

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: P647632

Luminaire Tested: **GALN-SA8D-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50053.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

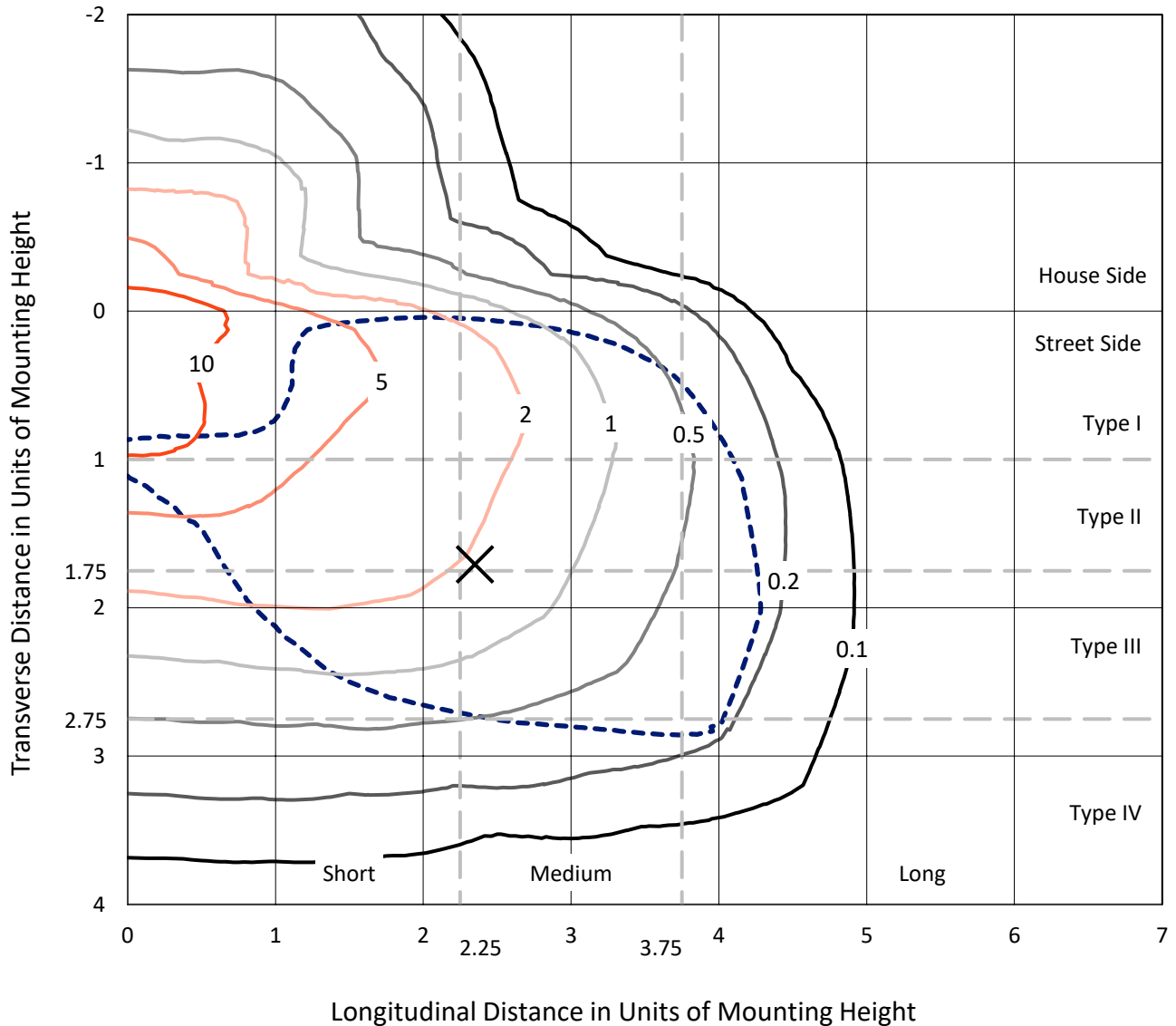
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

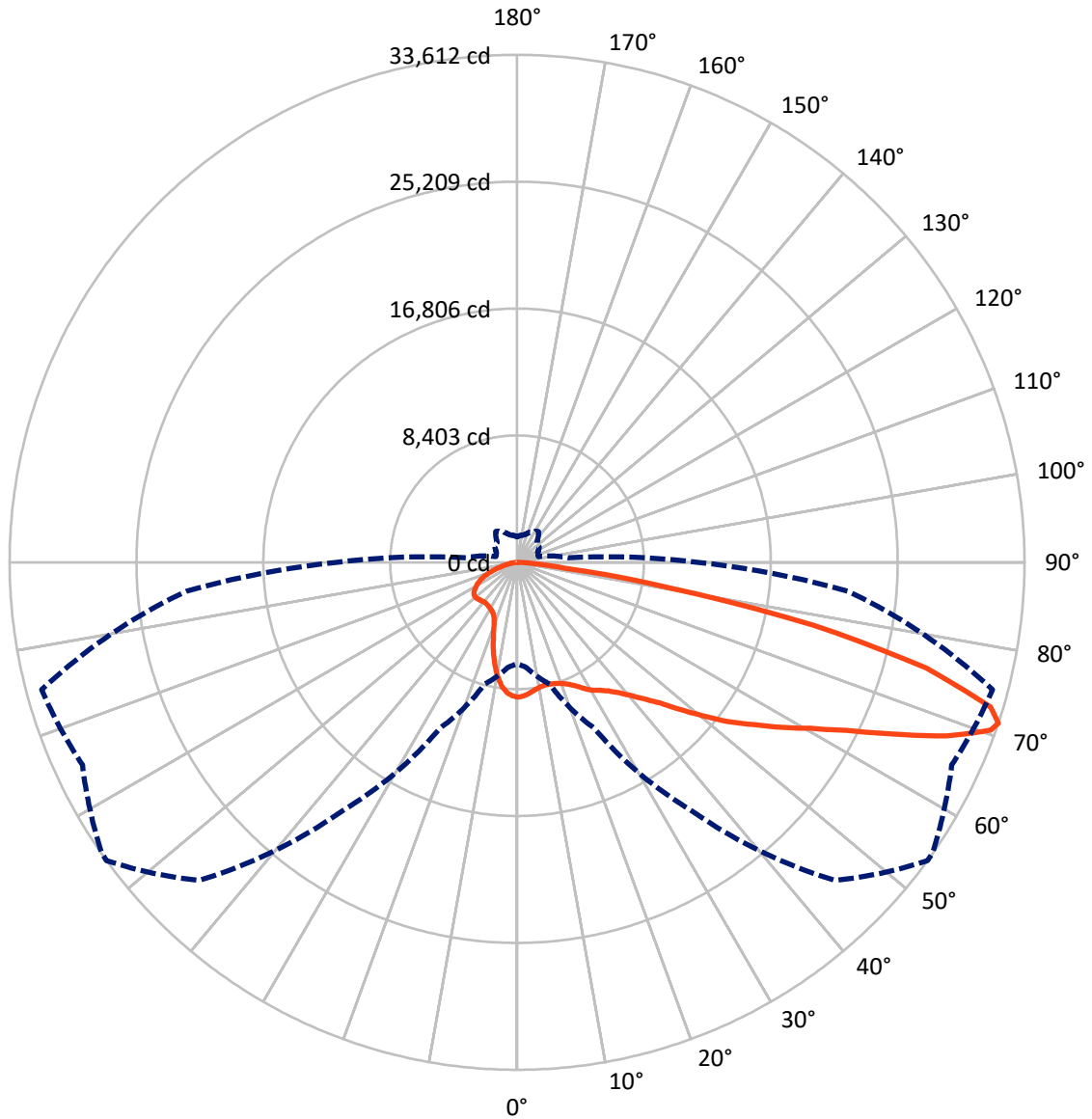
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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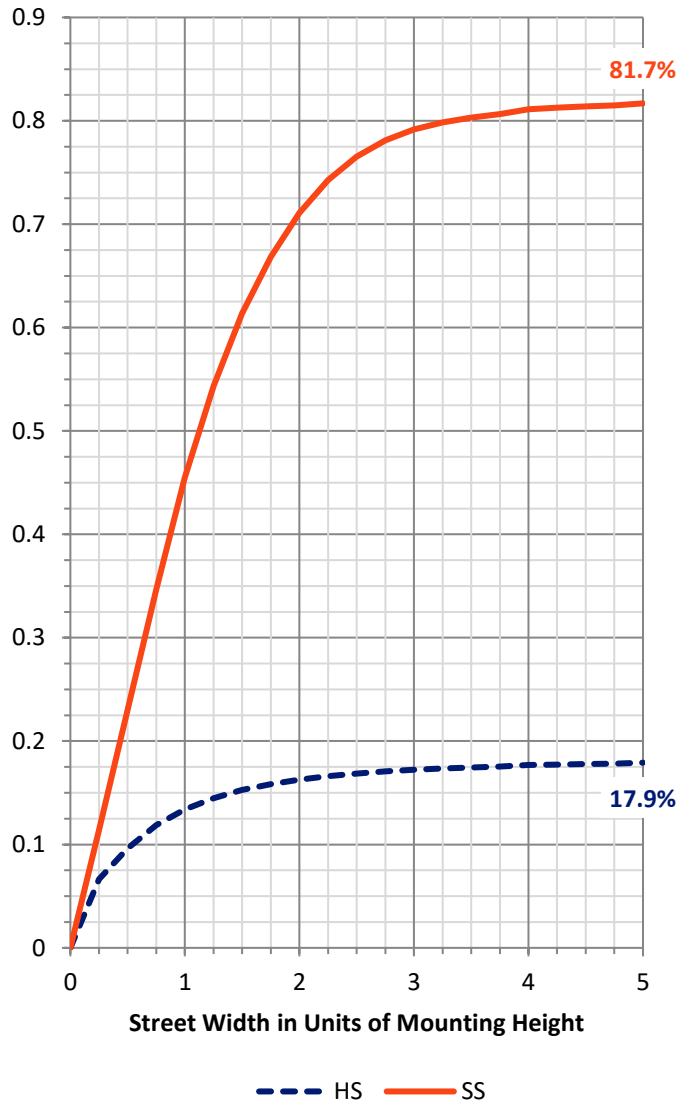
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9036.8	0.0	9036.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41016.5	0.0	41016.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	50053.3	0.0	50053.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.8	1.6
10°-20°	2101.4	4.2
20°-30°	3498.9	7.0
30°-40°	5173.7	10.3
40°-50°	7287.3	14.6
50°-60°	9758.0	19.5
60°-70°	12299.2	24.6
70°-80°	8400.3	16.8
80°-90°	738.7	1.5
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°	50053.3	100.0
0°-180°	50053.3	100.0

Coefficient of Utilization

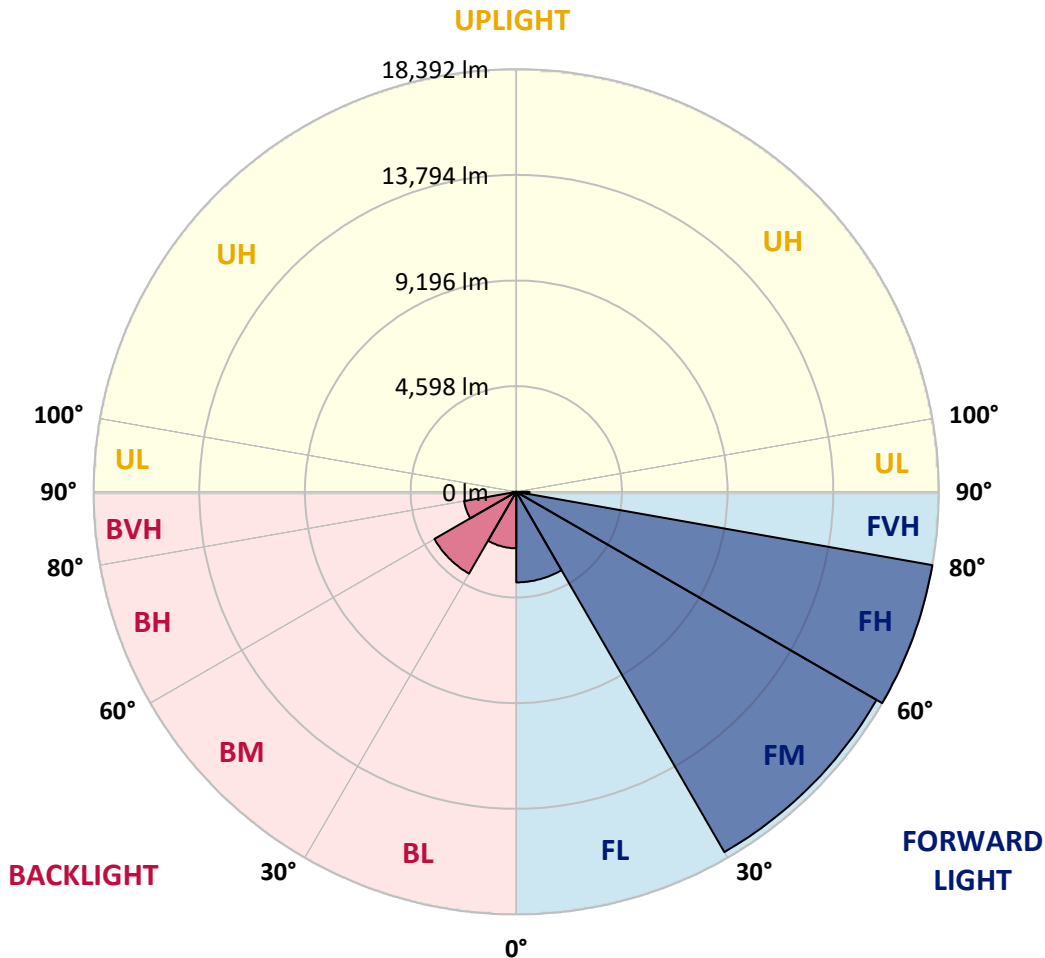


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3940.0	7.9			
FM (30°-60°)	18107.5	36.2			
FH (60°-80°)	18391.5	36.7			G5
FVH (80°-90°)	577.4	1.2			G4/750
BL (0°-30°)	2456.0	4.9	B3/2500		
BM (30°-60°)	4111.5	8.2	B3/5000		
BH (60°-80°)	2308.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	161.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3
2.5°	8627.4	8668.0	8678.8	8705.9	8762.6	8808.6	8854.6	8849.2	8914.0	8941.1	8965.4
5°	8243.5	8254.3	8294.9	8349.0	8449.0	8576.0	8700.5	8703.1	8862.6	8989.7	9051.9
7.5°	7962.3	7997.5	8024.5	8081.3	8186.7	8324.6	8522.0	8538.2	8822.1	9073.6	9206.0
10°	7778.5	7819.0	7848.8	7919.1	8024.5	8178.6	8392.2	8421.9	8792.4	9206.0	9438.5
12.5°	7610.8	7651.4	7678.4	7770.3	7908.2	8097.6	8338.2	8373.3	8803.2	9360.1	9692.7
15°	7713.6	7746.1	7735.3	7762.3	7854.2	8070.5	8359.8	8394.9	8843.8	9508.8	9944.1
17.5°	8170.5	8197.5	8108.4	8005.6	7962.3	8121.8	8427.4	8465.2	8924.9	9662.9	10201.0
20°	8843.8	8916.7	8722.1	8492.3	8284.1	8305.7	8568.0	8608.5	9038.4	9817.0	10463.2
22.5°	9719.7	9773.8	9535.8	9157.3	8773.4	8576.0	8778.8	8803.2	9208.7	10017.2	10749.8
25°	10749.8	10782.3	10452.4	9965.8	9411.5	9038.4	9068.2	9111.4	9489.9	10244.2	11004.0
27.5°	11750.2	11852.9	11471.7	10876.9	10146.9	9525.0	9465.6	9492.6	9795.4	10371.3	11179.7
30°	12937.1	12929.0	12526.1	11836.7	10901.2	10055.0	9841.4	9836.0	9960.3	10433.5	11306.8
32.5°	13883.4	13994.2	13599.5	12847.9	11763.7	10603.9	10100.9	10090.1	10087.4	10541.6	11496.0
35°	14959.4	14975.7	14613.4	13856.4	12696.5	11293.3	10463.2	10409.1	10347.0	10774.2	11752.9
37.5°	15922.0	15997.6	15665.1	14816.2	13613.0	12009.7	10960.7	10925.6	10736.3	11177.0	12163.8
40°	16673.6	16730.4	16530.3	15721.9	14516.0	12783.0	11593.3	11528.5	11298.7	11836.7	12712.7
42.5°	16919.6	17035.9	17114.3	16716.8	15554.2	13699.5	12372.0	12290.9	12115.2	12837.1	13345.4
45°	16938.6	17122.4	17536.1	17554.9	16597.9	14797.2	13280.5	13223.7	13210.1	14118.6	14234.9
47.5°	16795.3	16981.8	17676.6	18052.5	17527.9	15905.7	14591.8	14502.5	14510.6	15703.0	15232.5
50°	16449.2	16670.9	17514.5	18371.5	18255.3	17057.5	15976.0	15946.3	16113.9	17511.7	16268.0
52.5°	15797.6	16065.3	17346.8	18571.6	18796.0	18049.7	17549.5	17465.8	17890.2	19474.6	17400.8
55°	13994.2	14397.1	16733.0	18682.4	19309.6	18998.7	18966.3	19117.7	19680.1	21615.9	18647.2
57.5°	13053.3	13356.2	15400.1	18701.3	19958.5	20101.8	20620.9	20658.8	21642.9	23889.7	20055.8
60°	12539.7	12807.3	14670.1	18577.0	20864.3	21467.2	22313.5	22448.6	23559.8	26352.7	21515.9
62.5°	12090.9	12320.7	14232.1	18147.0	21886.3	23492.3	24506.1	24571.0	25736.3	29072.6	22956.9
65°	11033.7	11295.9	13350.8	17717.2	22767.7	26022.9	27415.3	27339.6	28053.3	31419.4	23860.0
67.5°	9608.9	9941.4	11704.2	16232.8	23203.0	28788.7	30692.1	30597.5	30340.7	32957.8	24119.5
70°	7789.3	7967.7	9598.1	13667.1	21464.5	30240.6	33279.5	33179.5	31757.4	33160.6	22892.0
71°	6702.4	6980.9	8357.0	12139.5	20018.0	29797.2	33612.1	33585.1	31760.1	32600.9	21967.4
72.5°	5231.6	5401.9	6618.6	9406.1	17014.3	27277.4	32790.2	32893.0	31070.7	31046.3	20061.3
75°	3309.3	3385.0	4152.9	5537.1	9335.8	19317.8	27991.2	28269.7	27588.3	25411.9	14918.9
77.5°	1922.3	2019.7	2487.4	3263.3	4033.9	10484.8	20028.8	20331.6	19169.1	13991.5	6107.6
80°	1119.3	1227.4	1638.4	1895.3	1852.0	3890.6	10198.3	10714.7	8300.3	3533.7	1714.1
82.5°	621.9	694.8	1151.8	1154.5	986.8	1270.7	3209.3	3358.0	2368.4	1424.8	700.2
85°	451.5	511.0	743.5	673.2	473.2	546.1	1116.6	1170.7	957.1	600.2	227.1
87.5°	159.5	227.1	408.3	324.5	129.7	113.5	321.7	262.2	243.4	167.6	51.4
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°	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3	8930.3
2.5°	8978.9	8984.3	8957.3	8908.6	8860.0	8797.8	8727.5	8673.4	8649.1	8646.4	8643.7
5°	9076.2	9089.8	8987.0	8835.6	8668.0	8462.5	8286.8	8086.7	8035.3	7954.2	7978.5
7.5°	9233.1	9224.9	9022.2	8700.5	8308.4	7873.1	7505.4	7291.8	7070.1	7007.9	7010.7
10°	9457.5	9406.1	9022.2	8424.7	7770.3	7124.2	6610.5	6286.1	6110.3	5964.3	5910.2
12.5°	9695.4	9565.6	8935.7	8038.0	7078.2	6286.1	5734.5	5296.5	5182.9	5064.0	5066.7
15°	9922.5	9706.2	8765.3	7494.6	6332.0	5391.1	4855.8	4593.5	4558.4	4571.9	4569.2
17.5°	10127.9	9806.2	8505.7	6889.0	5461.4	4623.3	4339.4	4358.3	4452.9	4520.6	4528.6
20°	10336.1	9865.7	8119.2	6077.9	4639.5	4158.3	4169.1	4317.8	4461.1	4553.0	4566.5
22.5°	10533.5	9892.7	7664.9	5293.8	4044.7	3960.9	4120.4	4280.0	4420.5	4509.8	4523.2
25°	10663.3	9830.6	7021.5	4474.6	3752.7	3890.6	4058.2	4193.4	4312.4	4404.3	4425.9
27.5°	10698.4	9630.5	6223.8	3812.2	3617.5	3823.0	3977.1	4077.2	4169.1	4255.6	4271.8
30°	10679.5	9335.8	5347.9	3422.9	3539.1	3744.6	3863.6	3936.5	4047.4	4115.0	4128.5
32.5°	10649.8	8992.4	4434.1	3214.7	3474.2	3671.6	3741.9	3806.8	3804.0	3777.0	3796.0
35°	10660.6	8581.4	3693.3	3090.3	3417.5	3617.5	3677.0	3595.9	3363.4	3352.6	3341.8
37.5°	10717.4	8175.9	3155.2	3003.8	3387.7	3609.4	3641.9	3268.7	3063.3	2968.7	2944.3
40°	10863.3	7702.8	2801.0	2938.9	3385.0	3671.6	3482.3	3103.8	2709.1	2525.3	2511.7
42.5°	11058.1	7237.7	2584.7	2898.4	3417.5	3766.2	3417.5	2871.3	2441.4	2333.3	2317.1
45°	11347.3	6705.1	2465.7	2879.4	3466.1	3801.4	3395.8	2701.0	2333.3	2246.7	2246.7
47.5°	11674.5	6196.8	2400.8	2865.9	3528.3	3777.0	3203.9	2646.9	2281.9	2292.7	2344.1
50°	11998.9	5756.1	2352.2	2836.2	3582.4	3763.5	3125.4	2644.2	2295.4	2433.3	2525.3
52.5°	12374.8	5445.2	2292.7	2787.5	3582.4	3677.0	3101.1	2698.3	2333.3	2373.8	2414.4
55°	12829.0	5347.9	2217.0	2682.0	3517.5	3460.7	3087.6	2776.7	2360.3	2265.7	2281.9
57.5°	13429.2	5504.7	2144.0	2549.6	3368.8	3236.3	3082.2	2798.3	2298.1	2219.7	2203.5
60°	14126.7	5815.6	2122.4	2414.4	3166.0	3044.3	3049.8	2736.1	2211.6	2130.5	2144.0
62.5°	14616.1	6002.2	2108.9	2311.7	2944.3	2833.4	2971.3	2660.4	2173.8	2103.5	2117.0
65°	14616.1	5775.0	1984.5	2154.8	2657.7	2579.3	2876.7	2565.8	2125.1	2043.9	2030.5
67.5°	14061.8	5112.7	1795.3	1919.6	2341.4	2290.0	2744.3	2452.2	2052.1	1989.9	1957.5
70°	12618.0	3877.1	1557.3	1643.8	1941.2	1987.2	2573.9	2298.1	1930.4	1854.7	1806.1
71°	11982.7	3376.9	1457.3	1503.3	1787.1	1854.7	2492.8	2233.3	1876.4	1768.2	1681.6
72.5°	10758.0	2844.2	1305.9	1324.8	1527.6	1649.2	2322.5	2108.9	1773.6	1619.5	1522.2
75°	8173.2	2076.4	1051.7	1040.9	1130.1	1308.5	1965.6	1879.0	1554.6	1346.4	1289.7
77.5°	3531.0	1130.1	786.8	794.9	767.8	992.2	1546.5	1614.1	1332.9	1095.0	1043.6
80°	1070.7	651.6	538.0	548.9	513.7	665.1	1089.5	1265.3	1070.7	851.7	781.4
82.5°	548.9	389.3	367.7	362.3	327.1	375.8	659.7	865.2	765.1	532.6	470.4
85°	238.0	208.2	181.1	175.7	154.1	135.1	235.2	432.6	405.5	297.4	283.9
87.5°	59.5	54.1	35.2	32.4	18.9	2.7	0.0	0.0	0.0	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)