

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: P458328

Luminaire Tested: **GALN-SA9D-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 58985 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

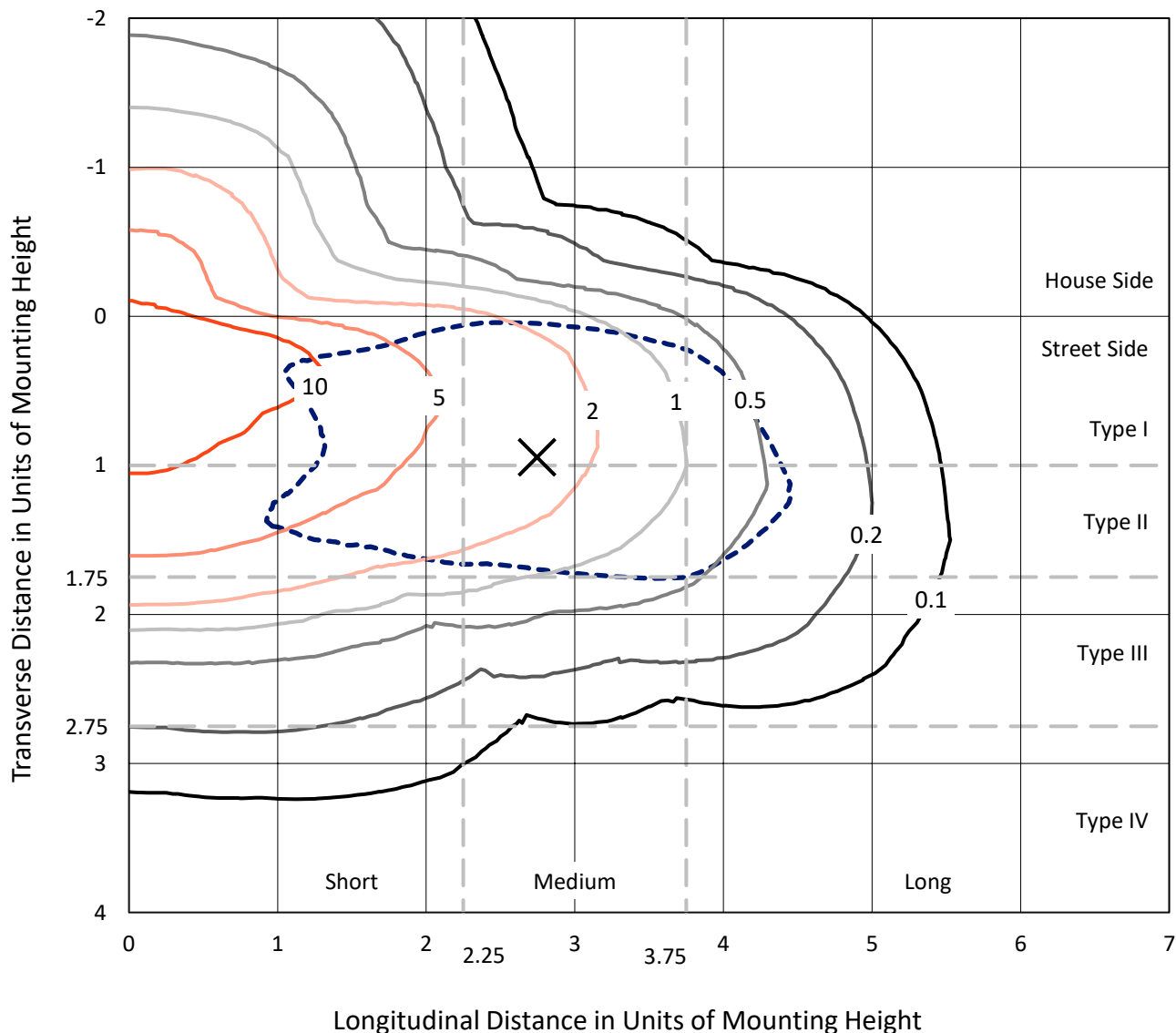
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458328
 CATALOG NUMBER: GALN-SA9D-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

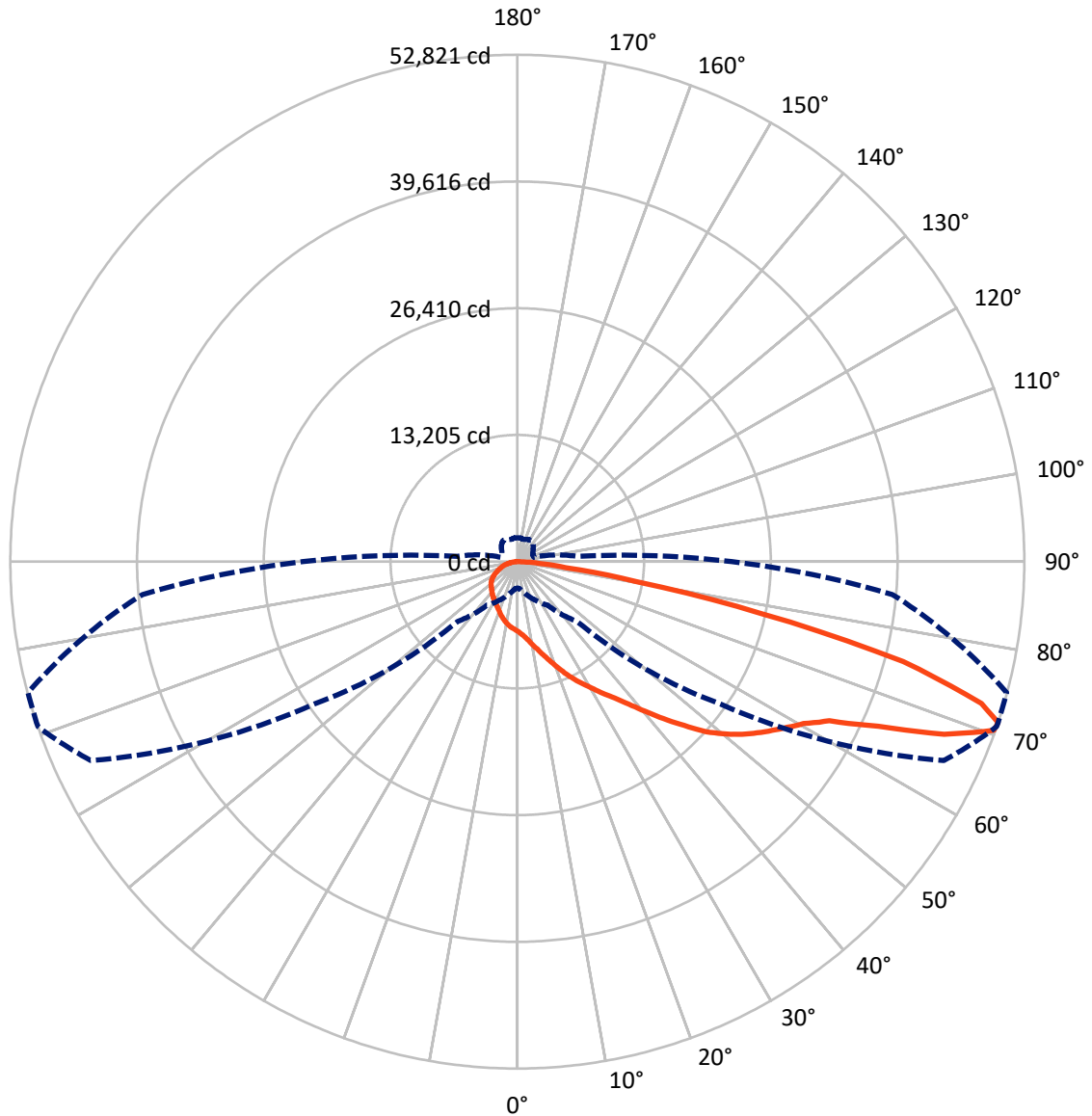
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P458328
CATALOG NUMBER: GALN-SA9D-727-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458328

CATALOG NUMBER: GALN-SA9D-727-U-T2

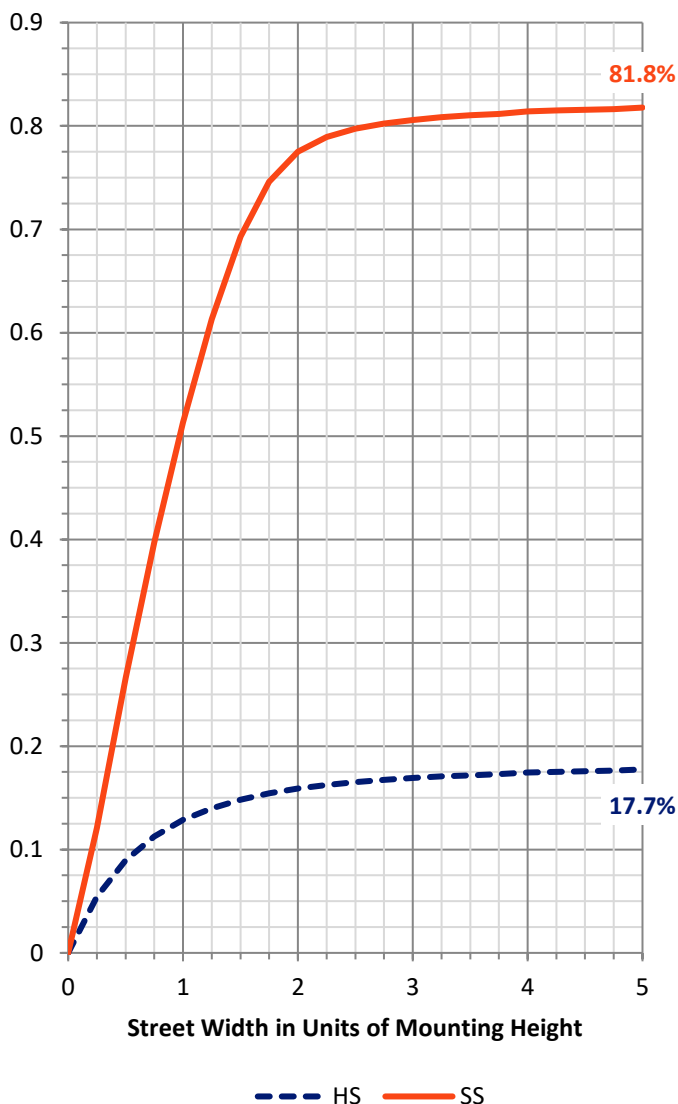
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10608.3	0.0	10608.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	48376.7	0.0	48376.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	58985.0	0.0	58985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.9	1.2
10°-20°	2361.5	4.0
20°-30°	4127.0	7.0
30°-40°	6138.4	10.4
40°-50°	9044.1	15.3
50°-60°	12661.9	21.5
60°-70°	14161.9	24.0
70°-80°	8650.6	14.7
80°-90°	1112.8	1.9
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°	58985.0	100.0
0°-180°	58985.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458328

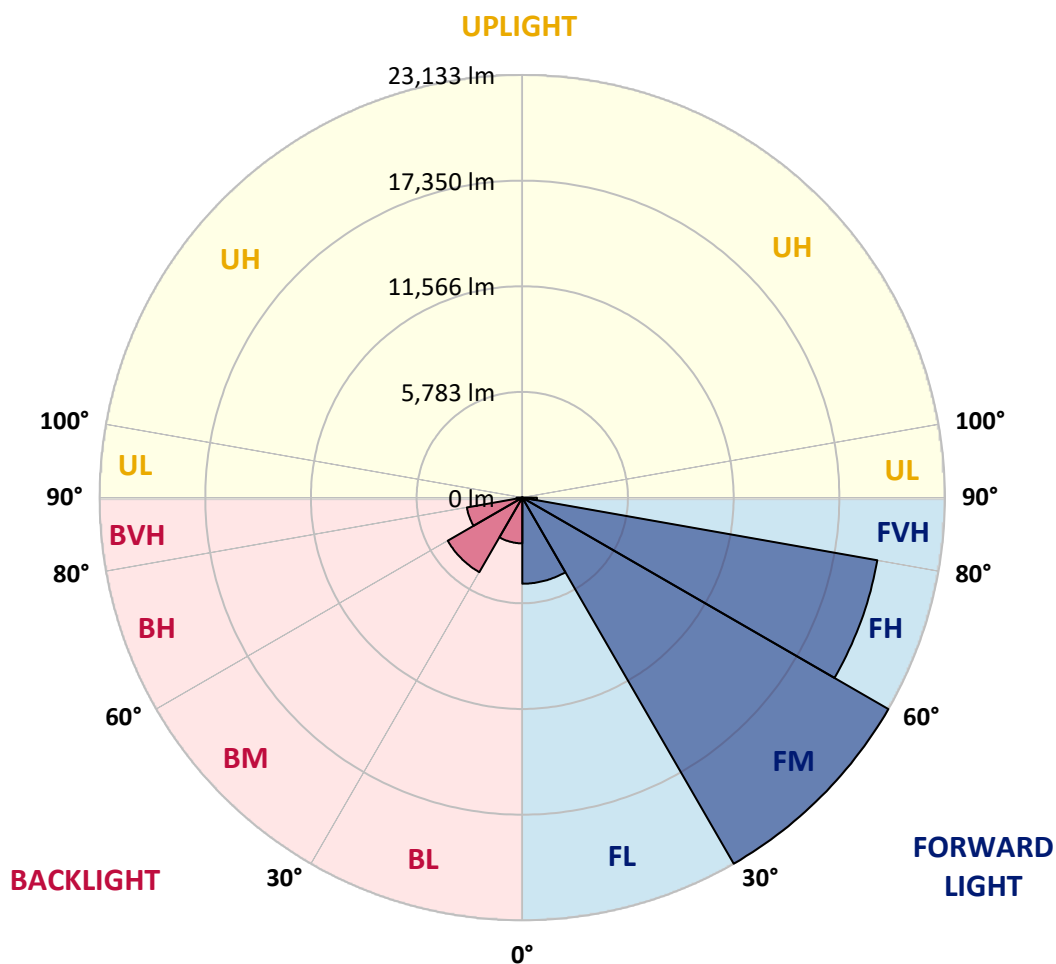
CATALOG NUMBER: GALN-SA9D-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4712.9	8.0			
FM	(30°-60°)	23132.8	39.2			
FH	(60°-80°)	19730.3	33.4			G5
FVH	(80°-90°)	800.7	1.4			G5
BL	(0°-30°)	2502.5	4.2	B4/5000		
BM	(30°-60°)	4711.6	8.0	B3/5000		
BH	(60°-80°)	3082.2	5.2	B4/5000		G4/5000
BVH	(80°-90°)	312.1	0.5			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 II Medium





REPORT NUMBER: P458328

CATALOG NUMBER: GALN-SA9D-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2
2.5°	8036.8	7997.9	8001.1	7946.0	7874.7	7796.9	7686.6	7589.4	7511.6	7466.2	7333.3
5°	8905.6	8866.7	8818.1	8698.1	8646.2	8455.0	8211.8	7991.4	7822.8	7728.8	7462.9
7.5°	9609.1	9599.4	9586.4	9518.3	9385.4	9119.6	8912.1	8529.5	8279.9	8101.6	7647.7
10°	10043.5	10059.7	10069.5	10082.4	10027.3	9887.9	9602.6	9119.6	8801.9	8574.9	7887.6
12.5°	10264.0	10280.2	10335.3	10455.2	10529.8	10513.6	10280.2	9806.9	9369.2	9070.9	8143.7
15°	10400.1	10426.1	10523.3	10682.2	10931.8	11090.7	10977.2	10539.5	10059.7	9706.4	8448.5
17.5°	10549.3	10578.4	10685.4	10912.4	11239.8	11583.4	11706.6	11330.6	10808.6	10387.2	8788.9
20°	10633.6	10672.5	10824.8	11123.1	11505.6	12004.9	12413.4	12215.6	11645.0	11178.2	9181.2
22.5°	10769.7	10802.1	10931.8	11249.5	11706.6	12332.3	13120.1	13078.0	12575.5	11972.5	9612.3
25°	11139.3	11191.2	11256.0	11447.3	11888.2	12666.2	13706.9	13998.7	13476.7	12802.4	10007.9
27.5°	11836.3	11878.5	11875.2	11901.2	12150.8	12954.8	14215.9	14909.7	14371.5	13642.1	10390.4
30°	12630.6	12646.8	12659.8	12601.4	12656.5	13249.8	14682.7	15810.9	15272.8	14504.4	10724.3
32.5°	13596.7	13629.1	13518.9	13369.7	13324.4	13687.5	15068.5	16712.2	16339.4	15379.7	11055.0
35°	14737.8	14822.1	14598.4	14335.8	14151.1	14316.4	15587.2	17632.9	17431.9	16498.2	11492.7
37.5°	16041.1	16144.8	15937.4	15421.9	15159.3	15204.7	16264.8	18770.8	18813.0	17772.3	12144.3
40°	17107.7	17243.9	17250.3	16520.9	16122.2	16174.0	17123.9	19996.3	20479.3	19347.9	12912.6
42.5°	17811.2	17944.1	18083.5	17655.6	17237.4	17532.4	18125.7	21325.5	22353.2	21260.6	13985.7
45°	18582.8	18702.7	18780.5	18586.0	18352.6	19117.7	19334.9	22738.9	24350.2	23397.1	15159.3
47.5°	19477.6	19610.5	19685.0	19500.3	19412.7	20508.5	20638.2	24058.4	26483.4	25471.9	16456.1
50°	20670.6	20771.1	20732.2	20615.5	20596.0	21575.1	21889.6	25293.6	28243.8	27705.6	17801.5
52.5°	22155.4	22275.3	22317.5	22152.2	22077.6	22336.9	22897.8	26418.5	29845.3	29624.8	19237.7
55°	23053.4	23244.7	23886.6	24145.9	24324.3	23322.5	23983.8	27660.2	31281.4	31647.8	20780.8
57.5°	21902.5	22148.9	23585.1	24881.9	26557.9	25786.4	25523.8	28957.0	32717.6	33609.2	22628.7
60°	19095.0	19150.1	21001.3	23390.6	26762.2	28953.7	28736.5	31018.9	34273.8	35586.7	25063.4
62.5°	13246.6	13363.3	15551.6	19364.1	24240.0	30094.9	34202.4	34578.5	36504.2	38546.6	28632.8
65°	6830.8	6678.4	8672.2	12170.2	18274.8	27384.6	38630.9	41124.0	41341.2	43176.1	33657.8
67.5°	4204.8	4272.9	5206.6	7106.3	10805.4	19902.3	38167.3	49121.8	47977.4	48859.2	38322.9
70°	3157.6	3241.9	3883.8	4862.9	6587.6	11379.2	30694.7	51060.5	52658.8	52431.8	39742.9
71°	2745.9	2833.5	3501.3	4425.2	5534.0	8782.4	25860.9	49031.1	52820.9	52782.0	39208.0
72.5°	2340.7	2395.8	2917.7	3747.7	4665.1	6156.4	19428.9	43973.6	50567.7	51861.3	37298.5
75°	1838.2	1880.3	2113.7	2859.4	3673.1	3780.1	10426.1	32967.3	41532.5	43996.3	31051.3
77.5°	1497.8	1527.0	1646.9	2123.5	2833.5	2677.8	5469.1	21458.4	26019.8	28499.9	18291.0
80°	1189.8	1222.2	1293.5	1439.4	2123.5	1909.5	2609.8	10873.5	12569.0	12543.1	7300.8
82.5°	924.0	933.7	1018.0	1056.9	1452.4	1355.1	1413.5	4603.6	5099.6	5268.1	2635.7
85°	583.5	612.7	901.3	810.5	868.8	794.3	697.0	1828.5	2253.1	2220.7	1053.6
87.5°	178.3	188.0	304.7	343.6	385.8	346.9	256.1	538.2	658.1	713.2	262.6
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: P458328

CATALOG NUMBER: GALN-SA9D-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2	7239.2
2.5°	7281.4	7245.7	7119.3	7015.6	6918.3	6811.3	6720.5	6694.6	6671.9	6662.2	6658.9
5°	7349.5	7242.5	6992.9	6788.6	6626.5	6477.4	6383.4	6341.2	6299.1	6299.1	6312.1
7.5°	7446.7	7252.2	6866.4	6561.7	6357.4	6218.0	6150.0	6143.5	6153.2	6162.9	6166.2
10°	7553.7	7245.7	6681.6	6302.3	6120.8	6055.9	6059.2	6114.3	6166.2	6205.1	6211.6
12.5°	7657.5	7206.8	6464.4	6059.2	5942.5	5955.4	6046.2	6169.4	6269.9	6325.0	6328.3
15°	7774.2	7145.2	6201.8	5829.0	5790.1	5890.6	6059.2	6247.2	6399.6	6490.4	6500.1
17.5°	7871.4	7041.5	5926.3	5605.3	5653.9	5838.7	6072.1	6315.3	6500.1	6613.6	6633.0
20°	7981.6	6908.6	5641.0	5391.3	5530.7	5780.4	6046.2	6308.8	6500.1	6610.3	6636.2
22.5°	8069.2	6720.5	5368.6	5216.3	5420.5	5709.1	5958.7	6169.4	6325.0	6383.4	6422.3
25°	8104.8	6483.9	5112.5	5073.6	5333.0	5592.3	5760.9	5880.9	5929.5	5923.0	5939.2
27.5°	8085.4	6211.6	4892.1	4960.2	5222.8	5410.8	5495.1	5485.4	5397.8	5316.8	5355.7
30°	8004.3	5887.4	4707.3	4843.5	5080.1	5183.9	5170.9	5044.5	4879.1	4726.7	4736.5
32.5°	7858.5	5537.2	4535.5	4710.5	4879.1	4924.5	4837.0	4671.6	4435.0	4237.2	4208.0
35°	7735.3	5203.3	4383.1	4558.2	4678.1	4655.4	4571.1	4357.2	4143.2	3968.1	3939.0
37.5°	7715.8	4918.0	4237.2	4386.3	4454.4	4422.0	4318.3	4136.7	4058.9	3926.0	3909.8
40°	7819.6	4717.0	4088.1	4204.8	4237.2	4211.3	4097.8	3994.1	4065.4	4033.0	4033.0
42.5°	8101.6	4610.0	3955.2	4023.2	4049.2	4068.6	3987.6	3900.1	3987.6	3838.5	3789.8
45°	8549.0	4613.3	3835.2	3844.9	3922.7	3990.8	3935.7	3806.0	3760.6	3462.4	3404.0
47.5°	9207.1	4723.5	3738.0	3676.4	3815.8	3929.2	3851.4	3663.4	3462.4	3264.6	3229.0
50°	9975.4	4921.3	3650.4	3501.3	3673.1	3851.4	3793.1	3572.6	3365.1	3245.2	3222.5
52.5°	10828.1	5170.9	3543.4	3306.8	3498.0	3815.8	3806.0	3559.6	3274.4	3193.3	3173.9
55°	11881.7	5417.3	3410.5	3079.8	3342.4	3786.6	3770.4	3452.7	3254.9	3196.5	3190.1
57.5°	13107.2	5773.9	3219.2	2849.7	3164.1	3666.6	3631.0	3387.8	3190.1	3147.9	3144.7
60°	15081.5	6328.3	2946.9	2638.9	2982.6	3455.9	3501.3	3277.6	3086.3	3076.6	3073.4
62.5°	17678.3	7106.3	2664.9	2421.7	2771.9	3183.6	3313.3	3128.5	2976.1	3024.7	3031.2
65°	21263.9	7761.2	2373.1	2236.9	2538.4	2921.0	3135.0	2989.1	2852.9	2946.9	2946.9
67.5°	23601.3	7774.2	2107.3	2045.7	2301.8	2700.5	2946.9	2823.7	2694.0	2852.9	2859.4
70°	23115.0	6811.3	1886.8	1844.7	2071.6	2463.9	2739.4	2642.2	2493.0	2635.7	2583.8
71°	22330.5	6276.4	1799.3	1766.9	1980.8	2350.4	2642.2	2561.1	2412.0	2506.0	2476.8
72.5°	21079.1	5449.7	1656.6	1663.1	1844.7	2207.8	2506.0	2421.7	2272.6	2324.5	2314.7
75°	17817.7	4759.2	1416.7	1445.9	1585.3	1964.6	2233.7	2168.9	2016.5	2016.5	2006.8
77.5°	11139.3	3326.2	1176.8	1193.0	1345.4	1682.6	1919.2	1864.1	1718.2	1669.6	1656.6
80°	4156.2	1718.2	920.7	940.2	1034.2	1326.0	1588.5	1536.7	1387.5	1332.4	1280.6
82.5°	1572.3	862.4	677.6	661.4	761.9	1011.5	1244.9	1183.3	1066.6	933.7	894.8
85°	593.3	427.9	415.0	402.0	447.4	599.8	771.6	758.6	635.4	541.4	531.7
87.5°	155.6	139.4	162.1	120.0	126.4	113.5	116.7	48.6	22.7	9.7	6.5
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)