

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: P647619

Luminaire Tested: **GALN-SA8D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41026.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

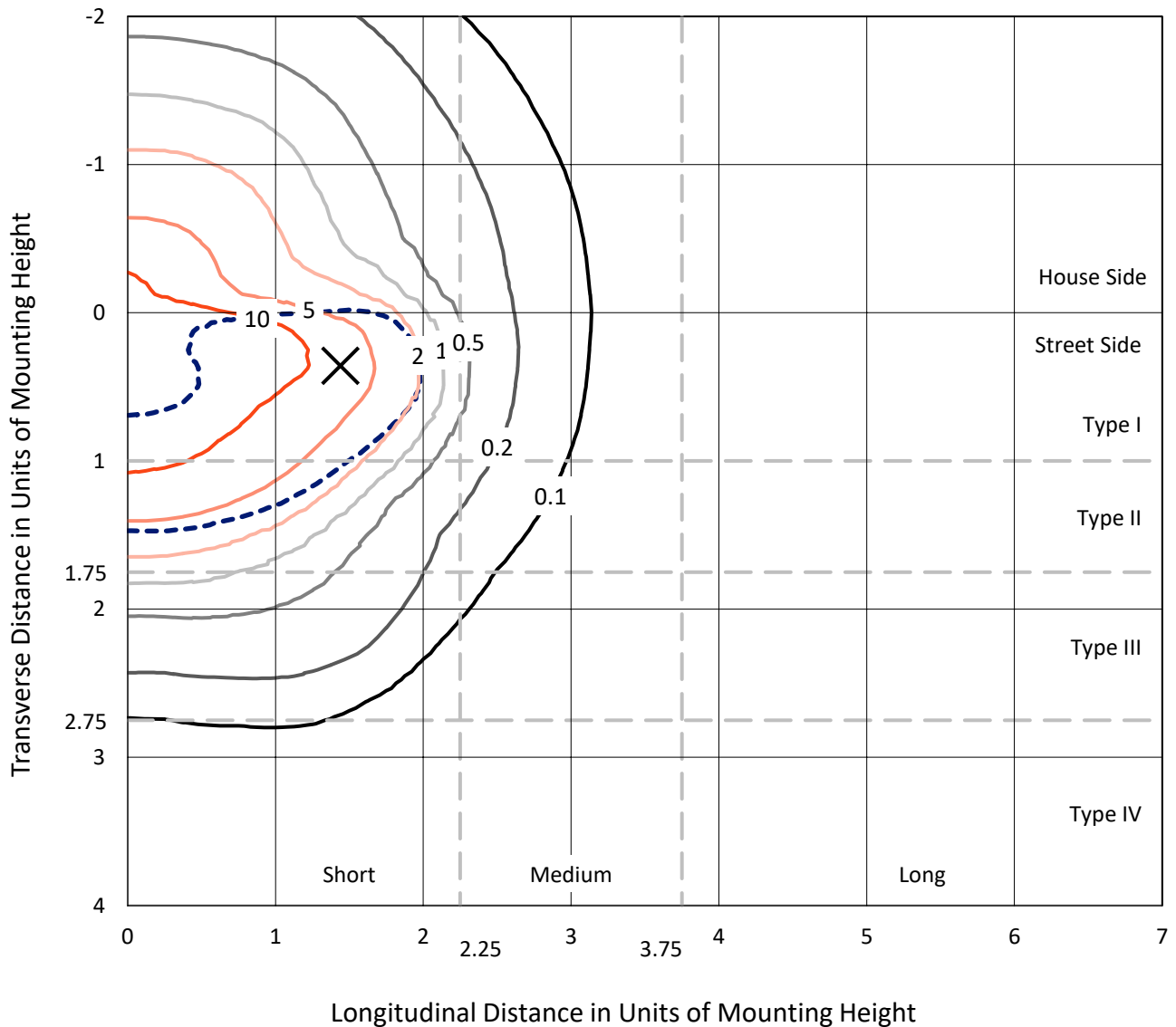
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647619
 CATALOG NUMBER: GALN-SA8D-835-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

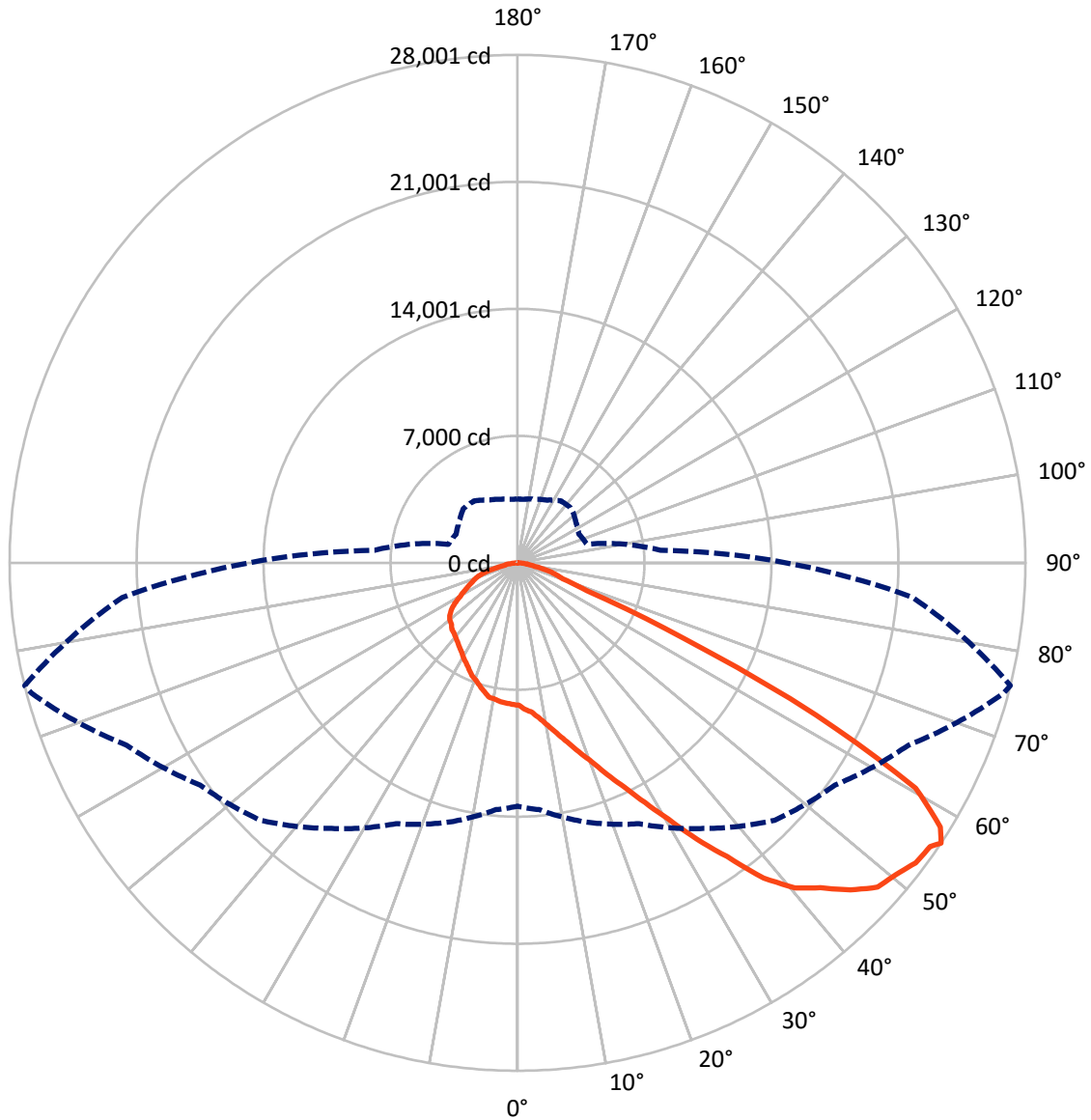
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647619
CATALOG NUMBER: GALN-SA8D-835-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647619
 CATALOG NUMBER: GALN-SA8D-835-U-T2-GRSWH

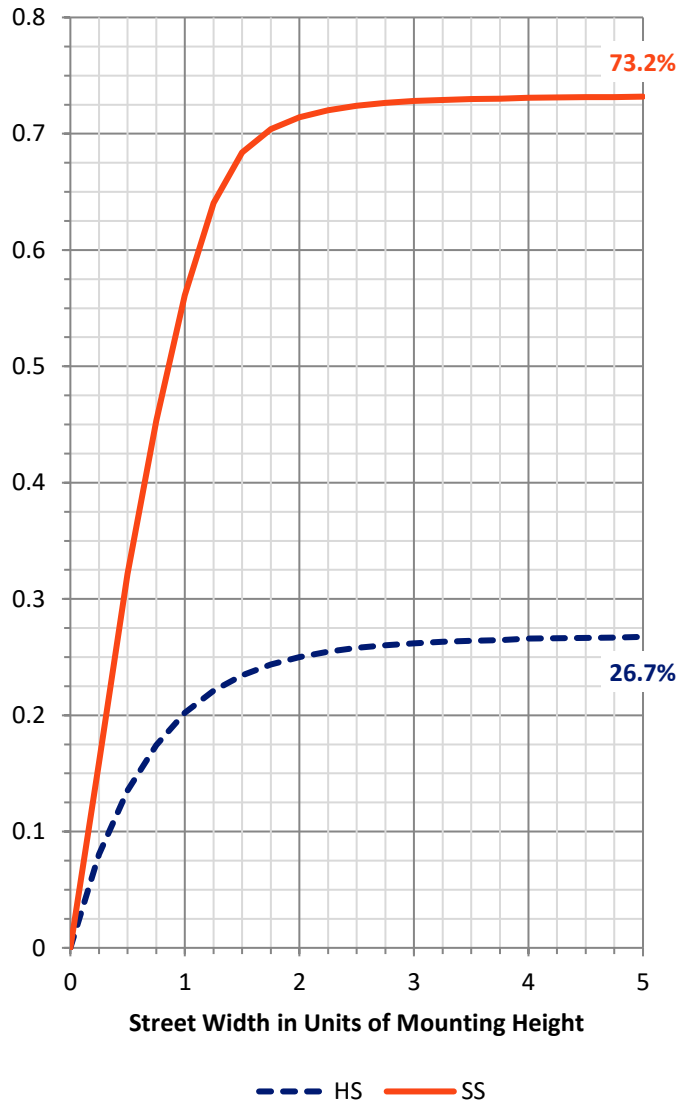
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11030.9	0.0	11030.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	29996.0	0.0	29996.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	41026.9	0.0	41026.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.5	1.9
10°-20°	2445.4	6.0
20°-30°	4276.8	10.4
30°-40°	6696.2	16.3
40°-50°	9741.1	23.7
50°-60°	10706.0	26.1
60°-70°	4778.7	11.6
70°-80°	1380.3	3.4
80°-90°	223.9	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°	41026.9	100.0
0°-180°	41026.9	100.0

Coefficient of Utilization



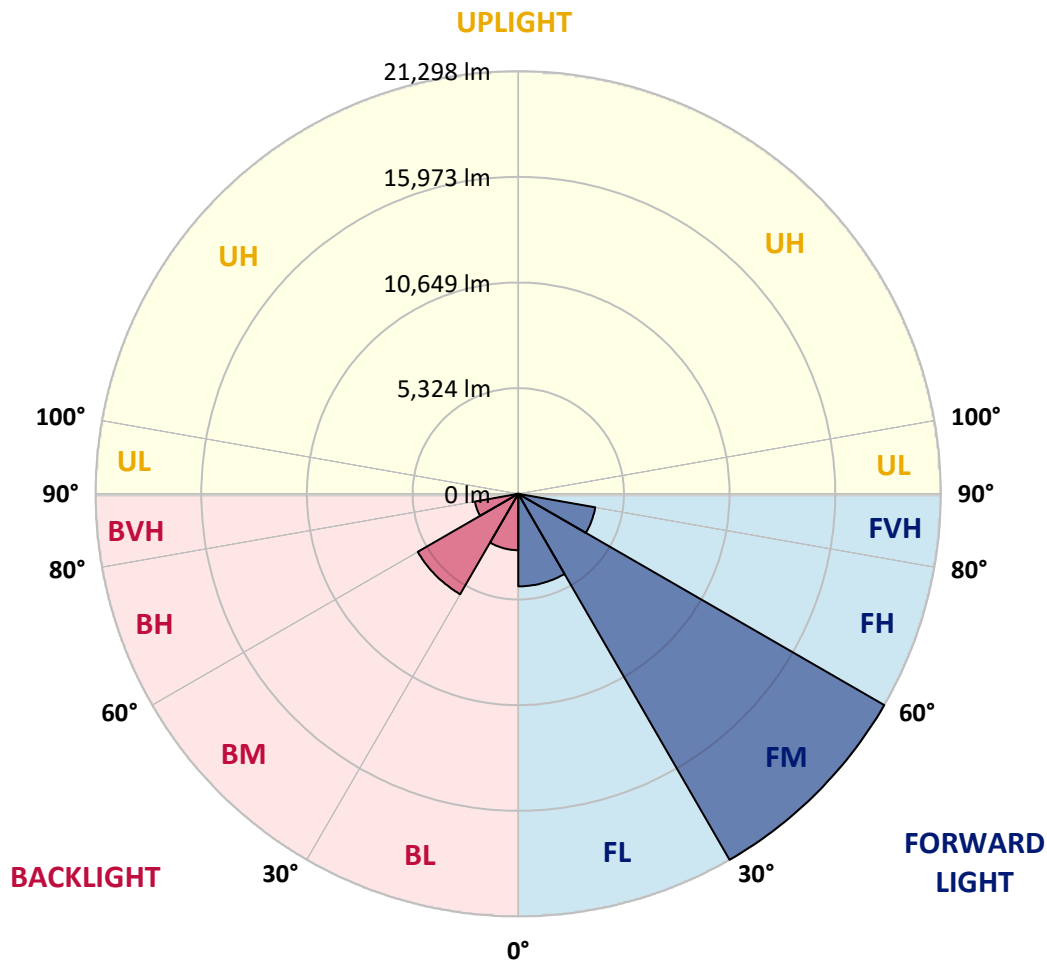
REPORT NUMBER: P647619
 CATALOG NUMBER: GALN-SA8D-835-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4662.2	11.4			
FM (30°-60°)	21297.8	51.9			
FH (60°-80°)	3939.5	9.6			G2/5000
FVH (80°-90°)	96.4	0.2			G1/100
BL (0°-30°)	2838.5	6.9	B4/5000		
BM (30°-60°)	5845.5	14.2	B4/8500		
BH (60°-80°)	2219.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	127.5	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





REPORT NUMBER: P647619

CATALOG NUMBER: GALN-SA8D-835-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0
2.5°	8647.7	8509.4	8498.8	8461.6	8482.9	8387.1	8286.1	8153.1	8014.9	8099.9	7897.8
5°	9254.0	9067.8	9142.3	9014.7	9030.7	8903.0	8695.6	8541.4	8371.1	8270.1	8126.5
7.5°	9466.8	9482.7	9535.9	9514.6	9408.2	9408.2	9269.9	8998.7	8700.9	8642.4	8403.1
10°	9754.0	9759.2	9700.7	9716.7	9865.6	9796.5	9674.2	9557.1	9174.3	9105.1	8679.6
12.5°	9855.0	9759.2	9855.0	9940.1	10115.6	10211.3	10184.7	10099.7	9690.1	9642.3	9020.0
15°	9871.0	9812.5	9892.3	10083.7	10238.0	10642.1	10844.2	10785.7	10243.2	10248.5	9403.0
17.5°	9796.5	9876.3	9908.2	10073.1	10429.4	10807.0	11392.0	11471.8	11025.0	10955.9	9886.9
20°	9897.5	9839.0	9881.6	10030.5	10503.9	11094.2	11860.0	12386.6	11759.0	11711.1	10386.8
22.5°	10285.8	10206.0	10195.4	10291.1	10631.5	11243.1	12354.6	13301.3	12652.5	12679.0	11009.1
25°	10588.9	10631.5	10594.2	10588.9	10801.6	11466.5	13008.8	14391.6	13865.1	13710.9	11743.0
27.5°	11110.1	11211.2	11136.8	11237.8	11189.9	11801.5	13476.8	15598.8	15173.4	14965.9	12407.8
30°	11833.5	11886.6	11817.5	11817.5	11673.9	12269.5	13902.3	16859.3	16683.9	16402.0	13189.6
32.5°	12785.5	12865.2	12727.0	12647.2	12625.9	12966.2	14668.2	18103.8	18401.7	18162.3	14226.7
35°	14045.9	13998.0	13833.2	13758.7	13471.5	14035.3	15806.3	19534.5	20316.3	19890.8	15481.9
37.5°	15157.5	15083.0	15072.4	14657.5	14726.7	15189.3	16774.2	20619.4	22172.4	22050.1	16806.2
40°	16194.6	16263.7	16375.3	16141.4	16035.0	16545.6	17901.7	21449.1	23613.7	23565.9	17827.3
42.5°	17306.1	17242.3	17439.1	17242.3	17082.7	17806.0	19125.0	22023.5	24879.5	24485.9	18896.3
45°	18917.6	18715.4	18784.6	18800.5	18683.6	18949.5	19630.2	22438.4	25767.7	25725.1	19678.1
47.5°	20263.1	20268.4	20151.4	20061.0	19704.7	19970.6	20194.0	22698.9	26788.8	26719.6	19981.2
50°	20763.0	20693.9	21034.3	21231.0	21252.3	20709.9	20635.4	22842.5	27325.9	27022.8	20284.4
52.5°	18965.4	19029.2	19566.4	20736.4	21411.9	21470.4	21151.3	23140.4	27544.0	27480.2	20529.0
55°	15263.8	15572.3	16455.1	17806.0	19406.8	21167.2	21709.7	23448.8	27661.0	27607.8	21614.0
56°	13418.3	13657.6	14806.5	15864.8	17875.2	20066.3	21358.7	23778.6	27751.4	28001.4	21869.3
57.5°	10801.6	11078.2	11902.6	13104.5	15476.5	17970.9	20390.7	23374.4	27400.4	27496.1	22055.4
60°	6754.4	6780.9	7770.2	8562.7	10232.6	12668.5	15561.7	20337.6	25358.2	25219.9	19811.1
62.5°	4430.2	4435.5	5334.3	5983.2	6743.7	7302.2	9158.3	13487.5	18710.2	18465.5	14104.4
65°	3111.3	3180.4	3877.1	4744.0	5052.5	4759.9	4701.4	7110.7	10450.6	10099.7	7578.7
67.5°	2276.3	2281.6	2898.5	3829.3	4276.0	3621.8	2941.1	3472.9	4137.7	4127.1	3510.1
70°	1505.1	1568.9	2042.3	2861.3	3371.8	2909.2	2403.9	2483.7	2632.6	2632.6	2611.3
72.5°	877.5	936.1	1249.8	1813.6	1893.4	1818.9	1904.0	2127.3	2223.1	2217.8	2191.1
75°	499.9	526.5	595.6	755.2	941.3	1111.5	1398.8	1611.5	1707.2	1765.7	1696.6
77.5°	292.5	308.5	351.0	430.8	489.3	601.0	760.5	909.5	1037.1	1021.1	1031.8
80°	154.3	154.3	196.8	255.3	340.4	425.5	505.3	590.3	659.5	675.4	691.4
82.5°	90.4	95.8	127.6	186.1	244.6	303.2	388.2	446.8	510.6	515.9	526.5
85°	47.8	53.2	79.8	122.3	164.9	186.1	191.4	180.8	196.8	186.1	212.7
87.5°	16.0	16.0	26.6	21.3	21.3	26.6	31.9	31.9	42.5	42.5	42.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647619

CATALOG NUMBER: GALN-SA8D-835-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0	7850.0
2.5°	7892.5	7892.5	7802.1	7631.9	7605.3	7536.1	7472.3	7467.0	7419.2	7376.6	7355.3
5°	8041.4	7876.6	7743.6	7589.4	7408.5	7323.5	7227.7	7121.3	7078.8	7121.3	7116.1
7.5°	8211.6	8073.4	7674.4	7387.3	7179.9	7094.8	6988.4	6876.7	6887.3	6887.3	6812.9
10°	8376.5	8190.3	7552.1	7185.2	6882.0	6818.2	6759.7	6802.2	6855.4	6866.0	6818.2
12.5°	8653.0	8232.9	7493.6	6983.0	6791.6	6653.3	6690.6	6807.6	6919.2	6887.3	6924.5
15°	8860.4	8270.1	7227.7	6775.6	6536.3	6600.1	6733.1	6812.9	6999.0	6977.7	7015.0
17.5°	9062.5	8291.4	6967.1	6499.1	6398.0	6573.5	6674.6	6903.3	6961.8	7089.4	7137.3
20°	9477.4	8333.9	6701.1	6328.9	6297.0	6499.1	6674.6	6780.9	6908.6	7020.3	7020.3
22.5°	9690.1	8312.6	6525.7	6105.5	6206.6	6334.2	6493.7	6674.6	6674.6	6780.9	6786.3
25°	9956.1	8227.5	6249.1	5999.2	6073.7	6196.0	6376.8	6312.9	6382.1	6382.1	6467.2
27.5°	10259.2	8046.7	6009.8	5807.7	5956.6	6089.5	6116.2	6073.7	5993.9	5983.2	5951.3
30°	10503.9	7823.3	5834.3	5743.9	5866.2	5940.6	5855.6	5765.2	5626.9	5616.2	5541.8
32.5°	10838.9	7546.8	5616.2	5584.4	5722.6	5727.9	5701.3	5563.1	5361.0	5275.9	5190.7
35°	11402.7	7387.3	5451.3	5499.2	5541.8	5525.8	5477.9	5329.0	5126.9	5089.7	5057.8
37.5°	11817.5	7270.2	5281.2	5339.7	5376.9	5398.2	5254.6	5089.7	5095.1	5020.6	4999.3
40°	12285.5	7195.8	5142.9	5169.5	5174.8	5243.9	5068.4	4988.6	5025.9	4978.0	5009.9
42.5°	12886.5	7217.1	4999.3	4978.0	5079.1	5052.5	4967.4	4861.0	4882.3	4738.7	4759.9
45°	13205.6	7360.7	4914.2	4818.5	4930.2	4924.8	4813.2	4712.1	4584.5	4307.9	4318.6
47.5°	13418.3	7397.9	4712.1	4648.3	4765.3	4834.4	4706.8	4472.8	4291.9	4095.2	4047.3
50°	13636.4	7467.0	4616.4	4483.4	4531.3	4696.1	4536.6	4313.2	4137.7	3962.2	3988.8
52.5°	13827.9	7600.0	4430.2	4233.4	4318.6	4499.4	4414.2	4143.0	3951.6	3808.0	3765.4
55°	14678.8	7897.8	4116.5	3861.1	4063.2	4291.9	4244.1	3914.4	3707.0	3632.5	3621.8
56°	14811.8	7908.5	3951.6	3733.5	3919.7	4222.8	4164.3	3813.3	3627.2	3510.1	3515.4
57.5°	14833.0	7780.8	3717.5	3616.5	3776.1	4121.8	4047.3	3733.5	3478.2	3371.8	3340.0
60°	13051.4	6073.7	3425.1	3361.3	3547.4	3813.3	3786.7	3515.4	3228.3	3105.9	3164.4
62.5°	8897.7	4451.5	3196.4	3185.7	3281.5	3542.1	3472.9	3228.3	2988.9	2909.2	2872.0
65°	5180.1	3377.2	2973.0	2930.5	3010.2	3148.5	3196.4	2941.1	2691.1	2637.9	2622.0
67.5°	3058.1	2792.2	2685.8	2616.6	2590.1	2675.1	2712.4	2563.5	2313.5	2239.1	2302.9
70°	2558.1	2483.7	2489.0	2372.0	2308.2	2249.7	2217.8	2084.8	1877.4	1781.6	1755.1
72.5°	2207.1	2175.3	2154.0	2047.6	1989.1	1856.1	1717.8	1584.9	1430.6	1350.9	1356.2
75°	1686.0	1675.3	1686.0	1632.7	1531.7	1425.3	1297.7	1127.5	1010.5	909.5	930.8
77.5°	1005.2	1037.1	1053.1	1031.8	989.2	893.5	813.7	702.0	590.3	510.6	499.9
80°	691.4	718.0	744.6	718.0	675.4	606.3	521.2	436.1	356.3	313.7	303.2
82.5°	526.5	553.1	569.1	542.5	489.3	414.8	356.3	297.9	234.0	191.4	180.8
85°	191.4	218.1	212.7	255.3	276.6	265.9	228.7	175.5	133.0	95.8	90.4
87.5°	53.2	47.8	53.2	53.2	53.2	47.8	42.5	42.5	42.5	26.6	21.3
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)