

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: P533004

Luminaire Tested: **GALN-SA8B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533004
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-SA8B-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 29486 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

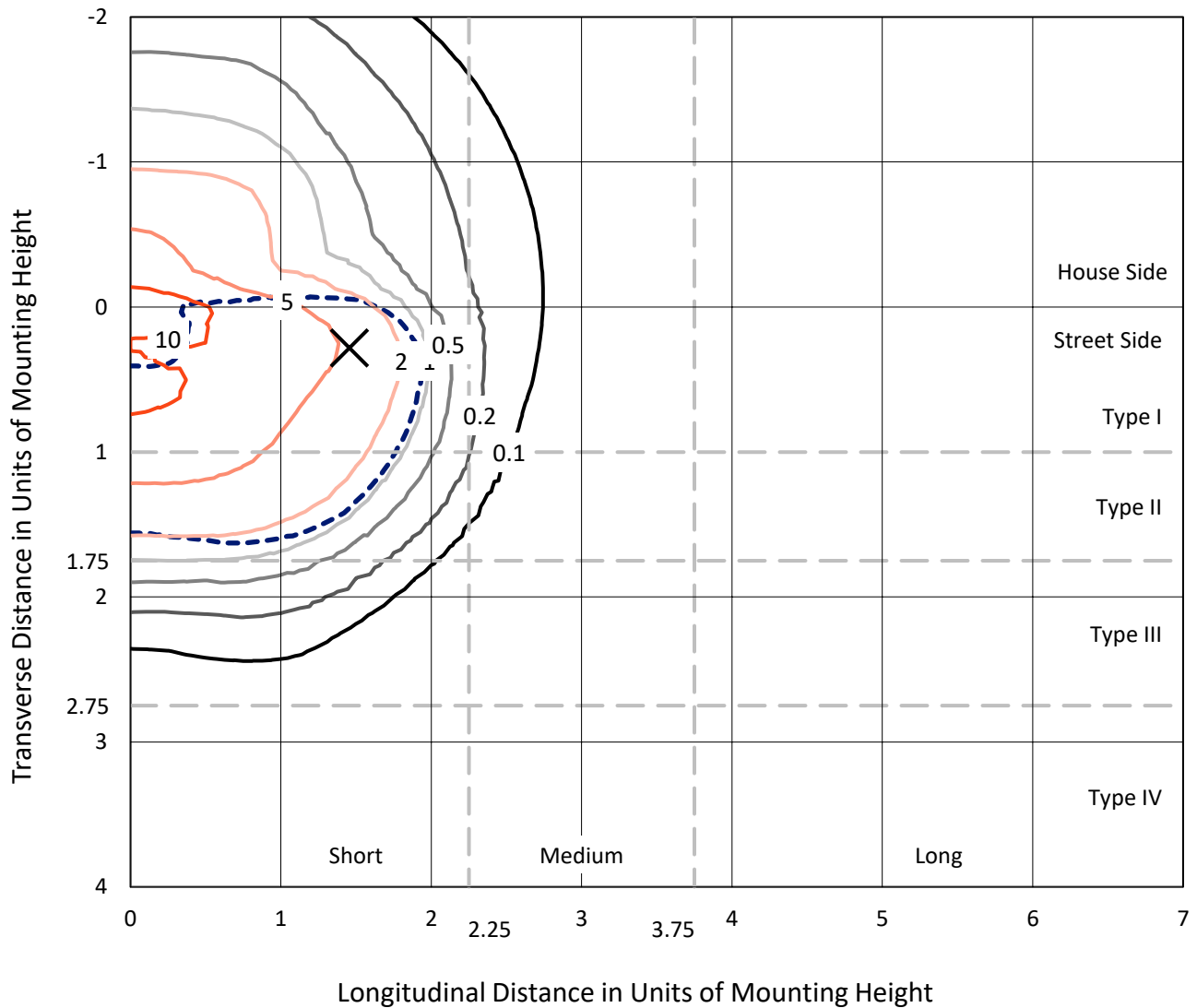
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

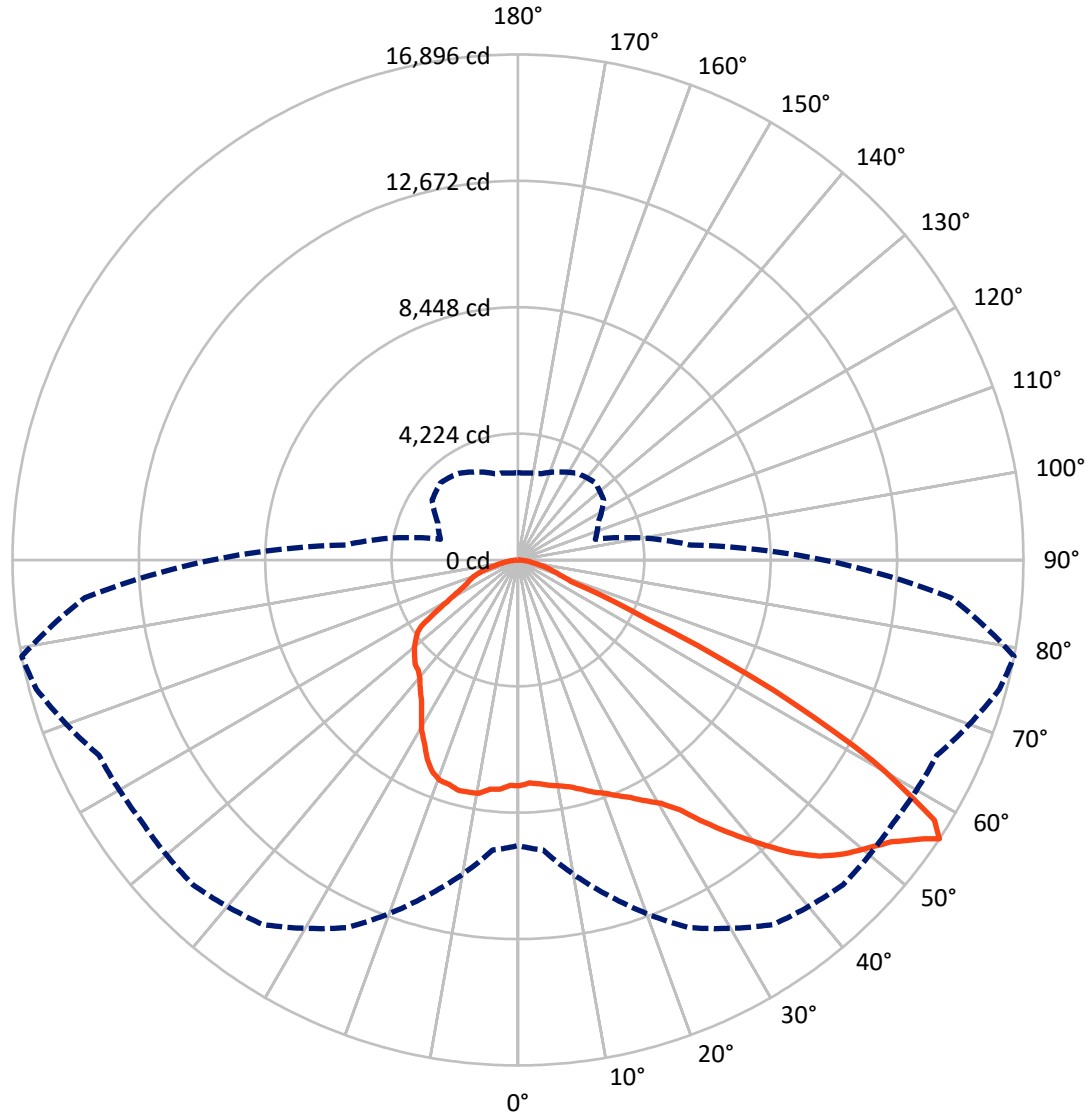
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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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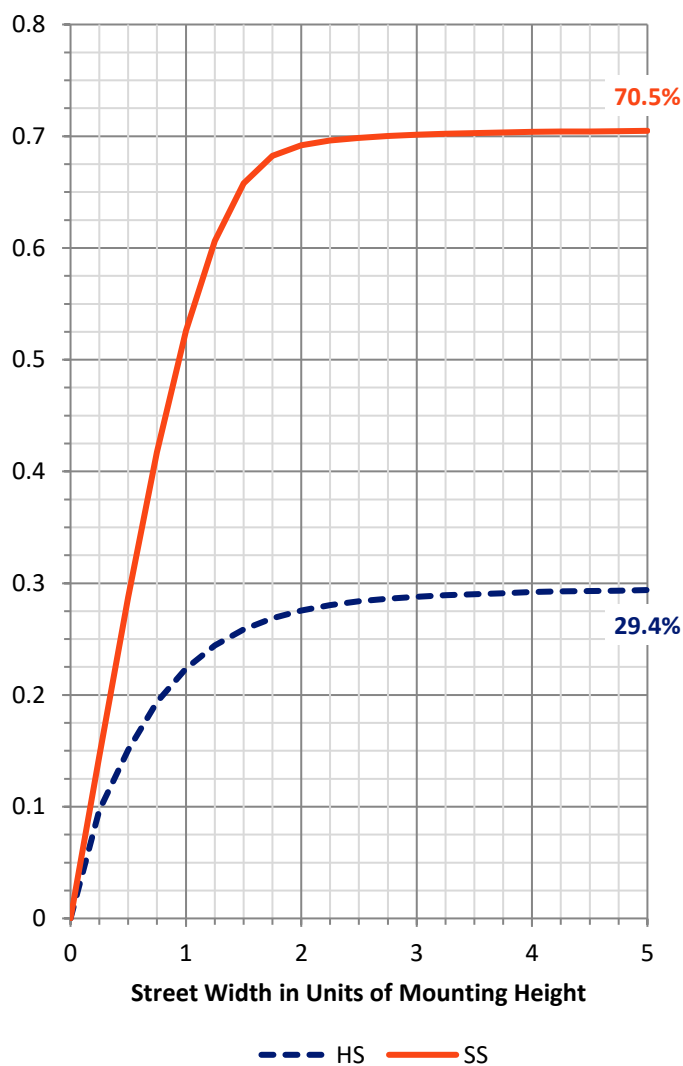
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8707.9	0.0	8707.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20778.1	0.0	20778.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	29486.0	0.0	29486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.9	2.3
10°-20°	1877.2	6.4
20°-30°	3211.5	10.9
30°-40°	4922.0	16.7
40°-50°	6652.0	22.6
50°-60°	7640.1	25.9
60°-70°	3482.6	11.8
70°-80°	858.6	2.9
80°-90°	156.1	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°	29486.0	100.0
0°-180°	29486.0	100.0

Coefficient of Utilization



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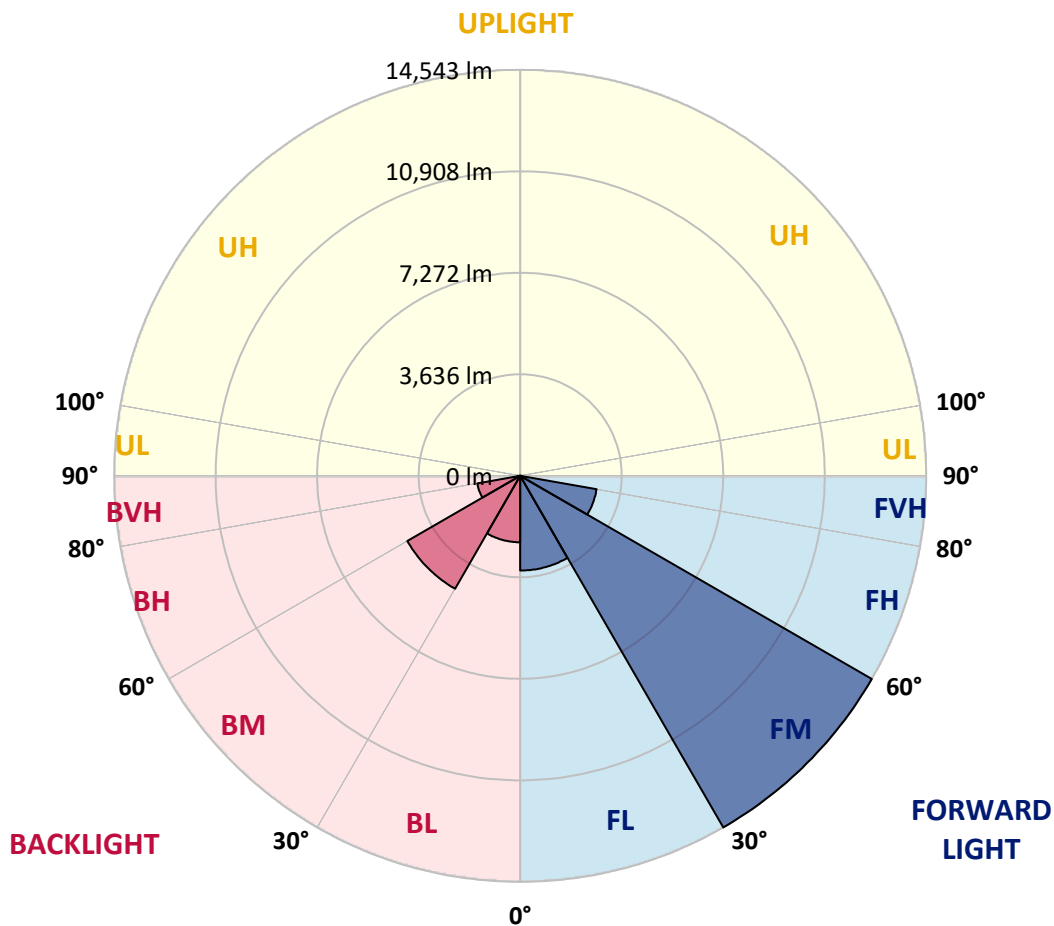
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3392.6	11.5			
FM (30°-60°)	14543.4	49.3			
FH (60°-80°)	2779.9	9.4			G2/5000
FVH (80°-90°)	62.3	0.2			G1/100
BL (0°-30°)	2382.0	8.1	B3/2500		
BM (30°-60°)	4670.8	15.8	B3/5000		
BH (60°-80°)	1561.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3
2.5°	7177.0	7158.6	7202.7	7235.8	7276.2	7327.6	7353.3	7368.0	7496.6	7463.5	7562.7
5°	7022.7	6975.0	7008.0	7033.8	7103.5	7166.0	7235.8	7346.0	7463.5	7514.9	7636.1
7.5°	6886.8	6861.1	6853.8	6872.1	6967.6	7048.4	7169.7	7331.3	7522.3	7606.7	7676.5
10°	6662.8	6626.1	6681.1	6802.4	6828.1	6997.0	7136.6	7368.0	7533.3	7680.2	7885.9
12.5°	6563.6	6526.9	6537.9	6607.7	6787.7	6949.3	7114.6	7375.3	7724.3	7783.0	8058.5
15°	6721.6	6684.8	6695.8	6677.5	6850.1	6934.6	7195.4	7522.3	7856.5	7955.7	8249.5
17.5°	7081.5	7085.2	7037.4	6997.0	6956.6	7136.6	7316.6	7610.4	7907.9	8157.7	8378.1
20°	7768.4	7647.1	7551.6	7323.9	7261.5	7338.6	7566.3	7849.2	8117.3	8323.0	8572.7
22.5°	8297.3	8308.3	8172.4	7797.7	7661.8	7694.9	7889.6	8121.0	8414.8	8561.7	8848.2
25°	9064.9	8987.8	8840.9	8543.4	8238.5	8264.2	8407.4	8616.8	8697.6	8800.5	9112.7
27.5°	9766.5	9788.5	9498.3	9219.2	8840.9	8767.4	9024.5	9061.2	8925.3	9120.0	9226.5
30°	10479.0	10460.6	10269.7	9942.8	9571.8	9586.5	9700.3	9520.4	9333.0	9439.6	9513.0
32.5°	11217.3	11007.9	11000.6	10706.7	10423.9	10288.0	10148.4	10236.6	9946.4	9968.5	9898.7
35°	11808.6	11838.0	11669.1	11459.7	11320.1	11081.4	10699.4	10857.3	10802.2	10776.5	10475.3
37.5°	12238.4	12124.5	12209.0	12139.2	12007.0	11709.5	11312.8	11463.4	11489.1	11614.0	11265.0
40°	12591.0	12543.2	12767.3	12804.0	12712.2	12069.4	11356.9	11805.0	12190.6	12462.4	12047.4
42.5°	12759.9	12862.8	13097.8	13380.7	13175.0	12488.1	11584.6	12065.7	12925.2	13355.0	12789.3
45°	12987.7	12855.4	13204.4	13722.3	13725.9	12840.7	11805.0	12418.3	13498.2	14122.6	13296.2
47.5°	12756.3	12822.4	13182.3	13839.8	14008.7	13211.7	12400.0	12917.9	14130.0	14684.6	13766.3
50°	12238.4	12370.6	13028.1	13711.2	14221.8	13604.7	13083.2	13457.8	14714.0	15136.3	13843.5
52.5°	11698.4	11771.9	12800.3	13810.4	14317.3	14111.6	13997.7	14203.4	15426.5	15646.9	13939.0
55°	10229.2	10578.2	12047.4	13766.3	14783.7	15026.2	14938.0	15239.2	16234.6	16454.9	14460.5
56°	9549.7	9733.4	11595.6	13560.6	14875.6	15360.4	15316.3	15452.2	16664.3	16895.7	14541.3
57.5°	8293.6	8308.3	9887.7	12649.7	14530.3	15459.6	15415.5	15522.0	16579.8	16421.9	13832.4
60°	5189.9	5417.6	6728.9	9729.7	12355.9	14343.0	14592.7	13736.9	13979.4	13645.1	10761.8
62.5°	2688.6	2655.6	3526.1	5689.4	8201.8	10269.7	10501.0	10460.6	10086.0	9597.5	7030.1
65°	1340.6	1348.0	1843.8	2817.2	4201.9	5377.2	6023.7	6093.5	5098.1	4690.4	3335.1
67.5°	973.3	1010.1	1325.9	1722.6	1979.7	2214.8	2714.3	2662.9	2016.5	1917.3	1777.7
70°	756.6	789.7	1076.2	1314.9	1193.7	1193.7	1300.2	1344.3	1436.1	1476.5	1524.3
72.5°	550.9	576.7	822.7	907.2	782.3	841.1	973.3	1076.2	1171.7	1186.4	1241.5
75°	378.3	400.4	539.9	499.5	470.1	580.3	712.6	808.1	877.8	914.6	947.6
77.5°	246.1	253.4	308.5	260.8	301.2	374.6	462.8	543.6	613.4	642.8	650.1
80°	110.2	121.2	132.2	165.3	209.4	268.1	330.6	396.7	440.8	451.8	473.8
82.5°	62.4	62.4	80.8	117.5	154.3	194.7	238.7	286.5	337.9	348.9	345.3
85°	33.1	33.1	47.7	69.8	95.5	113.9	110.2	113.9	121.2	139.6	135.9
87.5°	11.0	11.0	14.7	14.7	18.4	22.0	18.4	25.7	33.1	33.1	33.1
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°	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3	7544.3
2.5°	7533.3	7566.3	7522.3	7617.8	7617.8	7599.4	7507.6	7537.0	7559.0	7559.0	7577.4
5°	7676.5	7665.5	7694.9	7581.0	7511.2	7485.5	7334.9	7261.5	7199.0	7195.4	7140.3
7.5°	7757.3	7727.9	7716.9	7632.5	7323.9	7136.6	6813.4	6626.1	6585.7	6442.4	6497.5
10°	7885.9	7941.0	7885.9	7426.8	6997.0	6567.3	6251.4	5961.2	5847.4	5755.6	5700.5
12.5°	8150.3	8124.6	7805.1	7184.3	6582.0	6071.4	5601.3	5296.4	5182.6	5101.8	5094.4
15°	8374.4	8245.8	7757.3	6802.4	5935.5	5391.9	5006.3	4789.6	4738.1	4745.5	4778.5
17.5°	8451.5	8363.4	7507.6	6405.7	5454.4	4815.3	4635.3	4602.2	4650.0	4705.1	4719.8
20°	8572.7	8433.2	7404.7	5865.7	4859.4	4455.3	4444.3	4561.8	4650.0	4730.8	4741.8
22.5°	8826.2	8473.6	7070.5	5355.2	4451.7	4348.8	4455.3	4554.5	4690.4	4756.5	4697.7
25°	8899.6	8385.4	6600.3	4741.8	4194.5	4282.7	4396.6	4532.5	4628.0	4664.7	4690.4
27.5°	8962.1	8249.5	5964.9	4334.1	4113.7	4279.0	4396.6	4510.4	4561.8	4594.9	4624.3
30°	9138.4	8209.1	5414.0	4062.3	4062.3	4205.6	4356.2	4385.5	4455.3	4495.7	4547.1
32.5°	9226.5	7930.0	4848.3	3889.7	4010.9	4242.3	4253.3	4308.4	4312.1	4345.1	4290.0
35°	9457.9	7731.6	4323.1	3764.8	4032.9	4205.6	4260.7	4227.6	4047.6	3959.5	3977.8
37.5°	9626.9	7632.5	3944.8	3750.1	4036.6	4246.0	4275.3	4025.6	3838.3	3691.3	3728.1
40°	10082.3	7386.4	3658.3	3724.4	4069.7	4290.0	4209.2	3937.4	3599.5	3448.9	3423.2
42.5°	10431.3	7210.1	3478.3	3695.0	4095.4	4352.5	4176.2	3761.1	3415.9	3276.3	3313.0
45°	10835.3	7169.7	3382.8	3702.4	4139.4	4385.5	4135.8	3625.2	3257.9	3202.8	3191.8
47.5°	10978.5	6879.5	3280.0	3639.9	4128.4	4374.5	3999.9	3522.4	3199.2	3206.5	3235.9
50°	10739.8	6582.0	3202.8	3511.4	4055.0	4275.3	3786.8	3386.5	3166.1	3257.9	3309.4
52.5°	10434.9	6277.1	3044.9	3338.7	3904.4	4121.1	3687.7	3379.1	3133.1	3103.7	3114.7
55°	10526.8	6027.4	2824.5	3103.7	3662.0	3834.6	3577.5	3309.4	3052.2	2942.1	2978.8
56°	10229.2	5770.3	2681.3	2956.7	3496.7	3650.9	3522.4	3246.9	2986.1	2912.7	2912.7
57.5°	9388.1	4907.1	2494.0	2721.7	3147.7	3331.4	3415.9	3210.2	2912.7	2784.1	2787.8
60°	6923.6	3489.3	2236.8	2398.5	2607.8	2754.7	3147.7	3107.3	2729.0	2640.9	2607.8
62.5°	4268.0	2549.0	2053.2	2115.6	2222.2	2343.4	2747.4	2813.5	2534.4	2438.9	2416.8
65°	2391.1	1950.4	1913.6	1939.3	1990.8	2053.2	2280.9	2427.8	2236.8	2089.9	2082.6
67.5°	1748.3	1744.7	1774.0	1796.1	1818.1	1818.1	1873.2	1932.0	1906.3	1788.7	1777.7
70°	1553.7	1564.7	1586.7	1590.4	1597.7	1572.0	1528.0	1509.6	1539.0	1465.5	1450.8
72.5°	1281.9	1318.6	1344.3	1348.0	1307.6	1274.5	1215.8	1153.3	1131.3	1116.6	1112.9
75°	984.4	1010.1	1021.1	1017.4	1002.7	955.0	885.2	822.7	782.3	738.3	760.3
77.5°	664.8	701.5	719.9	719.9	697.9	624.4	591.3	543.6	503.2	455.4	462.8
80°	466.5	492.2	521.6	517.9	481.2	444.4	396.7	352.6	319.5	282.8	279.1
82.5°	348.9	363.6	378.3	371.0	345.3	308.5	275.5	235.1	198.3	172.6	172.6
85°	124.9	135.9	165.3	172.6	187.3	187.3	157.9	132.2	106.5	88.2	88.2
87.5°	36.7	36.7	40.4	40.4	36.7	40.4	33.1	36.7	40.4	25.7	25.7
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)