
50°-60°	6320.3	28.2
60°-70°	2388.2	10.7
70°-80°	227.1	1.0
80°-90°	25.6	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°	22393.0	100.0
0°-180°	22393.0	100.0

Coefficient of Utilization



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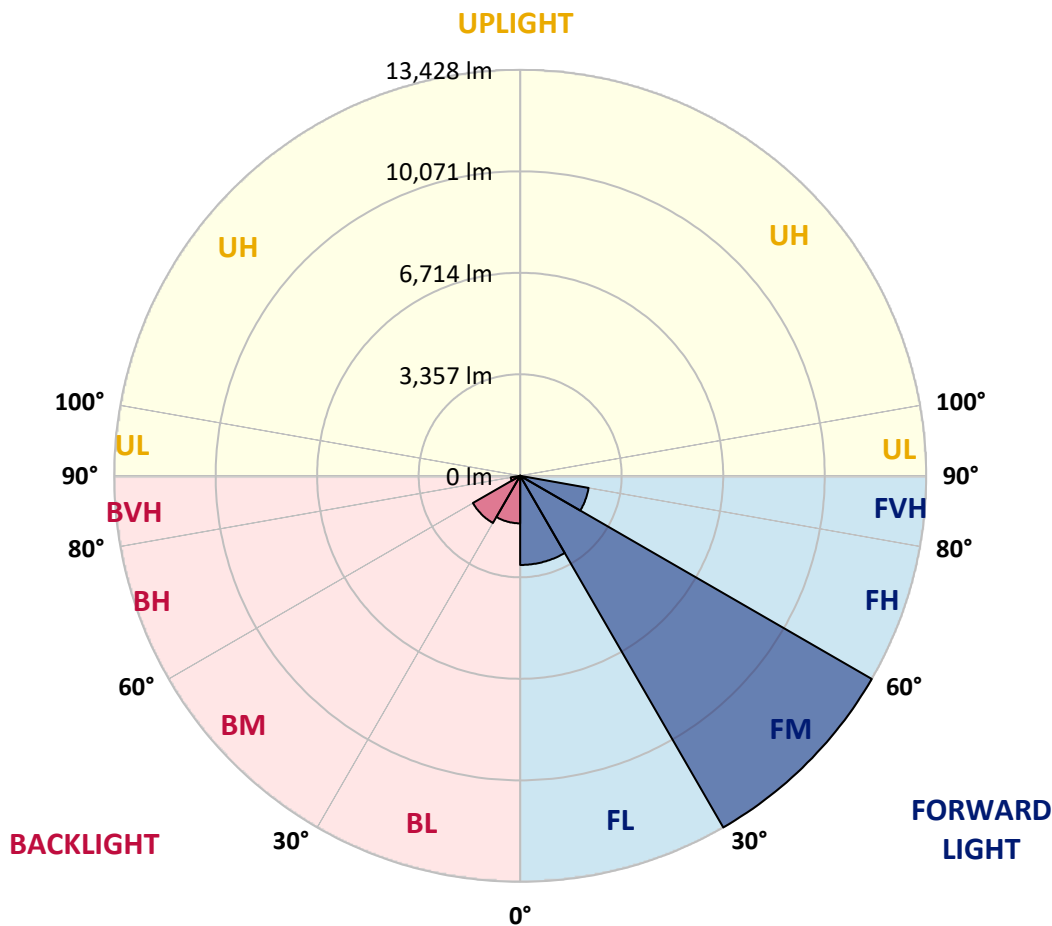
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2948.6	13.2			
FM (30°-60°)	13428.4	60.0			
FH (60°-80°)	2297.9	10.3			G2/5000
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1572.2	7.0	B3/2500		
BM (30°-60°)	1803.0	8.1	B2/2500		
BH (60°-80°)	317.4	1.4	B1/500		G1/500
BVH (80°-90°)	12.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2
2.5°	8001.5	7930.6	8001.5	8009.8	8059.9	8105.8	8076.6	8143.3	8105.8	8064.0	8051.5
5°	7354.8	7450.8	7455.0	7605.2	7571.8	7847.1	7968.1	7934.7	8139.1	8126.6	8097.4
7.5°	6775.0	6737.4	6787.5	6962.7	7183.8	7500.9	7676.1	7671.9	7963.9	8172.5	8151.7
10°	6236.8	6232.6	6336.9	6474.6	6662.3	6996.1	7238.0	7359.0	7813.7	8130.8	8176.7
12.5°	5873.9	5857.2	5969.8	6082.5	6378.6	6637.3	6946.0	7004.4	7525.9	7984.8	8059.9
15°	5636.1	5673.6	5682.0	5898.9	6086.6	6428.7	6670.7	6791.7	7392.4	7868.0	8155.8
17.5°	5594.4	5644.4	5648.6	5828.0	6028.2	6316.1	6528.8	6691.5	7279.8	7926.4	8160.0
20°	5677.8	5648.6	5673.6	5786.3	5982.3	6257.7	6566.4	6620.6	7242.2	7955.6	8205.9
22.5°	5915.6	5907.2	5844.7	5936.4	6074.1	6362.0	6654.0	6737.4	7350.7	8105.8	8243.4
25°	6178.4	6224.3	6165.9	6153.4	6249.3	6533.0	6921.0	7029.4	7713.6	8376.9	8360.2
27.5°	6670.7	6624.8	6624.8	6566.4	6541.3	6679.0	7208.8	7388.2	8118.3	8727.4	8493.7
30°	7142.1	7192.1	7154.6	7175.5	7008.6	6996.1	7617.7	7838.8	8835.8	9261.3	8777.4
32.5°	7888.8	7822.1	7884.7	7830.4	7609.3	7384.0	8172.5	8402.0	9703.6	9874.6	9202.9
35°	8510.4	8481.2	8748.2	8739.9	8381.1	8160.0	8760.7	9102.8	10308.5	10608.8	9703.6
37.5°	9394.8	9340.6	9645.2	9791.2	9469.9	9140.4	9603.4	9999.8	10871.7	11197.1	10216.7
40°	10304.3	10442.0	10850.8	11092.8	10750.7	10312.6	10633.9	10754.8	11247.1	11580.9	10567.1
42.5°	11455.7	11655.9	12073.1	12281.7	12252.5	11776.9	11681.0	11676.8	11518.3	11472.4	10825.8
45°	12561.2	12486.1	13128.6	13583.3	13950.4	13812.8	12690.5	12565.4	11948.0	11635.1	10892.5
47.5°	13045.1	13020.1	13458.2	14267.5	15519.0	15690.1	14159.0	13675.1	12673.9	12319.3	11255.5
50°	12419.4	12548.7	12982.6	13879.5	15798.5	17104.3	15961.2	15310.4	13520.7	13153.6	12114.8
52.5°	10375.2	10462.8	10875.8	12014.7	14847.4	17938.6	17688.3	17312.9	15076.8	14467.7	13612.5
54°	8531.3	8764.9	8990.2	10133.2	13153.6	17475.6	18635.3	18347.5	16090.5	15560.7	14555.3
55°	7429.9	7567.6	7730.3	8869.2	11981.3	16691.3	18526.9	18551.9	16770.5	15902.8	15189.4
57.5°	5427.5	5523.4	5356.6	5861.3	8226.7	13554.1	16945.8	17621.6	17688.3	16415.9	15577.4
60°	4146.7	4188.5	4000.7	4080.0	5114.6	9303.1	13107.7	13921.2	15957.1	14346.7	13195.3
62.5°	3216.4	3224.8	3220.6	3358.3	3525.2	5473.4	8197.5	8919.3	11001.0	10187.5	8961.0
65°	2369.6	2332.0	2398.8	2816.0	3007.9	3441.7	4317.8	4843.4	5978.2	5047.9	3608.6
67.5°	1535.2	1547.7	1614.5	2094.2	2578.2	2640.7	2657.4	2615.7	2619.9	1443.4	905.3
70°	922.0	942.8	922.0	1184.8	1843.9	1894.0	1731.3	1689.6	1318.3	342.1	337.9
72.5°	546.5	517.3	463.1	509.0	767.6	917.8	826.0	821.8	517.3	200.2	200.2
75°	229.4	208.6	171.0	154.4	204.4	196.1	196.1	175.2	137.7	133.5	125.2
77.5°	45.9	45.9	33.4	37.5	50.1	58.4	70.9	70.9	83.4	83.4	79.3
80°	0.0	4.2	12.5	25.0	37.5	54.2	62.6	62.6	70.9	70.9	58.4
82.5°	0.0	4.2	12.5	25.0	33.4	50.1	62.6	62.6	70.9	75.1	62.6
85°	0.0	4.2	12.5	20.9	33.4	41.7	41.7	37.5	29.2	25.0	16.7
87.5°	0.0	0.0	4.2	8.3	4.2	8.3	8.3	8.3	8.3	8.3	8.3
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°	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2	8043.2
2.5°	8080.7	8076.6	7976.4	7813.7	7776.2	7638.5	7621.8	7538.4	7584.3	7429.9	7413.2
5°	8014.0	7963.9	7842.9	7738.6	7434.1	7217.2	7046.1	6837.5	6716.6	6737.4	6658.2
7.5°	8109.9	7980.6	7767.9	7404.9	7033.6	6654.0	6449.6	6024.0	5869.7	5640.2	5606.9
10°	8009.8	7913.9	7584.3	6983.6	6470.4	5923.9	5444.2	4972.8	4614.0	4459.6	4426.3
12.5°	8001.5	7834.6	7283.9	6616.4	5873.9	5089.6	4392.9	3804.7	3450.1	3249.8	3203.9
15°	7872.1	7671.9	6946.0	6049.1	5022.8	4046.6	3287.4	2720.0	2448.8	2332.0	2365.4
17.5°	7884.7	7584.3	6608.1	5448.3	4184.3	2970.3	2244.4	1952.4	1881.5	1910.7	1910.7
20°	7872.1	7388.2	6199.3	4755.8	3203.9	2060.9	1647.9	1543.6	1589.4	1681.2	1660.4
22.5°	7805.4	7296.4	5823.8	4025.8	2357.1	1526.9	1322.5	1326.6	1397.5	1510.2	1535.2
25°	7855.5	7092.0	5348.2	3287.4	1718.8	1218.2	1147.2	1176.4	1251.5	1335.0	1351.7
27.5°	7817.9	6946.0	4851.8	2553.1	1255.7	1047.1	1042.9	1076.3	1109.7	1172.3	1172.3
30°	7859.6	6812.5	4363.7	1898.2	1034.6	959.5	942.8	967.9	1001.2	1013.7	1009.6
32.5°	8014.0	6712.4	3800.5	1418.4	913.6	876.1	876.1	876.1	871.9	888.6	892.8
35°	8351.9	6729.1	3304.0	1097.2	834.4	805.2	792.6	776.0	767.6	776.0	780.1
37.5°	8719.0	6720.7	2790.9	934.5	776.0	750.9	721.7	696.7	692.5	700.9	688.3
40°	8881.7	6800.0	2315.3	838.5	721.7	692.5	646.6	625.8	629.9	638.3	629.9
42.5°	9102.8	6825.0	2006.6	763.4	671.7	625.8	596.6	571.5	567.4	579.9	575.7
45°	9098.6	6683.2	1681.2	721.7	625.8	575.7	538.2	517.3	517.3	525.6	529.8
47.5°	9365.6	6662.3	1443.4	684.2	592.4	542.3	496.4	479.8	475.6	475.6	467.2
50°	9987.2	6954.4	1259.9	642.5	550.7	504.8	467.2	446.4	429.7	421.3	417.2
52.5°	11201.2	7863.8	1118.0	592.4	504.8	467.2	433.9	417.2	396.3	375.5	371.3
54°	12377.7	8802.5	1109.7	550.7	467.2	442.2	413.0	404.7	379.6	350.4	342.1
55°	12907.5	9349.0	1138.9	517.3	442.2	425.5	400.5	392.1	367.1	333.7	329.6
57.5°	13345.5	9561.7	1122.2	429.7	400.5	396.3	375.5	362.9	333.7	287.9	279.5
60°	10742.3	7229.7	805.2	379.6	367.1	358.8	342.1	333.7	296.2	246.1	242.0
62.5°	6787.5	4159.3	513.1	333.7	321.2	308.7	287.9	279.5	246.1	196.1	183.6
65°	2891.0	1722.9	346.3	296.2	275.3	254.5	237.8	225.3	196.1	146.0	141.8
67.5°	750.9	613.3	287.9	258.7	229.4	200.2	187.7	166.9	133.5	100.1	96.0
70°	337.9	308.7	242.0	216.9	183.6	154.4	137.7	116.8	87.6	66.7	62.6
72.5°	200.2	196.1	183.6	162.7	137.7	116.8	100.1	79.3	58.4	37.5	37.5
75°	125.2	121.0	125.2	112.6	96.0	87.6	75.1	54.2	33.4	16.7	16.7
77.5°	75.1	75.1	75.1	70.9	66.7	66.7	54.2	33.4	16.7	4.2	4.2
80°	58.4	58.4	62.6	58.4	58.4	58.4	45.9	25.0	8.3	0.0	0.0
82.5°	58.4	62.6	70.9	66.7	58.4	50.1	41.7	25.0	8.3	0.0	0.0
85°	16.7	12.5	20.9	29.2	41.7	37.5	29.2	20.9	8.3	0.0	0.0
87.5°	8.3	8.3	8.3	8.3	4.2	4.2	4.2	4.2	4.2	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)