

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: P531496

Luminaire Tested: **GALN-SA6D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531496
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-SA6D-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA 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: 37304 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

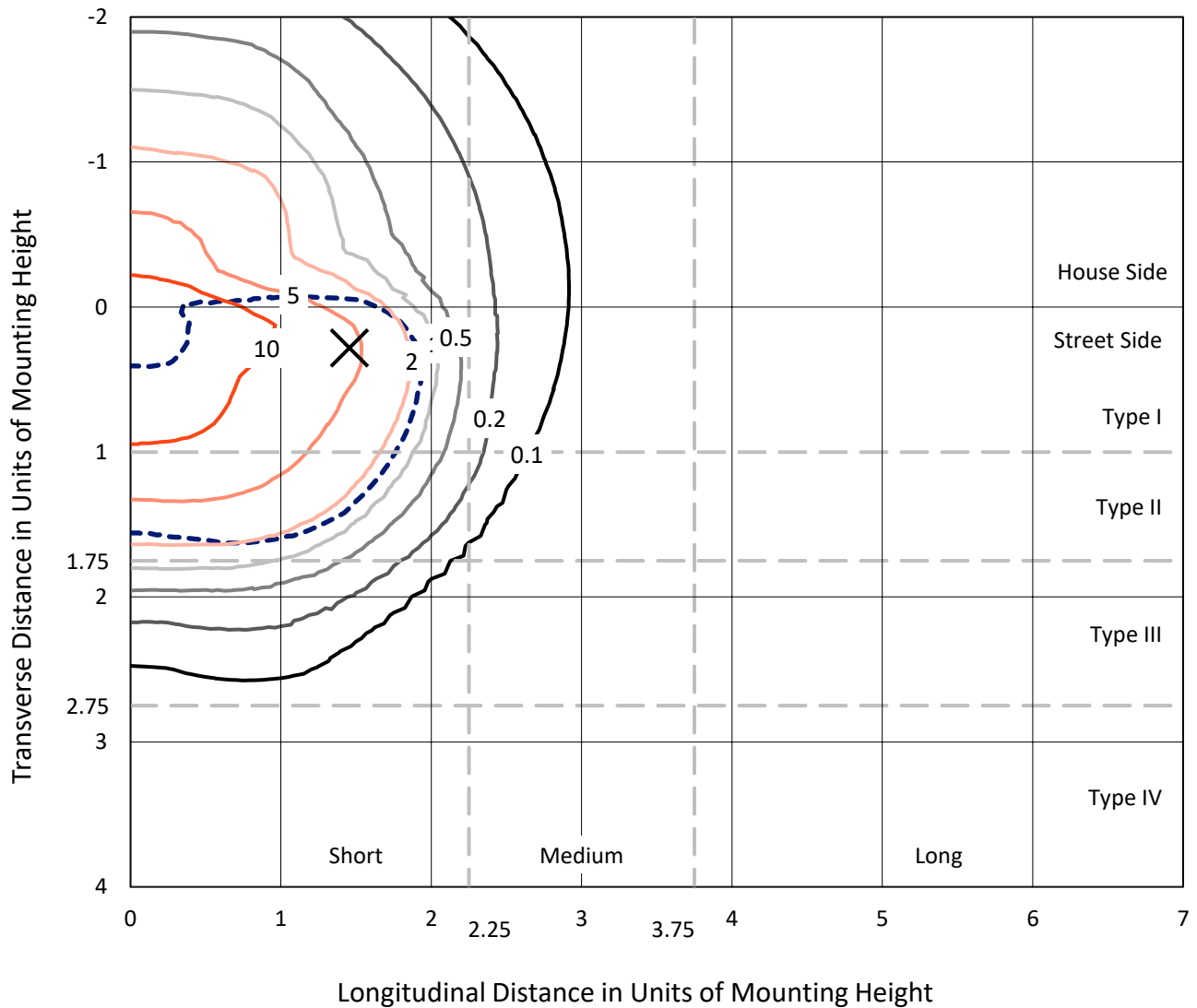
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

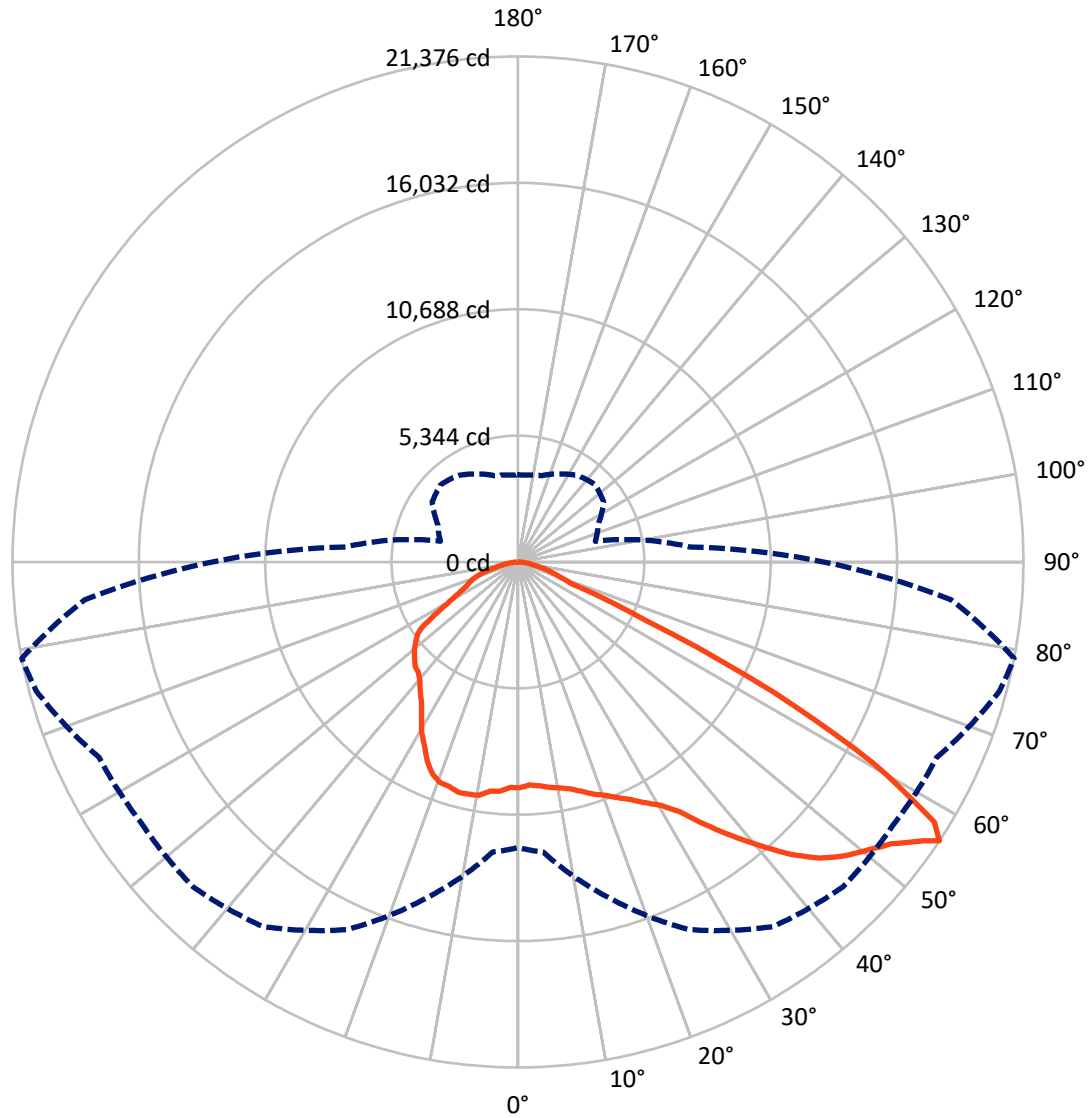
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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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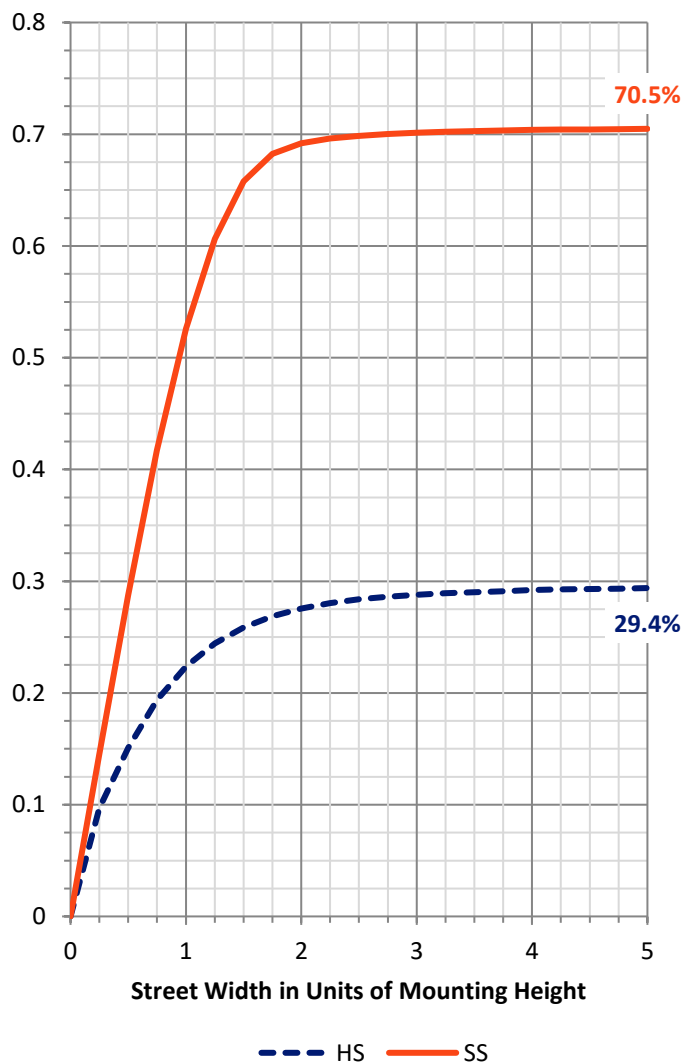
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11016.7	0.0	11016.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	26287.3	0.0	26287.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	37304.0	0.0	37304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.8	2.3
10°-20°	2374.9	6.4
20°-30°	4063.0	10.9
30°-40°	6227.0	16.7
40°-50°	8415.8	22.6
50°-60°	9665.8	25.9
60°-70°	4406.0	11.8
70°-80°	1086.3	2.9
80°-90°	197.4	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°	37304.0	100.0
0°-180°	37304.0	100.0

Coefficient of Utilization

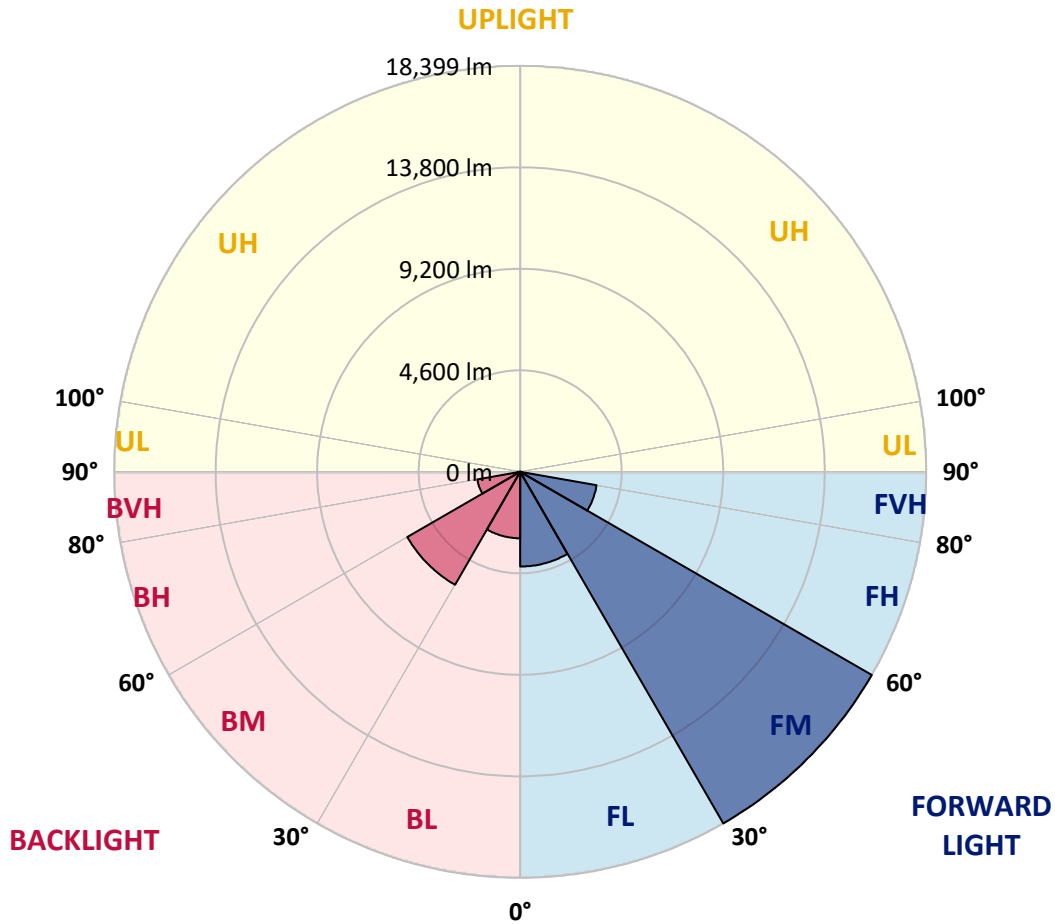


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4292.1	11.5			
FM (30°-60°)	18399.4	49.3			
FH (60°-80°)	3516.9	9.4			G2/5000
FVH (80°-90°)	78.8	0.2			G1/100
BL (0°-30°)	3013.5	8.1	B4/5000		
BM (30°-60°)	5909.2	15.8	B4/8500		
BH (60°-80°)	1975.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	118.6	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°	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6
2.5°	9079.9	9056.7	9112.5	9154.3	9205.4	9270.5	9303.0	9321.6	9484.2	9442.4	9567.9
5°	8884.8	8824.4	8866.2	8898.7	8987.0	9066.0	9154.3	9293.7	9442.4	9507.4	9660.8
7.5°	8712.8	8680.3	8671.0	8694.2	8815.1	8917.3	9070.6	9275.1	9516.7	9623.6	9711.9
10°	8429.4	8382.9	8452.6	8606.0	8638.5	8852.2	9028.8	9321.6	9530.7	9716.5	9976.8
12.5°	8303.9	8257.4	8271.4	8359.7	8587.4	8791.8	9000.9	9330.9	9772.3	9846.7	10195.2
15°	8503.7	8457.3	8471.2	8448.0	8666.4	8773.2	9103.2	9516.7	9939.6	10065.1	10436.8
17.5°	8959.1	8963.8	8903.4	8852.2	8801.1	9028.8	9256.5	9628.3	10004.7	10320.6	10599.4
20°	9828.1	9674.7	9553.9	9265.8	9186.8	9284.4	9572.5	9930.3	10269.5	10529.7	10845.7
22.5°	10497.2	10511.2	10339.2	9865.2	9693.3	9735.1	9981.4	10274.2	10645.9	10831.8	11194.2
25°	11468.4	11370.8	11185.0	10808.6	10422.9	10455.4	10636.6	10901.5	11003.7	11133.8	11528.8
27.5°	12356.0	12383.8	12016.7	11663.6	11185.0	11092.0	11417.3	11463.8	11291.8	11538.1	11672.9
30°	13257.4	13234.2	12992.6	12579.0	12109.7	12128.3	12272.3	12044.6	11807.6	11942.4	12035.3
32.5°	14191.5	13926.6	13917.3	13545.5	13187.7	13015.8	12839.2	12950.8	12583.7	12611.5	12523.2
35°	14939.6	14976.8	14763.0	14498.2	14321.6	14019.5	13536.3	13736.1	13666.4	13633.8	13252.8
37.5°	15483.3	15339.2	15446.1	15357.8	15190.5	14814.1	14312.3	14502.8	14535.3	14693.3	14251.9
40°	15929.4	15869.0	16152.4	16198.9	16082.7	15269.5	14368.0	14935.0	15422.9	15766.7	15241.6
42.5°	16143.1	16273.2	16570.6	16928.5	16668.2	15799.3	14656.1	15264.9	16352.2	16895.9	16180.3
45°	16431.2	16264.0	16705.4	17360.6	17365.3	16245.4	14935.0	15711.0	17077.1	17867.1	16821.6
47.5°	16138.5	16222.1	16677.5	17509.3	17723.1	16714.7	15687.7	16342.9	17876.4	18578.1	17416.4
50°	15483.3	15650.6	16482.4	17346.7	17992.6	17211.9	16552.1	17026.0	18615.3	19149.6	17514.0
52.5°	14800.2	14893.1	16194.2	17472.1	18113.4	17853.2	17709.1	17969.3	19516.7	19795.6	17634.8
55°	12941.5	13382.9	15241.6	17416.4	18703.5	19010.2	18898.7	19279.8	20539.0	20817.9	18294.6
56°	12081.8	12314.1	14670.1	17156.1	18819.7	19433.1	19377.3	19549.3	21082.7	21375.5	18396.9
57.5°	10492.6	10511.2	12509.3	16003.7	18382.9	19558.6	19502.8	19637.6	20975.9	20776.0	17500.0
60°	6566.0	6854.1	8513.0	12309.5	15632.0	18145.9	18461.9	17379.2	17685.9	17263.0	13615.3
62.5°	3401.5	3359.7	4461.0	7198.0	10376.4	12992.6	13285.3	13234.2	12760.2	12142.2	8894.1
65°	1696.1	1705.4	2332.7	3564.1	5316.0	6803.0	7620.8	7709.1	6449.8	5934.0	4219.3
67.5°	1231.4	1277.9	1677.5	2179.4	2504.6	2802.0	3434.0	3369.0	2551.1	2425.7	2249.1
70°	957.2	999.1	1361.5	1663.6	1510.2	1510.2	1645.0	1700.7	1816.9	1868.0	1928.4
72.5°	697.0	729.6	1040.9	1147.8	989.8	1064.1	1231.4	1361.5	1482.3	1500.9	1570.6
75°	478.6	506.5	683.1	632.0	594.8	734.2	901.5	1022.3	1110.6	1157.1	1198.9
77.5°	311.3	320.6	390.3	329.9	381.0	474.0	585.5	687.7	776.0	813.2	822.5
80°	139.4	153.3	167.3	209.1	264.9	339.2	418.2	501.9	557.6	571.6	599.4
82.5°	79.0	79.0	102.2	148.7	195.2	246.3	302.0	362.5	427.5	441.5	436.8
85°	41.8	41.8	60.4	88.3	120.8	144.1	139.4	144.1	153.3	176.6	171.9
87.5°	13.9	13.9	18.6	18.6	23.2	27.9	23.2	32.5	41.8	41.8	41.8
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°	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6	9544.6
2.5°	9530.7	9572.5	9516.7	9637.6	9637.6	9614.3	9498.1	9535.3	9563.2	9563.2	9586.4
5°	9711.9	9698.0	9735.1	9591.1	9502.8	9470.3	9279.7	9186.8	9107.8	9103.2	9033.5
7.5°	9814.1	9777.0	9763.0	9656.1	9265.8	9028.8	8619.9	8382.9	8331.8	8150.6	8220.3
10°	9976.8	10046.5	9976.8	9395.9	8852.2	8308.6	7908.9	7541.8	7397.8	7281.6	7211.9
12.5°	10311.3	10278.8	9874.5	9089.2	8327.1	7681.2	7086.4	6700.7	6556.7	6454.5	6445.2
15°	10594.8	10432.2	9814.1	8606.0	7509.3	6821.6	6333.6	6059.5	5994.4	6003.7	6045.5
17.5°	10692.4	10580.9	9498.1	8104.1	6900.6	6092.0	5864.3	5822.5	5882.9	5952.6	5971.2
20°	10845.7	10669.2	9368.0	7421.0	6147.8	5636.6	5622.7	5771.4	5882.9	5985.1	5999.1
22.5°	11166.4	10720.3	8945.2	6775.1	5632.0	5501.9	5636.6	5762.1	5934.0	6017.7	5943.3
25°	11259.3	10608.7	8350.4	5999.1	5306.7	5418.2	5562.3	5734.2	5855.0	5901.5	5934.0
27.5°	11338.3	10436.8	7546.5	5483.3	5204.5	5413.6	5562.3	5706.3	5771.4	5813.2	5850.4
30°	11561.3	10385.7	6849.4	5139.4	5139.4	5320.6	5511.2	5548.3	5636.6	5687.7	5752.8
32.5°	11672.9	10032.5	6133.8	4921.0	5074.4	5367.1	5381.0	5450.7	5455.4	5497.2	5427.5
35°	11965.6	9781.6	5469.3	4763.0	5102.2	5320.6	5390.3	5348.5	5120.8	5009.3	5032.5
37.5°	12179.4	9656.1	4990.7	4744.4	5106.9	5371.8	5408.9	5092.9	4856.0	4670.1	4716.5
40°	12755.6	9344.8	4628.3	4711.9	5148.7	5427.5	5325.3	4981.4	4553.9	4363.4	4330.9
42.5°	13197.0	9121.8	4400.6	4674.7	5181.2	5506.5	5283.5	4758.4	4321.6	4145.0	4191.5
45°	13708.2	9070.6	4279.7	4684.0	5237.0	5548.3	5232.3	4586.4	4121.8	4052.0	4038.1
47.5°	13889.4	8703.5	4149.6	4605.0	5223.1	5534.4	5060.4	4456.3	4047.4	4056.7	4093.9
50°	13587.4	8327.1	4052.0	4442.4	5130.1	5408.9	4790.9	4284.4	4005.6	4121.8	4186.8
52.5°	13201.7	7941.5	3852.2	4224.0	4939.6	5213.8	4665.4	4275.1	3963.8	3926.6	3940.5
55°	13317.9	7625.5	3573.4	3926.6	4632.9	4851.3	4526.0	4186.8	3861.5	3722.1	3768.6
56°	12941.5	7300.2	3392.2	3740.7	4423.8	4619.0	4456.3	4107.8	3777.9	3684.9	3684.9
57.5°	11877.3	6208.2	3155.2	3443.3	3982.3	4214.7	4321.6	4061.3	3684.9	3522.3	3527.0
60°	8759.3	4414.5	2829.9	3034.4	3299.3	3485.1	3982.3	3931.2	3452.6	3341.1	3299.3
62.5°	5399.6	3224.9	2597.6	2676.6	2811.3	2964.7	3475.8	3559.5	3206.3	3085.5	3057.6
65°	3025.1	2467.5	2421.0	2453.5	2518.6	2597.6	2885.7	3071.6	2829.9	2644.1	2634.8
67.5°	2211.9	2207.3	2244.4	2272.3	2300.2	2300.2	2369.9	2444.2	2411.7	2263.0	2249.1
70°	1965.6	1979.6	2007.4	2012.1	2021.4	1988.8	1933.1	1909.9	1947.0	1854.1	1835.5
72.5°	1621.7	1668.2	1700.7	1705.4	1654.3	1612.5	1538.1	1459.1	1431.2	1412.6	1408.0
75°	1245.4	1277.9	1291.8	1287.2	1268.6	1208.2	1119.9	1040.9	989.8	934.0	961.9
77.5°	841.1	887.5	910.8	910.8	882.9	790.0	748.1	687.7	636.6	576.2	585.5
80°	590.1	622.7	659.9	655.2	608.7	562.3	501.9	446.1	404.3	357.8	353.2
82.5°	441.5	460.0	478.6	469.3	436.8	390.3	348.5	297.4	250.9	218.4	218.4
85°	158.0	171.9	209.1	218.4	237.0	237.0	199.8	167.3	134.8	111.5	111.5
87.5°	46.5	46.5	51.1	51.1	46.5	51.1	41.8	46.5	51.1	32.5	32.5
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)