

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: P533316

Luminaire Tested: **GALN-SA8D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533316  
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-SA8D-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 45605 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

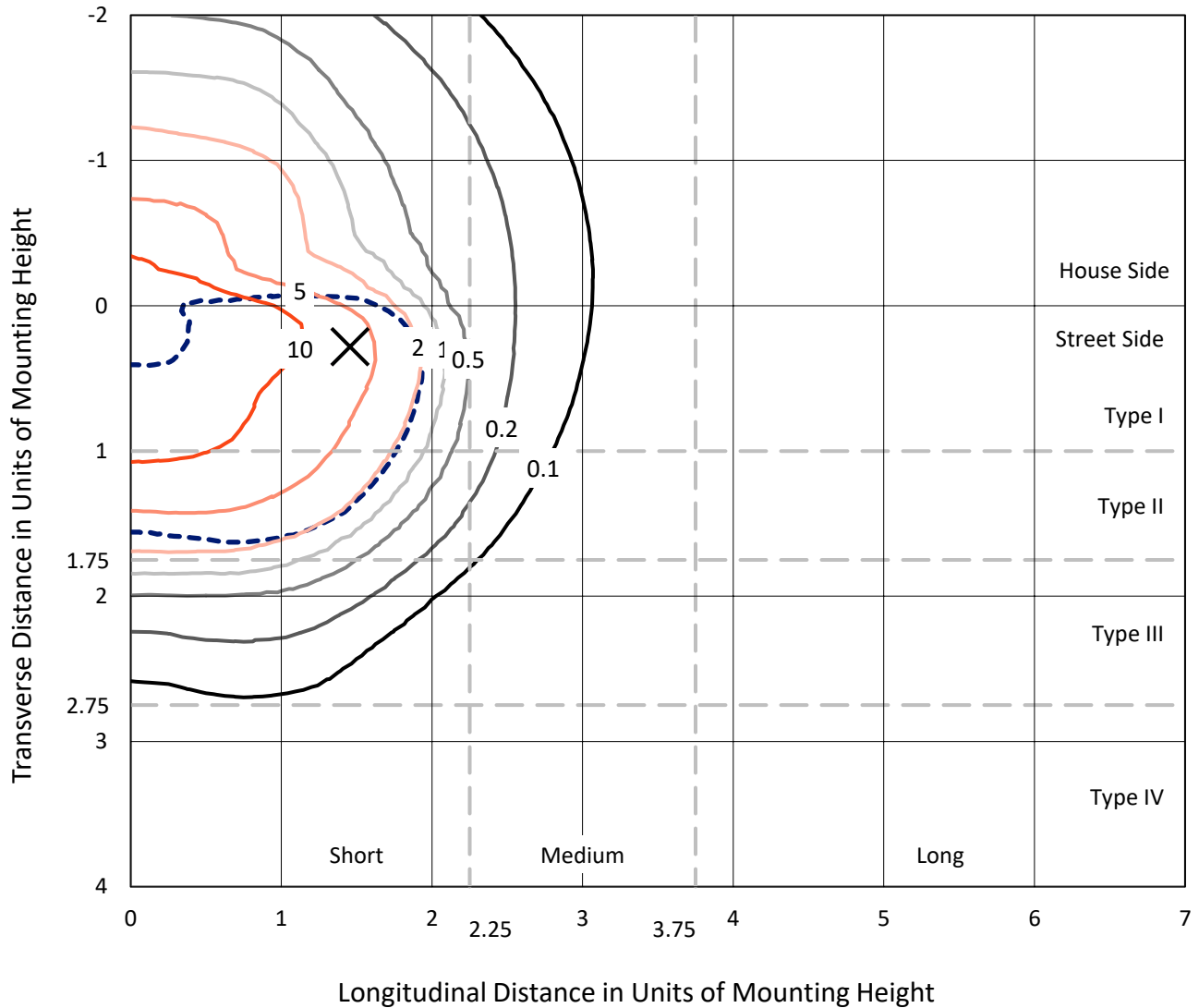
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533316  
 CATALOG NUMBER: GALN-SA8D-727-U-T3R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

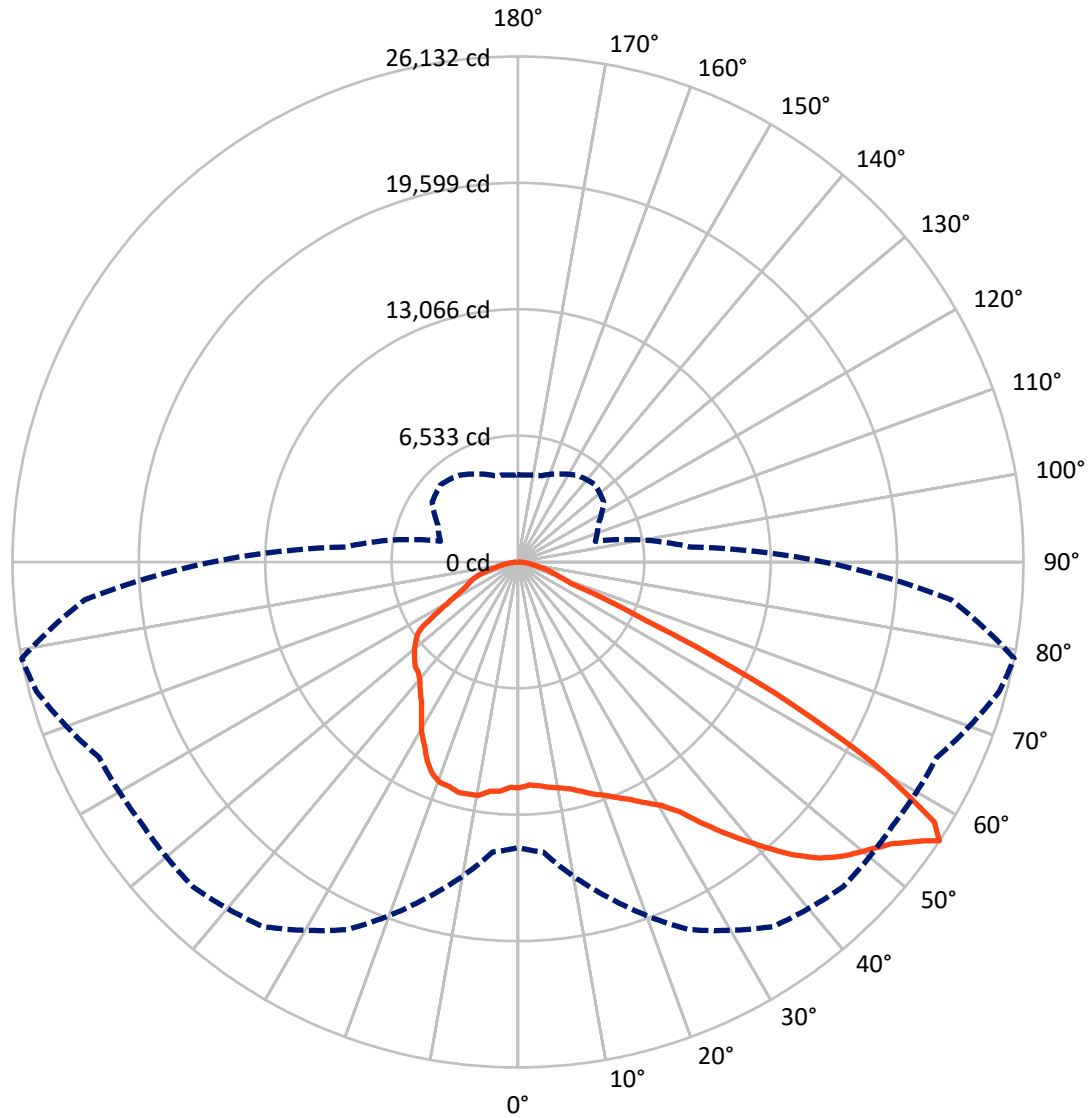
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P533316  
CATALOG NUMBER: GALN-SA8D-727-U-T3R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P533316  
 CATALOG NUMBER: GALN-SA8D-727-U-T3R-GRSWH

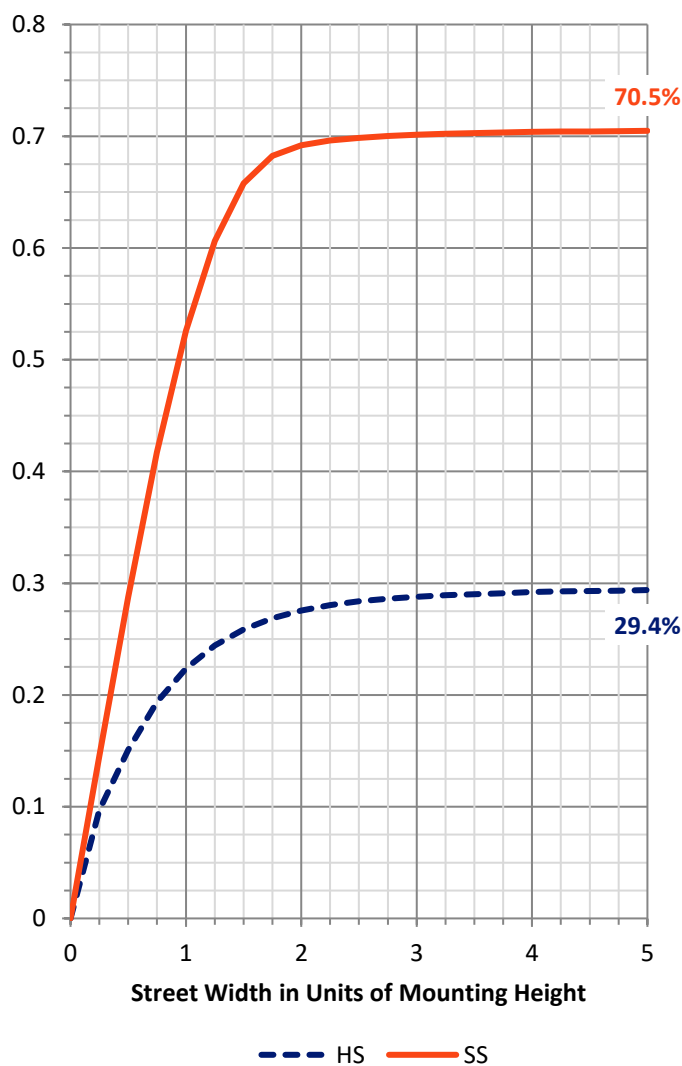
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13468.1	0.0	13468.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	32136.8	0.0	32136.8
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	45605.0	0.0	45605.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1060.9	2.3
10°-20°	2903.4	6.4
20°-30°	4967.1	10.9
30°-40°	7612.7	16.7
40°-50°	10288.5	22.6
50°-60°	11816.7	25.9
60°-70°	5386.4	11.8
70°-80°	1328.0	2.9
80°-90°	241.4	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°	45605.0	100.0
0°-180°	45605.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P533316

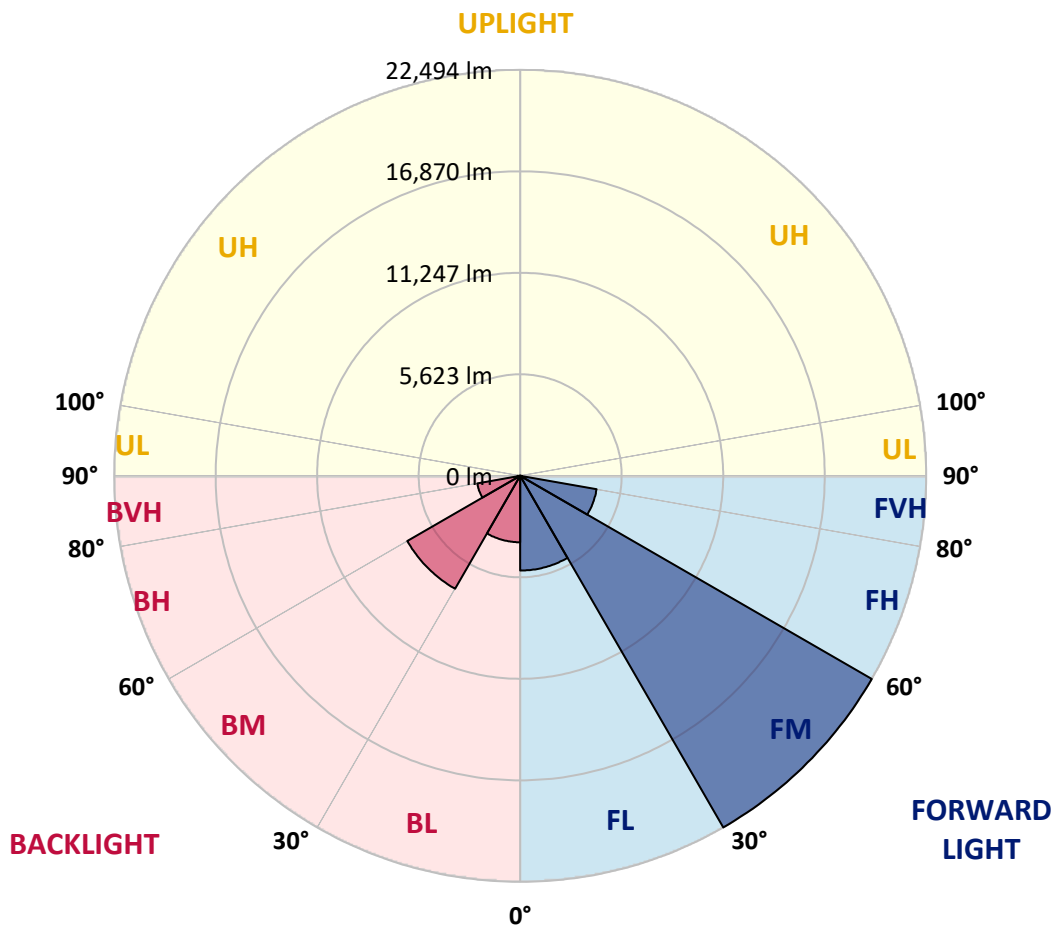
CATALOG NUMBER: GALN-SA8D-727-U-T3R-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5247.2	11.5			
FM (30°-60°)	22493.7	49.3			
FH (60°-80°)	4299.5	9.4			G2/5000
FVH (80°-90°)	96.4	0.2			G1/100
BL (0°-30°)	3684.1	8.1	B4/5000		
BM (30°-60°)	7224.1	15.8	B4/8500		
BH (60°-80°)	2414.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	145.0	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: P533316

CATALOG NUMBER: GALN-SA8D-727-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5
2.5°	11100.4	11072.0	11140.2	11191.3	11253.8	11333.3	11373.1	11395.8	11594.7	11543.5	11696.9
5°	10861.8	10788.0	10839.1	10878.9	10986.8	11083.4	11191.3	11361.7	11543.5	11623.1	11810.5
7.5°	10651.6	10611.9	10600.5	10628.9	10776.6	10901.6	11089.1	11339.0	11634.4	11765.1	11873.0
10°	10305.1	10248.3	10333.5	10521.0	10560.7	10822.1	11037.9	11395.8	11651.5	11878.7	12196.8
12.5°	10151.7	10094.9	10112.0	10219.9	10498.3	10748.2	11003.9	11407.2	11946.9	12037.8	12463.8
15°	10396.0	10339.2	10356.2	10327.8	10594.8	10725.5	11128.8	11634.4	12151.4	12304.8	12759.2
17.5°	10952.7	10958.4	10884.6	10822.1	10759.6	11037.9	11316.3	11770.8	12230.9	12617.2	12958.1
20°	12015.0	11827.6	11679.9	11327.7	11231.1	11350.4	11702.6	12140.0	12554.7	12872.9	13259.2
22.5°	12833.1	12850.1	12639.9	12060.5	11850.3	11901.4	12202.5	12560.4	13014.9	13242.1	13685.2
25°	14020.4	13901.1	13673.9	13213.7	12742.2	12782.0	13003.5	13327.3	13452.3	13611.4	14094.2
27.5°	15105.4	15139.5	14690.7	14259.0	13673.9	13560.2	13957.9	14014.7	13804.5	14105.6	14270.4
30°	16207.5	16179.1	15883.7	15378.1	14804.4	14827.1	15003.2	14724.8	14435.1	14599.8	14713.5
32.5°	17349.4	17025.6	17014.2	16559.7	16122.3	15912.1	15696.3	15832.6	15383.8	15417.9	15310.0
35°	18264.0	18309.5	18048.1	17724.3	17508.5	17139.2	16548.4	16792.7	16707.4	16667.7	16201.9
37.5°	18928.7	18752.6	18883.2	18775.3	18570.8	18110.6	17497.1	17730.0	17769.8	17962.9	17423.2
40°	19474.0	19400.2	19746.7	19803.5	19661.5	18667.3	17565.3	18258.3	18854.8	19275.2	18633.3
42.5°	19735.4	19894.4	20258.0	20695.4	20377.3	19315.0	17917.5	18661.7	19991.0	20655.7	19780.8
45°	20087.6	19883.1	20422.7	21223.7	21229.4	19860.3	18258.3	19207.0	20877.2	21843.0	20564.8
47.5°	19729.7	19831.9	20388.7	21405.5	21666.9	20434.1	19178.6	19979.6	21854.3	22712.1	21291.9
50°	18928.7	19133.2	20150.1	21206.7	21996.3	21042.0	20235.3	20814.7	22757.6	23410.9	21411.2
52.5°	18093.6	18207.2	19797.8	21360.1	22144.0	21825.9	21649.8	21967.9	23859.7	24200.5	21558.9
55°	15821.2	16360.9	18633.3	21291.9	22865.5	23240.5	23104.1	23569.9	25109.5	25450.3	22365.6
56°	14770.3	15054.3	17934.5	20973.8	23007.5	23757.4	23689.2	23899.4	25774.1	26132.0	22490.6
57.5°	12827.4	12850.1	15292.9	19564.9	22473.5	23910.8	23842.6	24007.4	25643.5	25399.2	21394.2
60°	8027.1	8379.3	10407.4	15048.6	19110.5	22183.8	22570.1	21246.5	21621.4	21104.4	16645.0
62.5°	4158.4	4107.3	5453.6	8799.7	12685.4	15883.7	16241.6	16179.1	15599.7	14844.1	10873.2
65°	2073.5	2084.9	2851.8	4357.2	6498.9	8316.8	9316.6	9424.6	7885.1	7254.5	5158.2
67.5°	1505.4	1562.2	2050.8	2664.3	3062.0	3425.6	4198.2	4118.6	3118.8	2965.4	2749.5
70°	1170.3	1221.4	1664.5	2033.8	1846.3	1846.3	2011.0	2079.2	2221.2	2283.7	2357.6
72.5°	852.1	891.9	1272.5	1403.2	1210.0	1300.9	1505.4	1664.5	1812.2	1834.9	1920.1
75°	585.1	619.2	835.1	772.6	727.2	897.6	1102.1	1249.8	1357.7	1414.5	1465.7
77.5°	380.6	392.0	477.2	403.3	465.8	579.4	715.8	840.8	948.7	994.2	1005.5
80°	170.4	187.5	204.5	255.6	323.8	414.7	511.3	613.5	681.7	698.7	732.8
82.5°	96.6	96.6	125.0	181.8	238.6	301.1	369.3	443.1	522.6	539.7	534.0
85°	51.1	51.1	73.9	107.9	147.7	176.1	170.4	176.1	187.5	215.9	210.2
87.5°	17.0	17.0	22.7	22.7	28.4	34.1	28.4	39.8	51.1	51.1	51.1
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: P533316

CATALOG NUMBER: GALN-SA8D-727-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5	11668.5
2.5°	11651.5	11702.6	11634.4	11782.1	11782.1	11753.7	11611.7	11657.2	11691.2	11691.2	11719.6
5°	11873.0	11856.0	11901.4	11725.3	11617.4	11577.6	11344.7	11231.1	11134.5	11128.8	11043.6
7.5°	11998.0	11952.6	11935.5	11804.9	11327.7	11037.9	10538.0	10248.3	10185.8	9964.3	10049.5
10°	12196.8	12282.0	12196.8	11486.7	10822.1	10157.4	9668.8	9220.1	9044.0	8901.9	8816.7
12.5°	12605.9	12566.1	12071.9	11111.8	10180.1	9390.5	8663.3	8191.8	8015.7	7890.7	7879.4
15°	12952.4	12753.6	11998.0	10521.0	9180.3	8339.5	7743.0	7407.9	7328.3	7339.7	7390.8
17.5°	13071.7	12935.3	11611.7	9907.4	8436.1	7447.6	7169.3	7118.1	7192.0	7277.2	7299.9
20°	13259.2	13043.3	11452.6	9072.4	7515.8	6890.9	6873.9	7055.6	7192.0	7317.0	7334.0
22.5°	13651.1	13105.8	10935.7	8282.7	6885.2	6726.2	6890.9	7044.3	7254.5	7356.7	7265.8
25°	13764.8	12969.4	10208.5	7334.0	6487.6	6623.9	6800.0	7010.2	7157.9	7214.7	7254.5
27.5°	13861.3	12759.2	9225.7	6703.4	6362.6	6618.2	6800.0	6976.1	7055.6	7106.8	7152.2
30°	14134.0	12696.8	8373.6	6283.0	6283.0	6504.6	6737.5	6783.0	6890.9	6953.4	7032.9
32.5°	14270.4	12265.0	7498.8	6016.0	6203.5	6561.4	6578.5	6663.7	6669.3	6720.5	6635.3
35°	14628.2	11958.2	6686.4	5822.9	6237.6	6504.6	6589.8	6538.7	6260.3	6124.0	6152.4
37.5°	14889.6	11804.9	6101.3	5800.2	6243.3	6567.1	6612.5	6226.2	5936.5	5709.3	5766.1
40°	15594.0	11424.2	5658.1	5760.4	6294.4	6635.3	6510.3	6089.9	5567.3	5334.3	5294.6
42.5°	16133.7	11151.6	5379.8	5715.0	6334.2	6731.8	6459.2	5817.2	5283.2	5067.3	5124.1
45°	16758.6	11089.1	5232.1	5726.3	6402.3	6783.0	6396.7	5607.0	5038.9	4953.7	4936.7
47.5°	16980.1	10640.3	5073.0	5629.7	6385.3	6765.9	6186.5	5448.0	4948.0	4959.4	5004.8
50°	16610.9	10180.1	4953.7	5430.9	6271.7	6612.5	5857.0	5237.8	4896.9	5038.9	5118.5
52.5°	16139.4	9708.6	4709.4	5163.9	6038.8	6373.9	5703.6	5226.4	4845.8	4800.3	4817.4
55°	16281.4	9322.3	4368.6	4800.3	5663.8	5930.8	5533.2	5118.5	4720.8	4550.4	4607.2
56°	15821.2	8924.7	4147.0	4573.1	5408.2	5646.8	5448.0	5021.9	4618.5	4504.9	4504.9
57.5°	14520.3	7589.6	3857.3	4209.5	4868.5	5152.6	5283.2	4965.1	4504.9	4306.1	4311.8
60°	10708.4	5396.8	3459.7	3709.6	4033.4	4260.7	4868.5	4806.0	4220.9	4084.5	4033.4
62.5°	6601.2	3942.5	3175.6	3272.2	3436.9	3624.4	4249.3	4351.5	3919.8	3772.1	3738.0
65°	3698.2	3016.5	2959.7	2999.5	3079.0	3175.6	3527.8	3755.1	3459.7	3232.4	3221.1
67.5°	2704.1	2698.4	2743.9	2777.9	2812.0	2812.0	2897.2	2988.1	2948.4	2766.6	2749.5
70°	2403.0	2420.1	2454.1	2459.8	2471.2	2431.4	2363.2	2334.8	2380.3	2266.7	2243.9
72.5°	1982.6	2039.4	2079.2	2084.9	2022.4	1971.3	1880.4	1783.8	1749.7	1727.0	1721.3
75°	1522.5	1562.2	1579.3	1573.6	1550.9	1477.0	1369.1	1272.5	1210.0	1141.9	1175.9
77.5°	1028.2	1085.0	1113.5	1113.5	1079.4	965.7	914.6	840.8	778.3	704.4	715.8
80°	721.5	761.2	806.7	801.0	744.2	687.4	613.5	545.4	494.2	437.4	431.7
82.5°	539.7	562.4	585.1	573.8	534.0	477.2	426.1	363.6	306.8	267.0	267.0
85°	193.1	210.2	255.6	267.0	289.7	289.7	244.3	204.5	164.7	136.3	136.3
87.5°	56.8	56.8	62.5	62.5	56.8	62.5	51.1	56.8	62.5	39.8	39.8
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)