

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: P530103

Luminaire Tested: **GALN-SA5B-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530103
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-SA5B-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 16633 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

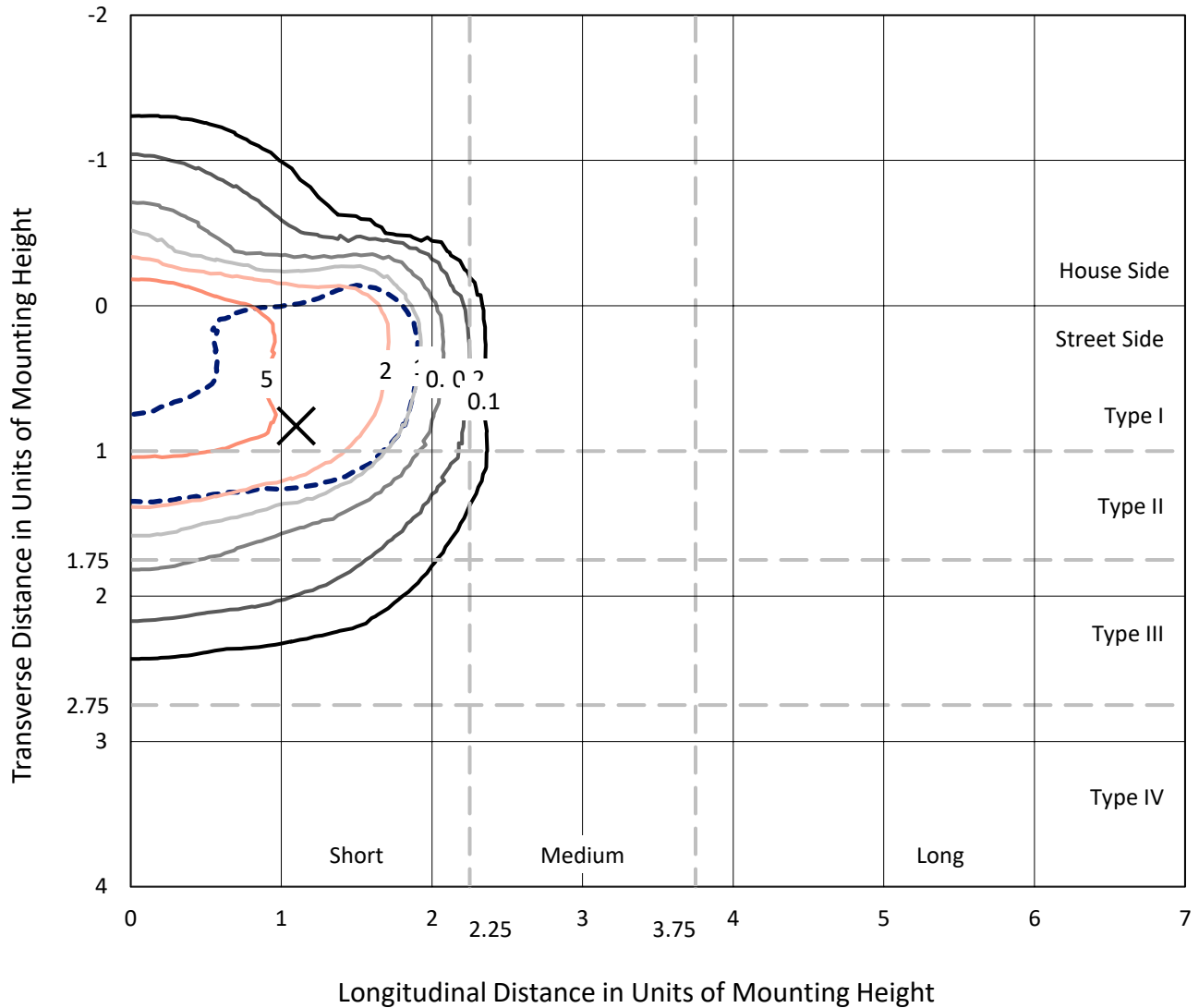
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

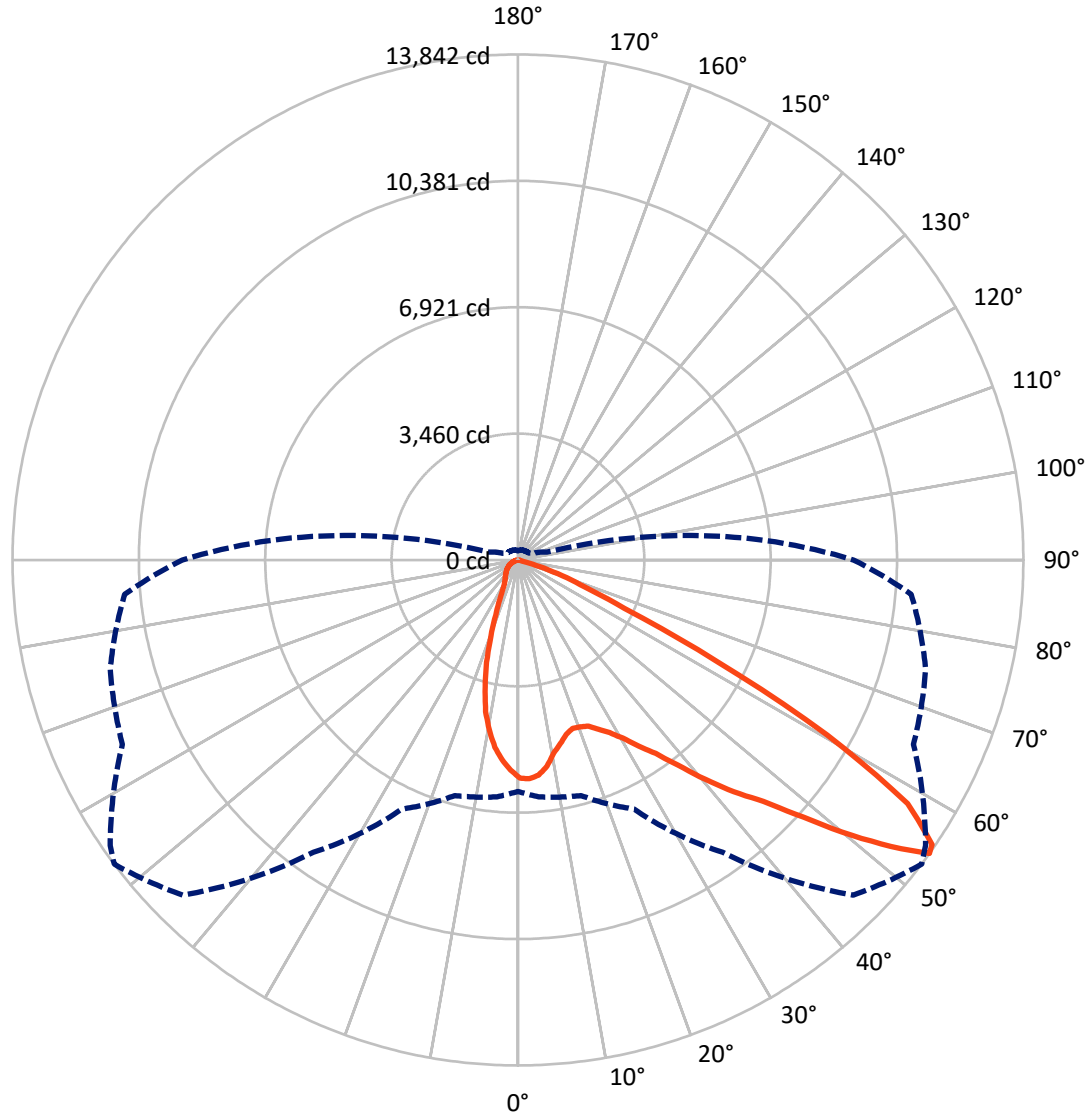
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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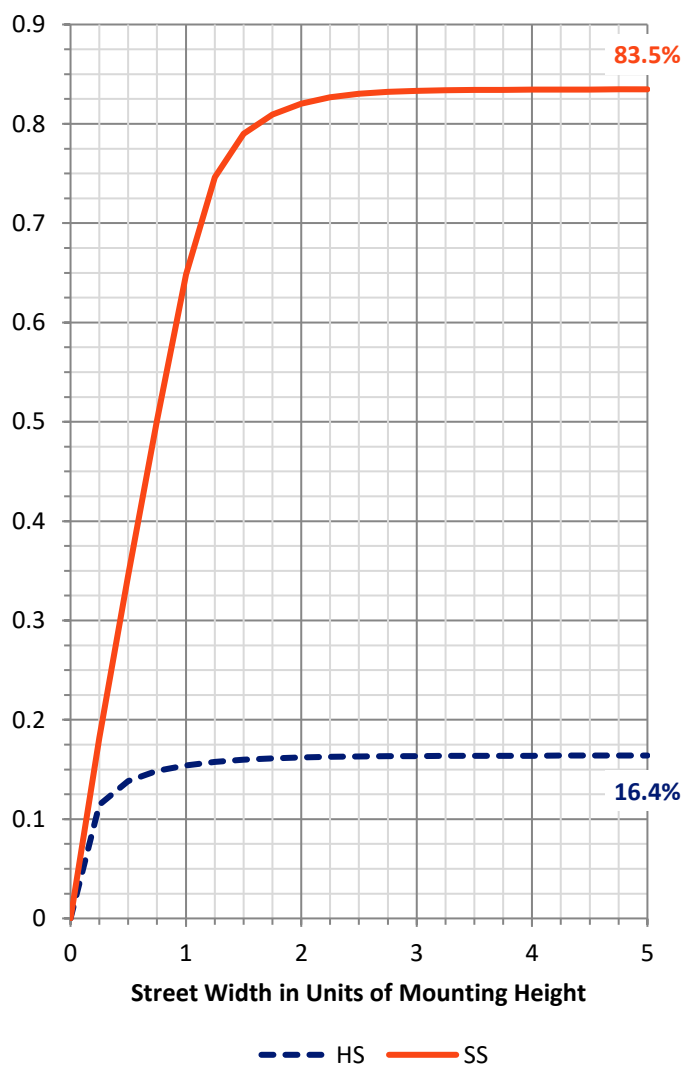
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2752.0	0.0	2752.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13881.0	0.0	13881.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	16633.0	0.0	16633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.6	3.1
10°-20°	1175.2	7.1
20°-30°	1670.2	10.0
30°-40°	2577.5	15.5
40°-50°	4041.3	24.3
50°-60°	4694.6	28.2
60°-70°	1773.9	10.7
70°-80°	168.7	1.0
80°-90°	19.0	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°	16633.0	100.0
0°-180°	16633.0	100.0

Coefficient of Utilization



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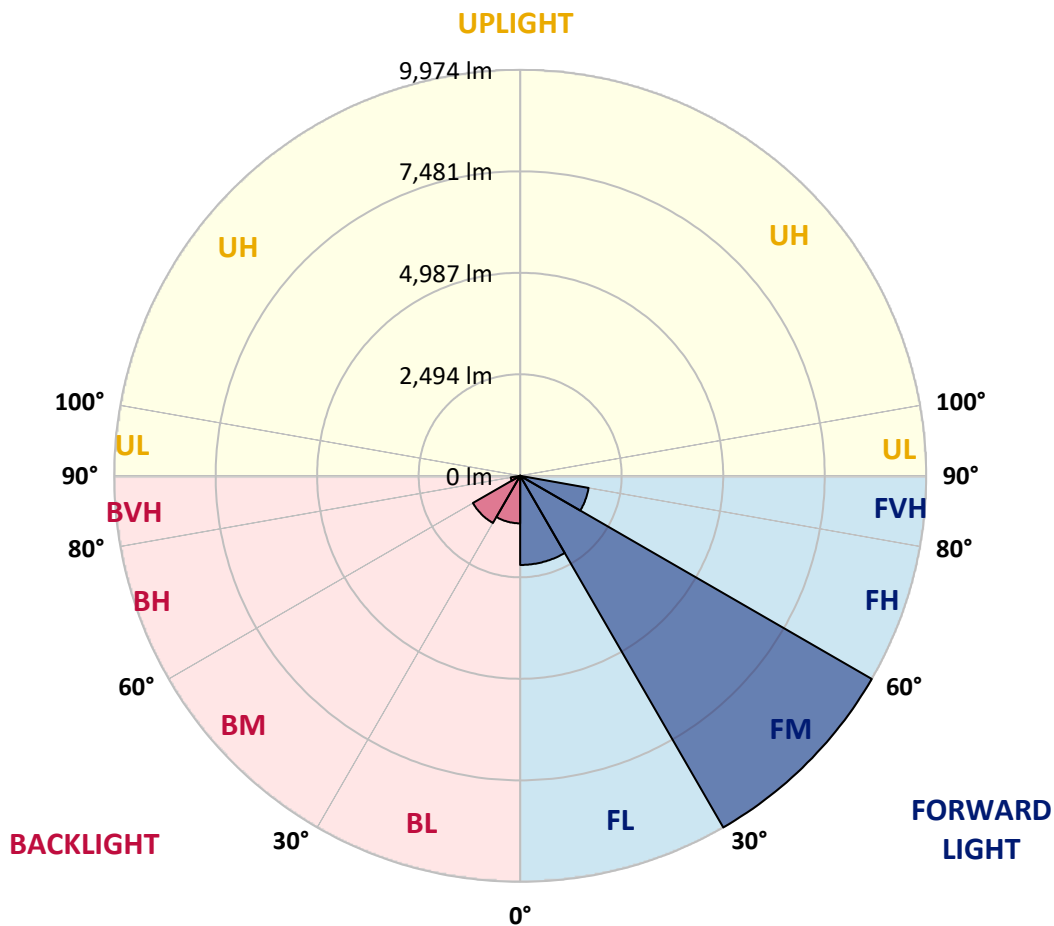
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2190.1	13.2			
FM (30°-60°)	9974.3	60.0			
FH (60°-80°)	1706.8	10.3			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	1167.8	7.0	B3/2500		
BM (30°-60°)	1339.2	8.1	B2/2500		
BH (60°-80°)	235.8	1.4	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3
2.5°	5943.3	5890.6	5943.3	5949.5	5986.7	6020.8	5999.1	6048.7	6020.8	5989.8	5980.5
5°	5463.0	5534.3	5537.4	5648.9	5624.1	5828.7	5918.5	5893.7	6045.6	6036.3	6014.6
7.5°	5032.3	5004.4	5041.6	5171.7	5336.0	5571.5	5701.6	5698.5	5915.4	6070.4	6054.9
10°	4632.6	4629.5	4706.9	4809.2	4948.6	5196.5	5376.2	5466.1	5803.9	6039.4	6073.5
12.5°	4363.0	4350.6	4434.2	4517.9	4737.9	4930.0	5159.3	5202.7	5590.1	5930.9	5986.7
15°	4186.3	4214.2	4220.4	4381.6	4521.0	4775.1	4954.8	5044.7	5490.9	5844.1	6058.0
17.5°	4155.4	4192.5	4195.6	4328.9	4477.6	4691.4	4849.5	4970.3	5407.2	5887.5	6061.1
20°	4217.3	4195.6	4214.2	4297.9	4443.5	4648.0	4877.4	4917.6	5379.3	5909.2	6095.1
22.5°	4394.0	4387.8	4341.3	4409.4	4511.7	4725.5	4942.4	5004.4	5459.9	6020.8	6123.0
25°	4589.2	4623.3	4579.9	4570.6	4641.9	4852.6	5140.7	5221.3	5729.5	6222.2	6209.8
27.5°	4954.8	4920.7	4920.7	4877.4	4858.8	4961.0	5354.6	5487.8	6030.1	6482.5	6309.0
30°	5305.0	5342.2	5314.3	5329.8	5205.8	5196.5	5658.2	5822.5	6563.0	6879.1	6519.7
32.5°	5859.6	5810.1	5856.5	5816.3	5652.0	5484.7	6070.4	6240.8	7207.6	7334.6	6835.7
35°	6321.3	6299.7	6498.0	6491.8	6225.3	6061.1	6507.3	6761.4	7656.9	7880.0	7207.6
37.5°	6978.3	6938.0	7164.2	7272.6	7034.0	6789.3	7133.2	7427.6	8075.2	8316.9	7588.7
40°	7653.8	7756.0	8059.7	8239.4	7985.3	7660.0	7898.6	7988.4	8354.1	8602.0	7849.0
42.5°	8509.0	8657.8	8967.6	9122.6	9100.9	8747.6	8676.4	8673.3	8555.5	8521.4	8041.1
45°	9330.2	9274.4	9751.6	10089.4	10362.1	10259.8	9426.2	9333.3	8874.7	8642.3	8090.7
47.5°	9689.6	9671.0	9996.4	10597.6	11527.2	11654.2	10517.0	10157.5	9413.8	9150.5	8360.3
50°	9224.8	9320.9	9643.2	10309.4	11734.8	12704.7	11855.6	11372.2	10042.9	9770.2	8998.6
52.5°	7706.5	7771.5	8078.3	8924.3	11028.3	13324.4	13138.5	12859.6	11198.7	10746.3	10111.1
54°	6336.8	6510.4	6677.7	7526.7	9770.2	12980.5	13841.9	13628.1	11951.7	11558.2	10811.4
55°	5518.8	5621.0	5741.9	6587.8	8899.5	12397.9	13761.3	13779.9	12456.8	11812.2	11282.4
57.5°	4031.4	4102.7	3978.7	4353.7	6110.6	10067.7	12586.9	13088.9	13138.5	12193.4	11570.5
60°	3080.1	3111.1	2971.7	3030.5	3799.0	6910.1	9736.1	10340.4	11852.5	10656.4	9801.2
62.5°	2389.1	2395.3	2392.2	2494.5	2618.4	4065.5	6088.9	6625.0	8171.3	7567.0	6656.0
65°	1760.1	1732.2	1781.8	2091.6	2234.2	2556.4	3207.2	3597.6	4440.4	3749.4	2680.4
67.5°	1140.3	1149.6	1199.2	1555.5	1915.0	1961.5	1973.9	1942.9	1946.0	1072.2	672.4
70°	684.8	700.3	684.8	880.0	1369.6	1406.8	1286.0	1255.0	979.2	254.1	251.0
72.5°	405.9	384.2	344.0	378.0	570.2	681.7	613.5	610.4	384.2	148.7	148.7
75°	170.4	154.9	127.0	114.7	151.8	145.6	145.6	130.1	102.3	99.2	93.0
77.5°	34.1	34.1	24.8	27.9	37.2	43.4	52.7	52.7	62.0	62.0	58.9
80°	0.0	3.1	9.3	18.6	27.9	40.3	46.5	46.5	52.7	52.7	43.4
82.5°	0.0	3.1	9.3	18.6	24.8	37.2	46.5	46.5	52.7	55.8	46.5
85°	0.0	3.1	9.3	15.5	24.8	31.0	31.0	27.9	21.7	18.6	12.4
87.5°	0.0	0.0	3.1	6.2	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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°	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3	5974.3
2.5°	6002.2	5999.1	5924.7	5803.9	5776.0	5673.7	5661.3	5599.4	5633.4	5518.8	5506.4
5°	5952.6	5915.4	5825.6	5748.1	5521.9	5360.8	5233.7	5078.8	4988.9	5004.4	4945.5
7.5°	6023.9	5927.8	5769.8	5500.2	5224.4	4942.4	4790.6	4474.5	4359.9	4189.4	4164.7
10°	5949.5	5878.2	5633.4	5187.2	4806.1	4400.2	4043.8	3693.7	3427.2	3312.5	3287.7
12.5°	5943.3	5819.4	5410.3	4914.5	4363.0	3780.4	3262.9	2826.0	2562.6	2413.9	2379.8
15°	5847.2	5698.5	5159.3	4493.1	3730.8	3005.7	2441.8	2020.4	1818.9	1732.2	1757.0
17.5°	5856.5	5633.4	4908.3	4046.9	3108.0	2206.3	1667.1	1450.2	1397.5	1419.2	1419.2
20°	5847.2	5487.8	4604.7	3532.5	2379.8	1530.8	1224.0	1146.5	1180.6	1248.8	1233.3
22.5°	5797.7	5419.6	4325.8	2990.2	1750.8	1134.1	982.3	985.4	1038.1	1121.7	1140.3
25°	5834.9	5267.8	3972.5	2441.8	1276.7	904.8	852.1	873.8	929.6	991.6	1004.0
27.5°	5807.0	5159.3	3603.8	1896.4	932.7	777.8	774.7	799.5	824.3	870.7	870.7
30°	5838.0	5060.2	3241.2	1409.9	768.5	712.7	700.3	718.9	743.7	753.0	749.9
32.5°	5952.6	4985.8	2822.9	1053.6	678.6	650.7	650.7	650.7	647.6	660.0	663.1
35°	6203.6	4998.2	2454.2	815.0	619.7	598.0	588.8	576.4	570.2	576.4	579.5
37.5°	6476.3	4992.0	2073.0	694.1	576.4	557.8	536.1	517.5	514.4	520.6	511.3
40°	6597.1	5050.9	1719.8	622.8	536.1	514.4	480.3	464.8	467.9	474.1	467.9
42.5°	6761.4	5069.5	1490.5	567.1	498.9	464.8	443.1	424.5	421.4	430.7	427.6
45°	6758.3	4964.1	1248.8	536.1	464.8	427.6	399.7	384.2	384.2	390.4	393.5
47.5°	6956.6	4948.6	1072.2	508.2	440.0	402.8	368.7	356.4	353.3	353.3	347.1
50°	7418.3	5165.5	935.8	477.2	409.0	374.9	347.1	331.6	319.2	313.0	309.9
52.5°	8320.0	5841.0	830.5	440.0	374.9	347.1	322.3	309.9	294.4	278.9	275.8
54°	9193.8	6538.3	824.3	409.0	347.1	328.5	306.8	300.6	282.0	260.3	254.1
55°	9587.4	6944.2	845.9	384.2	328.5	316.1	297.5	291.3	272.7	247.9	244.8
57.5°	9912.7	7102.2	833.6	319.2	297.5	294.4	278.9	269.6	247.9	213.8	207.6
60°	7979.2	5370.0	598.0	282.0	272.7	266.5	254.1	247.9	220.0	182.8	179.7
62.5°	5041.6	3089.4	381.1	247.9	238.6	229.3	213.8	207.6	182.8	145.6	136.3
65°	2147.4	1279.8	257.2	220.0	204.5	189.0	176.6	167.3	145.6	108.5	105.4
67.5°	557.8	455.5	213.8	192.1	170.4	148.7	139.4	123.9	99.2	74.4	71.3
70°	251.0	229.3	179.7	161.1	136.3	114.7	102.3	86.8	65.1	49.6	46.5
72.5°	148.7	145.6	136.3	120.8	102.3	86.8	74.4	58.9	43.4	27.9	27.9
75°	93.0	89.9	93.0	83.7	71.3	65.1	55.8	40.3	24.8	12.4	12.4
77.5°	55.8	55.8	55.8	52.7	49.6	49.6	40.3	24.8	12.4	3.1	3.1
80°	43.4	43.4	46.5	43.4	43.4	43.4	34.1	18.6	6.2	0.0	0.0
82.5°	43.4	46.5	52.7	49.6	43.4	37.2	31.0	18.6	6.2	0.0	0.0
85°	12.4	9.3	15.5	21.7	31.0	27.9	21.7	15.5	6.2	0.0	0.0
87.5°	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	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)