

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: P318224

Luminaire Tested: **GLEON-SA0D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55403 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

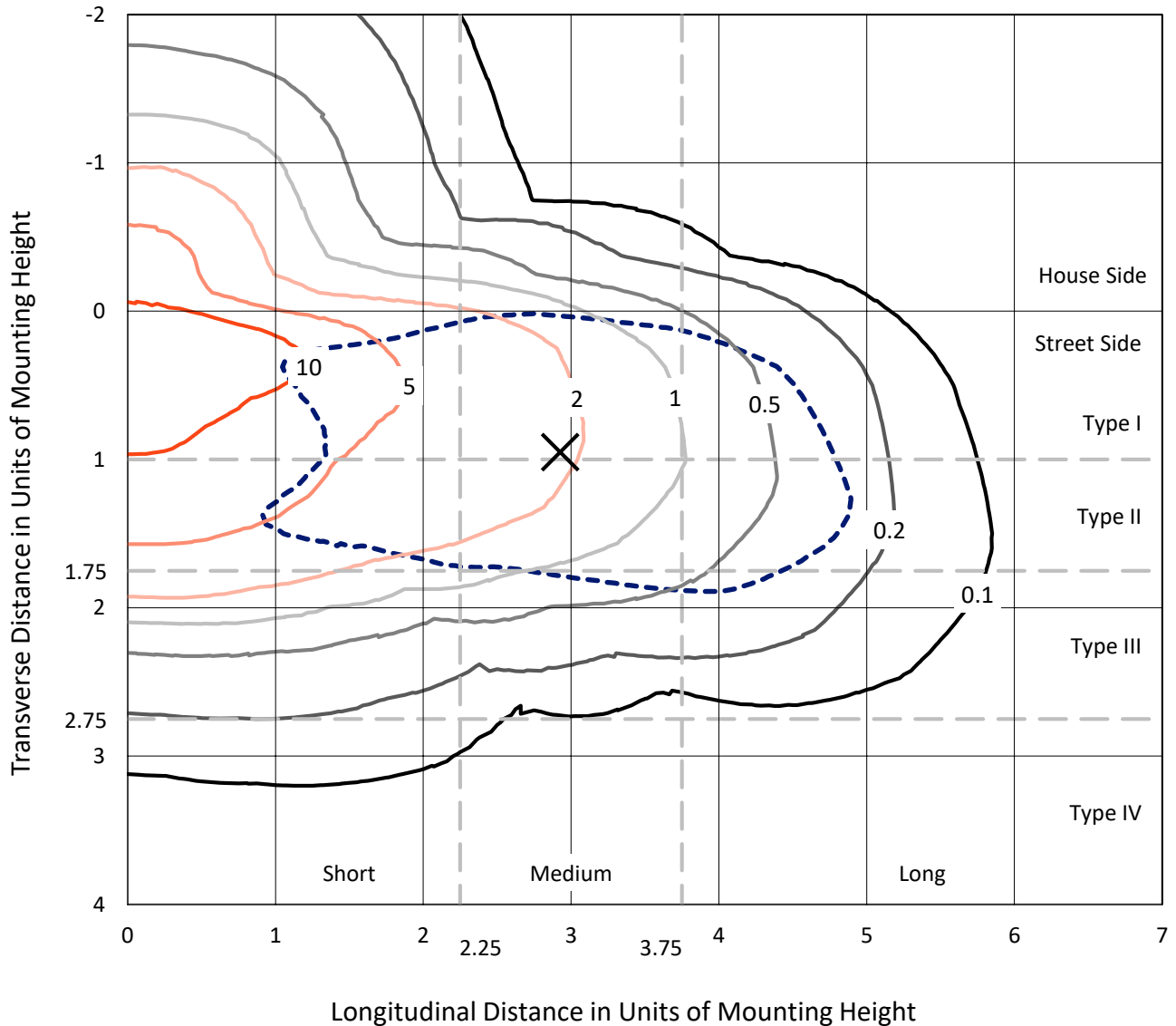
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

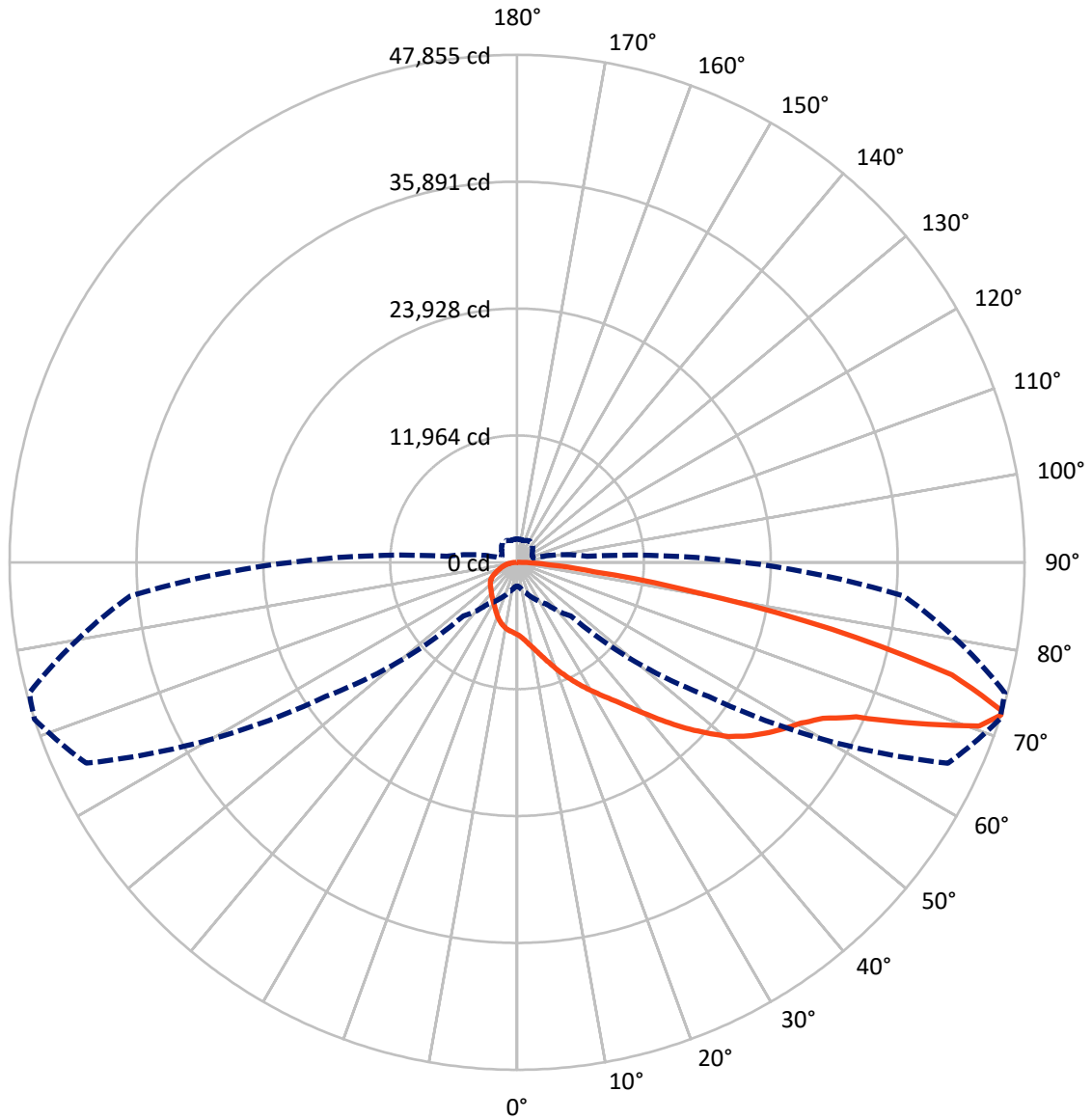
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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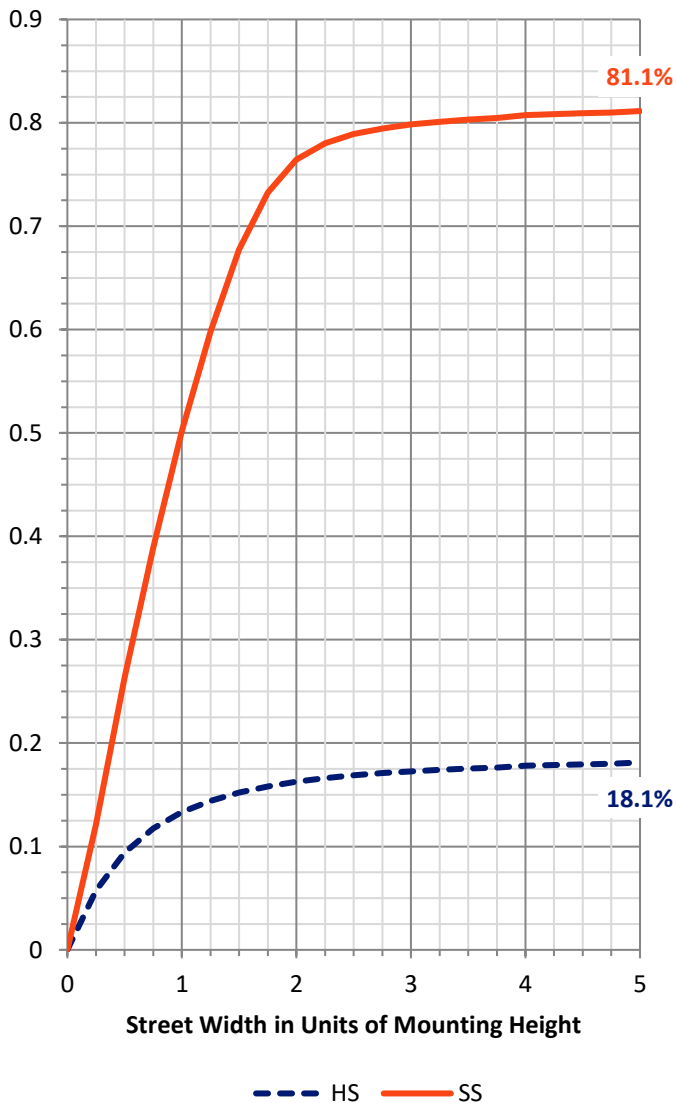
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10277.6	0.0	10277.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	45125.4	0.0	45125.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	55403.0	0.0	55403.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.0	1.2
10°-20°	2207.1	4.0
20°-30°	3867.5	7.0
30°-40°	5734.3	10.4
40°-50°	8386.8	15.1
50°-60°	11540.2	20.8
60°-70°	12847.7	23.2
70°-80°	8705.6	15.7
80°-90°	1430.8	2.6
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°	55403.0	100.0
0°-180°	55403.0	100.0

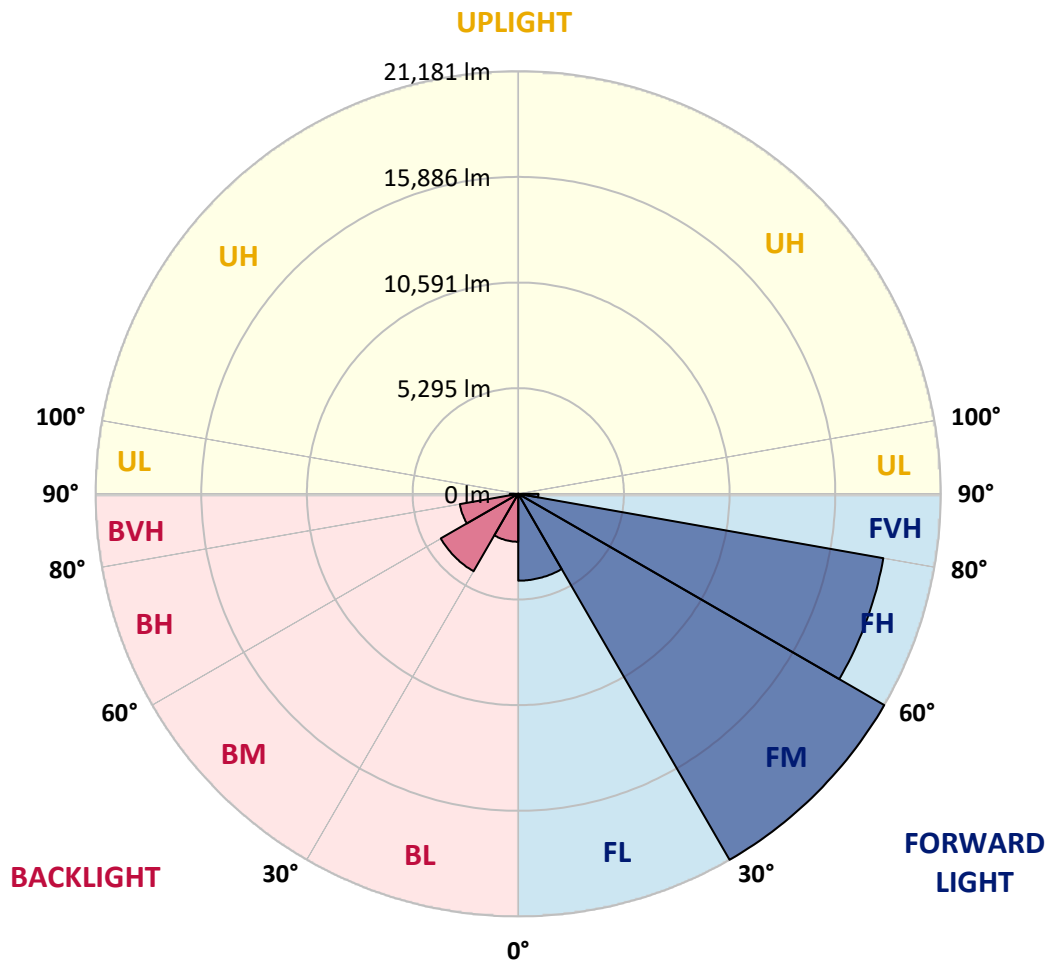


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4355.0	7.9			
FM (30°-60°)	21181.3	38.2			
FH (60°-80°)	18579.8	33.5			G5
FVH (80°-90°)	1009.3	1.8			G5
BL (0°-30°)	2402.5	4.3	B3/2500		
BM (30°-60°)	4480.1	8.1	B3/5000		
BH (60°-80°)	2973.5	5.4	B4/5000		G4/5000
BVH (80°-90°)	421.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0
2.5°	7529.5	7518.0	7478.0	7478.0	7401.7	7336.8	7214.7	7132.7	7035.4	7001.1	6886.6
5°	8258.2	8262.0	8212.4	8178.1	8065.5	7928.2	7720.2	7531.4	7342.5	7266.2	7031.6
7.5°	8870.5	8862.9	8849.6	8820.9	8716.0	8574.9	8294.4	8014.0	7735.5	7621.0	7216.6
10°	9263.5	9280.7	9292.1	9305.5	9261.6	9160.5	8895.3	8553.9	8189.5	8033.1	7437.9
12.5°	9461.9	9492.4	9545.9	9637.4	9709.9	9698.5	9505.8	9143.3	8710.3	8513.8	7714.5
15°	9578.3	9618.3	9702.3	9866.3	10070.5	10186.8	10135.3	9807.2	9324.6	9082.3	8052.2
17.5°	9650.8	9683.2	9812.9	10032.3	10335.6	10644.7	10780.1	10505.4	10018.9	9742.3	8439.4
20°	9700.4	9725.2	9887.3	10144.9	10537.8	11030.0	11407.7	11339.0	10783.9	10425.3	8843.8
22.5°	9811.0	9832.0	9986.5	10246.0	10680.9	11316.1	12012.4	12115.5	11590.8	11184.5	9276.9
25°	10120.1	10120.1	10249.8	10431.0	10839.2	11564.1	12523.7	12979.6	12415.0	11941.9	9677.5
27.5°	10709.5	10703.8	10751.5	10814.4	11123.5	11816.0	12979.6	13742.7	13269.6	12752.6	10066.6
30°	11407.7	11445.9	11451.6	11421.1	11566.0	12130.7	13401.2	14547.7	14129.9	13572.9	10465.3
32.5°	12306.2	12331.0	12302.4	12201.3	12180.3	12577.1	13815.2	15390.9	15060.9	14429.4	10829.7
35°	13447.0	13399.3	13309.6	13103.6	12907.1	13174.2	14288.3	16234.1	16106.2	15465.3	11331.4
37.5°	14669.8	14671.7	14561.1	14093.7	13822.8	13937.3	14940.7	17189.8	17371.0	16697.6	11974.3
40°	15650.3	15701.8	15770.5	15156.2	14805.2	14963.6	15770.5	18298.1	18866.6	18158.9	12811.7
42.5°	16335.2	16394.3	16588.9	16203.5	15839.2	16133.0	16747.2	19480.9	20545.3	19845.2	13792.3
45°	17060.1	17092.5	17229.8	17063.9	16831.1	17493.1	17847.9	20705.6	22321.4	21642.2	14889.2
47.5°	17823.1	17857.5	17998.6	17888.0	17765.9	18763.6	18996.3	21859.7	24023.0	23616.6	16060.5
50°	18765.5	18788.4	18921.9	18721.6	18759.8	19721.2	20022.6	22918.4	25806.6	25390.8	17235.6
52.5°	20051.3	20057.0	20242.0	20060.8	19881.5	20423.2	20905.9	23916.1	27204.9	27008.4	18410.7
55°	21058.5	21119.5	21726.2	21688.0	21585.0	21060.4	21644.1	24866.1	28452.5	28546.0	19658.3
57.5°	20415.6	20654.1	21882.6	22748.7	23591.8	22645.6	22641.8	25936.3	29612.4	30054.9	21029.9
60°	17880.4	18204.7	20015.0	21936.0	24574.3	25404.1	24713.5	27243.1	30783.7	31550.5	22748.7
62.5°	12769.8	13303.9	15757.1	18824.6	23227.5	27231.6	28929.4	29316.7	32376.5	33282.7	24982.5
65°	6455.5	6859.9	8916.3	12611.4	18557.6	26037.4	33511.6	33856.9	35144.5	35949.6	28422.0
67.5°	3922.1	4074.7	5078.2	7014.4	11377.2	20282.1	35007.2	41424.5	40501.2	40928.5	33326.6
70°	2890.1	3002.6	3628.3	4658.5	6543.2	11901.8	30417.4	46825.0	46218.4	46170.7	36951.1
72°	2251.0	2333.0	2886.3	3763.8	4784.4	7140.3	22046.6	44831.6	47855.2	47614.8	36619.1
72.5°	2134.7	2207.1	2710.8	3542.5	4521.1	6472.6	19822.3	43486.7	47736.9	47628.2	36189.9
75°	1680.6	1732.1	2006.8	2739.4	3538.7	3672.2	10862.1	33700.5	42347.8	44108.6	32550.1
77.5°	1390.7	1398.3	1543.3	1993.5	2758.5	2596.3	5335.7	23382.0	30323.9	32260.2	23057.7
80°	1133.1	1142.7	1211.4	1398.3	2087.0	1921.0	2533.4	13445.1	16978.0	16999.0	10965.1
82.5°	902.3	904.2	980.5	1022.5	1499.4	1373.5	1451.7	6312.4	7418.8	7136.5	3941.2
85°	635.2	621.9	957.6	839.4	980.5	881.3	801.2	2499.0	3067.5	2934.0	1234.2
87.5°	211.7	219.4	425.4	543.7	572.3	499.8	356.7	957.6	1157.9	1148.4	391.1
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°	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0	6816.0
2.5°	6850.4	6789.3	6699.6	6600.5	6522.2	6442.1	6383.0	6352.5	6318.1	6289.5	6323.8
5°	6922.8	6808.4	6617.6	6430.7	6293.3	6171.2	6083.5	6037.7	5995.7	5967.1	5970.9
7.5°	7041.1	6856.1	6535.6	6262.8	6072.0	5940.4	5850.7	5820.2	5793.5	5785.9	5795.4
10°	7167.0	6894.2	6426.9	6064.4	5846.9	5738.2	5698.1	5719.1	5738.2	5755.4	5774.4
12.5°	7310.1	6928.6	6268.5	5831.7	5646.6	5604.7	5644.7	5736.3	5803.1	5843.1	5867.9
15°	7497.0	6959.1	6085.4	5598.9	5474.9	5522.6	5658.1	5816.4	5932.8	6007.2	6018.6
17.5°	7668.7	6957.2	5850.7	5364.3	5335.7	5474.9	5679.1	5902.3	6058.7	6163.6	6184.6
20°	7846.1	6905.7	5578.0	5135.4	5194.5	5423.4	5688.6	5957.6	6146.4	6268.5	6297.1
22.5°	8012.1	6816.0	5278.5	4927.4	5076.2	5354.8	5652.4	5925.1	6114.0	6213.2	6243.7
25°	8124.7	6659.6	4975.1	4751.9	4971.3	5270.8	5534.1	5753.5	5894.6	5944.2	5951.9
27.5°	8181.9	6455.5	4689.0	4599.3	4862.6	5133.5	5314.7	5423.4	5463.5	5459.7	5452.0
30°	8189.5	6186.5	4442.9	4475.3	4736.7	4931.3	5017.1	4996.1	4944.6	4856.9	4864.5
32.5°	8164.7	5883.2	4236.9	4357.1	4576.4	4685.2	4689.0	4587.9	4450.5	4311.3	4273.1
35°	8172.3	5585.6	4055.7	4223.5	4381.9	4429.6	4385.7	4236.9	4049.9	3870.6	3832.5
37.5°	8256.3	5326.1	3899.2	4069.0	4166.3	4177.7	4114.8	3958.4	3821.0	3645.5	3630.2
40°	8456.6	5141.1	3750.4	3895.4	3950.7	3956.5	3866.8	3756.2	3767.6	3674.1	3672.2
42.5°	8817.1	5061.0	3618.8	3714.2	3748.5	3760.0	3691.3	3620.7	3719.9	3658.9	3637.9
45°	9282.6	5080.1	3508.2	3536.8	3599.7	3653.1	3611.2	3525.3	3563.5	3298.3	3210.6
47.5°	9820.6	5202.1	3420.4	3384.2	3492.9	3594.0	3529.1	3399.4	3264.0	3000.7	2951.1
50°	10450.1	5391.0	3340.3	3233.5	3376.5	3513.9	3449.0	3264.0	3059.9	2932.0	2914.9
52.5°	11106.3	5621.8	3260.2	3067.5	3229.6	3452.8	3420.4	3233.5	2981.6	2855.7	2832.9
55°	11850.3	5854.6	3159.1	2874.8	3071.3	3424.2	3407.1	3122.8	2922.5	2851.9	2834.8
57.5°	12775.5	6119.7	3025.5	2674.5	2922.5	3321.2	3267.8	3056.0	2861.5	2808.1	2802.3
60°	13981.1	6510.8	2832.9	2460.9	2741.3	3162.9	3151.4	2958.8	2764.2	2726.0	2718.4
62.5°	15789.6	7157.5	2567.7	2247.2	2539.1	2893.9	2998.8	2827.1	2661.2	2659.3	2663.1
65°	18593.8	8130.4	2279.6	2060.3	2335.0	2666.9	2821.4	2691.7	2556.2	2594.4	2600.1
67.5°	21844.4	8937.3	1997.3	1877.1	2127.0	2451.3	2661.2	2556.2	2417.0	2516.2	2518.1
70°	22926.1	8216.2	1749.3	1695.9	1911.5	2243.4	2487.6	2407.4	2266.3	2365.5	2355.9
72°	21335.1	6632.9	1589.1	1558.5	1749.3	2071.7	2333.0	2268.2	2128.9	2195.7	2170.9
72.5°	20833.4	6323.8	1549.0	1524.2	1705.4	2027.8	2293.0	2233.9	2094.6	2151.8	2128.9
75°	18584.3	5492.1	1331.5	1337.3	1488.0	1814.2	2067.9	2048.8	1905.7	1911.5	1903.8
77.5°	13479.4	4027.0	1121.7	1159.8	1266.7	1594.8	1840.9	1829.4	1673.0	1644.4	1638.7
80°	6255.2	2054.5	913.8	930.9	1041.6	1333.4	1570.0	1554.7	1428.8	1392.6	1371.6
82.5°	2142.3	976.7	686.8	698.2	806.9	1074.0	1362.1	1352.5	1247.6	1177.0	1133.1
85°	765.0	486.4	480.7	469.3	576.1	845.1	1186.6	1135.0	980.5	835.5	831.7
87.5°	248.0	207.9	248.0	246.1	335.7	572.3	862.3	734.4	711.6	591.4	579.9
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)