

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: P531493

Luminaire Tested: **GALN-SA6D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25519 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

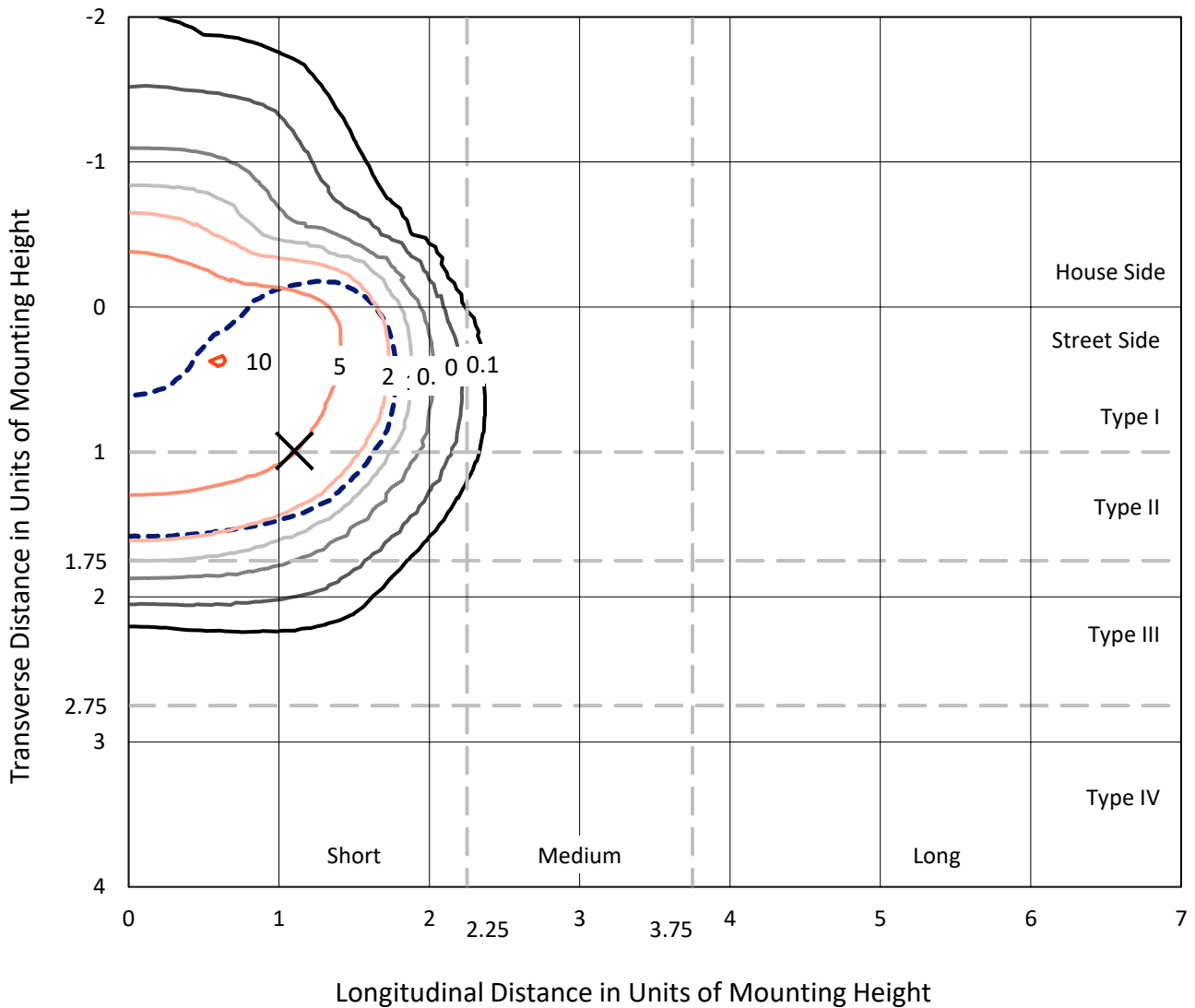
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

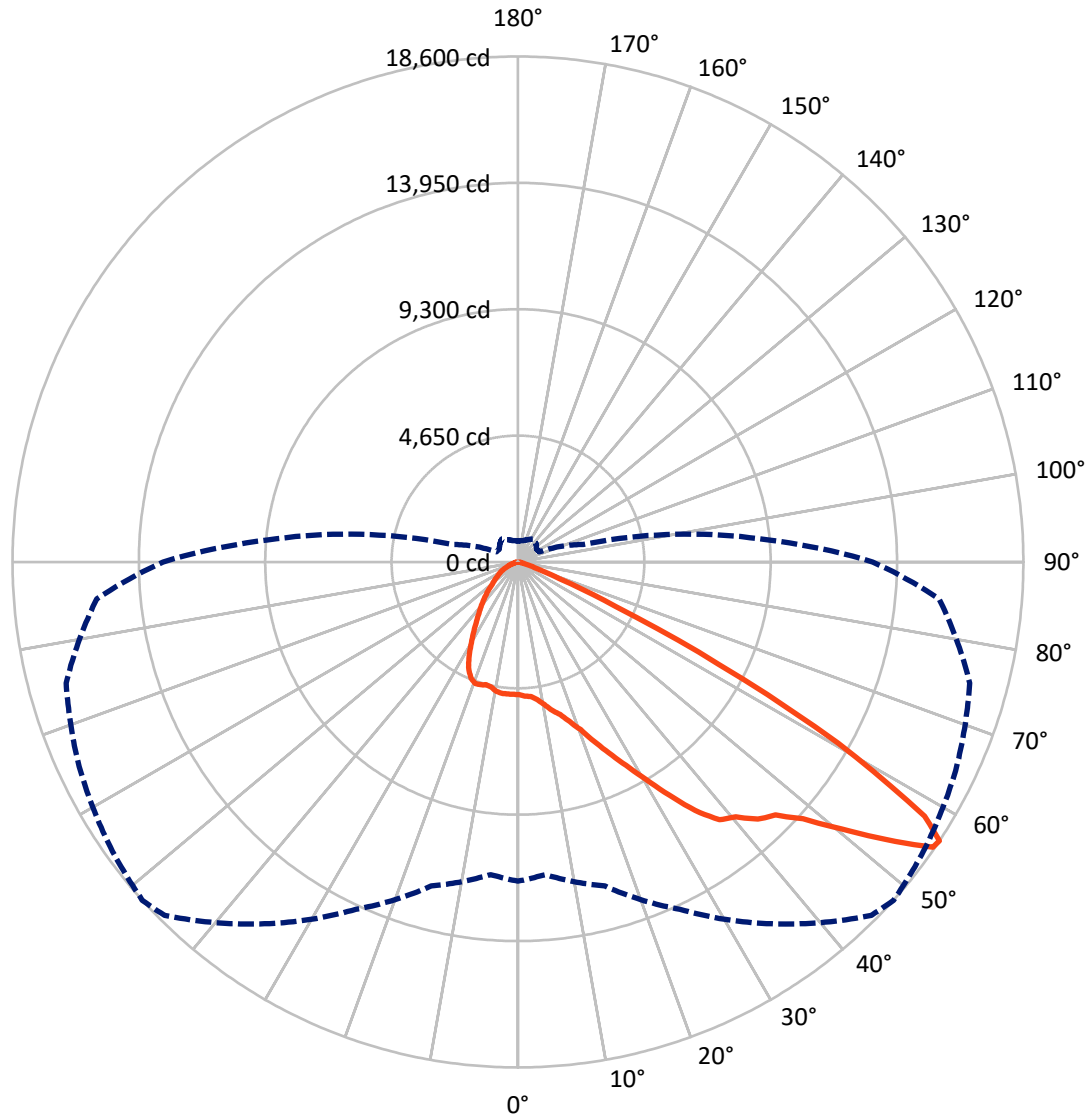
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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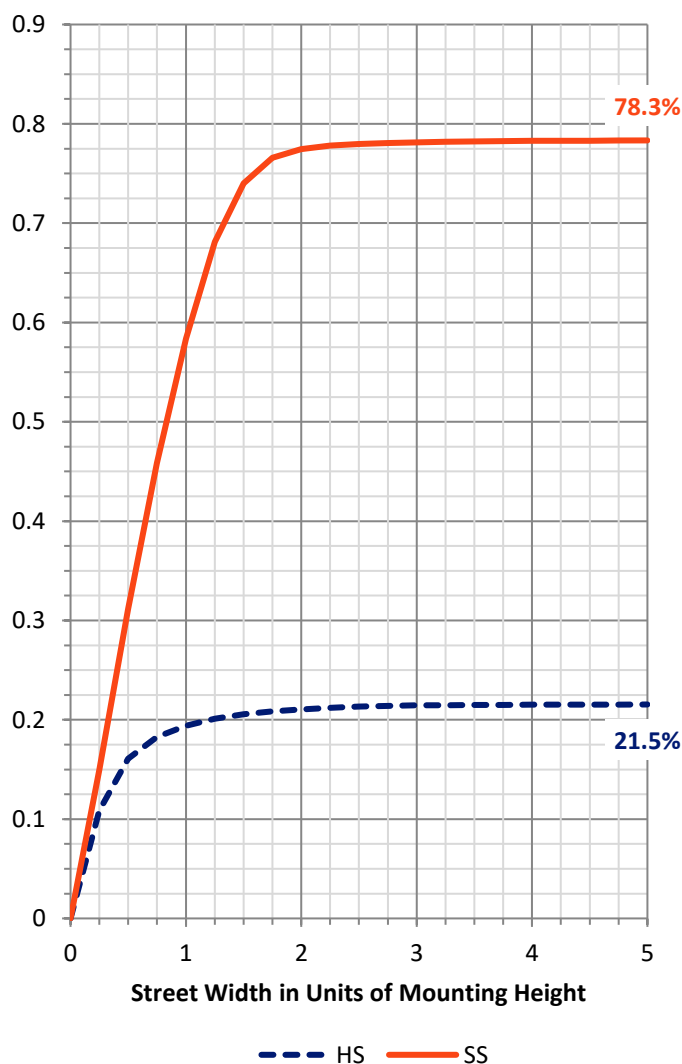
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5549.9	0.0	5549.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	19969.1	0.0	19969.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	25519.0	0.0	25519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.8	1.9
10°-20°	1517.4	5.9
20°-30°	2752.2	10.8
30°-40°	4323.1	16.9
40°-50°	6306.7	24.7
50°-60°	7598.3	29.8
60°-70°	2224.7	8.7
70°-80°	282.2	1.1
80°-90°	39.6	0.2
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°	25519.0	100.0
0°-180°	25519.0	100.0

Coefficient of Utilization

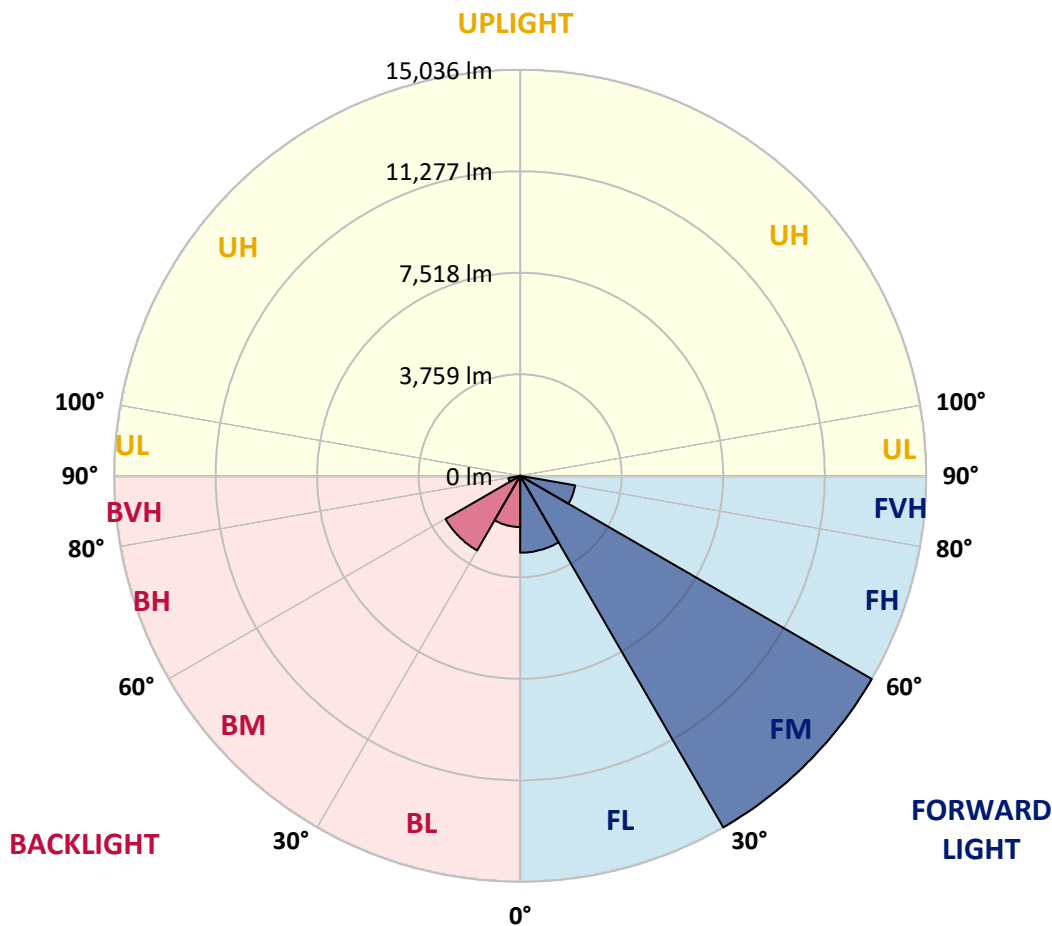


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2847.4	11.2			
FM (30°-60°)	15035.9	58.9			
FH (60°-80°)	2066.0	8.1			G2/5000
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	1896.9	7.4	B3/2500		
BM (30°-60°)	3192.3	12.5	B3/5000		
BH (60°-80°)	441.0	1.7	B1/500		G1/500
BVH (80°-90°)	19.7	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°	48°	55°	65°	75°	85°
0°	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1
2.5°	4962.4	4939.2	4939.2	4902.0	4943.8	4925.3	4939.2	4892.7	4939.2	4869.5	4925.3
5°	4985.7	4990.3	4971.7	4994.9	4994.9	5022.8	4976.4	5018.2	5041.4	4990.3	4967.1
7.5°	5106.5	5115.8	5111.1	5092.5	5129.7	5125.0	5120.4	5087.9	5097.2	5078.6	5050.7
10°	5343.4	5338.8	5362.0	5315.6	5287.7	5320.2	5329.5	5278.4	5241.2	5227.3	5139.0
12.5°	5687.3	5631.5	5599.0	5552.5	5566.5	5520.0	5603.6	5515.4	5496.8	5413.1	5324.8
15°	5966.1	5956.8	5961.4	5887.1	5803.4	5822.0	5822.0	5775.6	5747.7	5645.5	5520.0
17.5°	6537.6	6342.4	6384.2	6291.3	6221.6	6217.0	6175.1	6184.4	6110.1	5896.4	5705.9
20°	6983.6	6900.0	6834.9	6677.0	6570.1	6602.6	6584.0	6537.6	6514.3	6235.6	5966.1
22.5°	7383.2	7411.1	7304.2	7262.4	7113.7	7127.7	7164.8	7123.0	6946.5	6658.4	6258.8
25°	7945.5	7912.9	7768.9	7717.8	7578.4	7629.5	7773.5	7741.0	7629.5	7109.1	6486.5
27.5°	8609.9	8498.4	8526.3	8293.9	8159.2	8303.2	8475.1	8637.8	8321.8	7638.8	6756.0
30°	9079.2	8963.0	8953.7	8944.4	8911.9	9079.2	9279.0	9427.7	9172.1	8168.5	7202.0
32.5°	9311.5	9339.4	9418.4	9390.5	9673.9	10017.8	10226.9	10440.6	10120.0	9032.7	7792.1
35°	9929.5	9752.9	9929.5	9948.1	10240.8	10970.3	11235.1	11746.3	11667.3	10254.7	8512.3
37.5°	10291.9	10278.0	10301.2	10477.8	10761.2	11662.6	12039.0	12433.9	12285.2	10988.9	9409.1
40°	10891.3	10928.5	10923.8	11058.6	11369.9	12183.0	12336.4	12657.0	12670.9	12006.5	10728.7
42.5°	11853.1	11704.4	11606.9	11746.3	12183.0	12633.7	12940.4	12875.3	13335.3	13242.4	12424.6
45°	12717.4	12805.7	12661.6	12893.9	13051.9	13293.5	13284.2	13423.6	14009.1	14450.5	13702.4
47.5°	13525.9	13581.6	13651.3	13809.3	14153.1	14190.3	14111.3	14050.9	14859.4	15314.7	14692.1
50°	14009.1	14060.2	14385.5	14668.9	15310.1	15393.7	15440.2	15286.9	15835.1	15886.3	15626.1
52.5°	13879.0	13934.7	14390.1	15324.0	16346.3	17112.9	16973.5	16713.3	16680.8	16880.6	16490.3
55°	12726.7	12675.6	13302.8	14757.2	16671.5	18511.5	18530.1	18256.0	17730.9	17596.2	16360.2
56°	11746.3	11546.5	12345.7	14102.0	16253.3	18390.7	18599.8	18307.1	17814.5	17210.5	15556.4
57.5°	9622.8	9813.3	10607.9	12062.2	14808.3	17521.8	17642.6	17572.9	17201.2	16188.3	13688.5
60°	5306.3	5640.8	6342.4	8122.0	10542.8	13446.9	13544.4	14111.3	14181.0	12396.8	9418.4
62.5°	2253.5	2216.4	2945.9	4256.2	6003.2	8117.4	8298.6	8879.4	8986.3	7146.3	4725.5
65°	915.4	966.5	1333.5	2142.0	3173.5	3698.6	3954.1	4144.6	4497.8	2950.5	1742.4
67.5°	604.0	599.4	785.3	1222.0	1709.9	1649.5	1649.5	1742.4	1612.3	1203.4	752.7
70°	432.1	446.1	562.2	845.7	1064.0	789.9	757.4	724.8	822.4	794.5	608.7
72.5°	283.4	302.0	376.4	506.5	552.9	432.1	432.1	520.4	678.4	641.2	497.2
75°	185.9	190.5	232.3	292.7	274.1	223.0	246.3	348.5	492.5	473.9	353.1
77.5°	125.5	130.1	158.0	190.5	153.3	125.5	134.7	176.6	241.6	241.6	185.9
80°	46.5	51.1	65.1	60.4	69.7	88.3	97.6	120.8	144.0	144.0	125.5
82.5°	0.0	4.6	13.9	32.5	51.1	69.7	79.0	92.9	106.9	120.8	116.2
85°	0.0	4.6	13.9	23.2	37.2	41.8	46.5	32.5	27.9	27.9	23.2
87.5°	0.0	0.0	4.6	4.6	4.6	4.6	4.6	4.6	9.3	4.6	4.6
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°	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1	4874.1
2.5°	4874.1	4869.5	4869.5	4855.6	4883.4	4869.5	4878.8	4874.1	4813.7	4860.2	4827.7
5°	4925.3	4957.8	4906.7	4897.4	4860.2	4874.1	4874.1	4827.7	4869.5	4864.8	4855.6
7.5°	5055.4	4999.6	4943.8	4888.1	4878.8	4864.8	4813.7	4795.2	4827.7	4790.5	4846.3
10°	5111.1	5120.4	5036.8	4962.4	4892.7	4795.2	4725.5	4683.6	4632.5	4688.3	4720.8
12.5°	5366.7	5273.7	5129.7	5013.5	4776.6	4679.0	4609.3	4590.7	4679.0	4697.6	4665.0
15°	5454.9	5441.0	5255.2	4994.9	4748.7	4632.5	4646.5	4609.3	4618.6	4572.1	4581.4
17.5°	5636.2	5478.2	5259.8	4934.5	4744.0	4716.2	4632.5	4483.8	4400.2	4363.0	4395.6
20°	5836.0	5682.6	5366.7	4957.8	4785.9	4711.5	4437.4	4256.2	4084.2	3991.3	3996.0
22.5°	6012.5	5822.0	5320.2	4967.1	4823.0	4516.4	4186.5	3828.7	3614.9	3470.9	3475.6
25°	6226.3	5956.8	5338.8	4985.7	4725.5	4205.0	3731.1	3382.6	3127.1	3029.5	3062.0
27.5°	6347.1	6040.4	5441.0	5027.5	4469.9	3763.6	3252.5	2927.3	2778.6	2732.1	2727.5
30°	6709.5	6226.3	5566.5	4943.8	4042.4	3289.7	2815.8	2616.0	2471.9	2430.1	2439.4
32.5°	7248.5	6565.5	5729.1	4725.5	3605.7	2866.9	2532.3	2383.6	2248.9	2169.9	2160.6
35°	7699.2	7146.3	5901.0	4386.3	3099.2	2541.6	2332.5	2146.7	1942.2	1853.9	1830.7
37.5°	8558.8	7801.4	5863.8	3875.2	2616.0	2300.0	2118.8	1891.1	1714.5	1593.7	1579.8
40°	9701.8	8568.1	5682.6	3252.5	2258.2	2086.3	1891.1	1672.7	1454.3	1352.1	1342.8
42.5°	11091.1	9506.7	5352.7	2620.6	1900.4	1872.5	1696.0	1445.1	1249.9	1175.6	1180.2
45°	12220.2	10310.5	5018.2	2104.8	1635.6	1663.4	1510.1	1273.1	1138.4	1078.0	1078.0
47.5°	13223.8	10854.1	4655.8	1737.8	1389.3	1454.3	1319.6	1180.2	1064.0	1017.6	1008.3
50°	14190.3	11407.1	4293.3	1407.9	1184.8	1249.9	1236.0	1124.4	1031.5	975.8	980.4
52.5°	14794.3	11495.4	3833.3	1152.3	1036.2	1110.5	1157.0	1054.7	952.5	920.0	910.7
55°	14055.6	10357.0	2973.7	947.9	878.2	975.8	1064.0	947.9	868.9	813.1	808.5
56°	13061.2	9260.4	2485.9	873.5	831.7	938.6	1031.5	906.1	817.8	785.3	762.0
57.5°	11058.6	7578.4	1835.4	776.0	771.3	873.5	980.4	864.2	762.0	734.1	734.1
60°	6895.4	4265.5	1110.5	650.5	669.1	776.0	882.8	771.3	678.4	678.4	692.3
62.5°	3141.0	1774.9	673.7	552.9	576.2	669.1	785.3	697.0	645.9	697.0	706.3
65°	1068.7	766.7	487.9	441.4	455.4	552.9	673.7	706.3	701.6	734.1	752.7
67.5°	599.4	492.5	408.9	367.1	357.8	408.9	552.9	706.3	678.4	664.4	673.7
70°	506.5	418.2	362.4	325.3	311.3	329.9	427.5	534.3	478.6	464.6	455.4
72.5°	408.9	348.5	316.0	292.7	250.9	213.7	195.2	204.4	227.7	241.6	264.8
75°	288.1	264.8	264.8	237.0	181.2	134.7	106.9	88.3	60.4	41.8	46.5
77.5°	162.6	162.6	167.3	144.0	116.2	88.3	65.1	46.5	23.2	9.3	4.6
80°	111.5	120.8	130.1	116.2	97.6	79.0	55.8	32.5	13.9	0.0	0.0
82.5°	111.5	125.5	134.7	116.2	97.6	74.3	55.8	32.5	13.9	4.6	0.0
85°	23.2	27.9	32.5	37.2	55.8	55.8	41.8	27.9	13.9	4.6	0.0
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	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)