

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: P530272

Luminaire Tested: **GALN-SA5C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25104 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

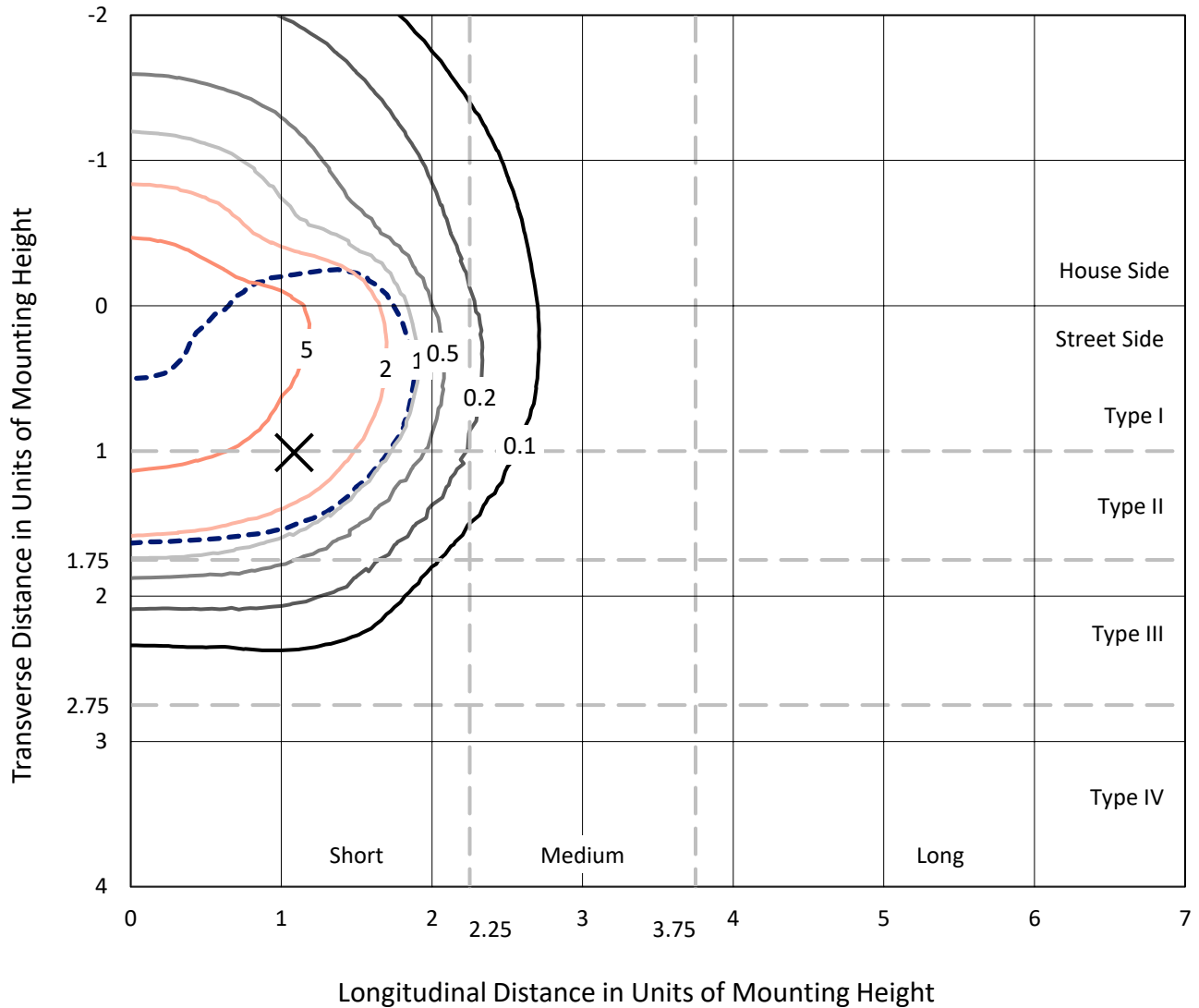
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530272
 CATALOG NUMBER: GALN-SA5C-727-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

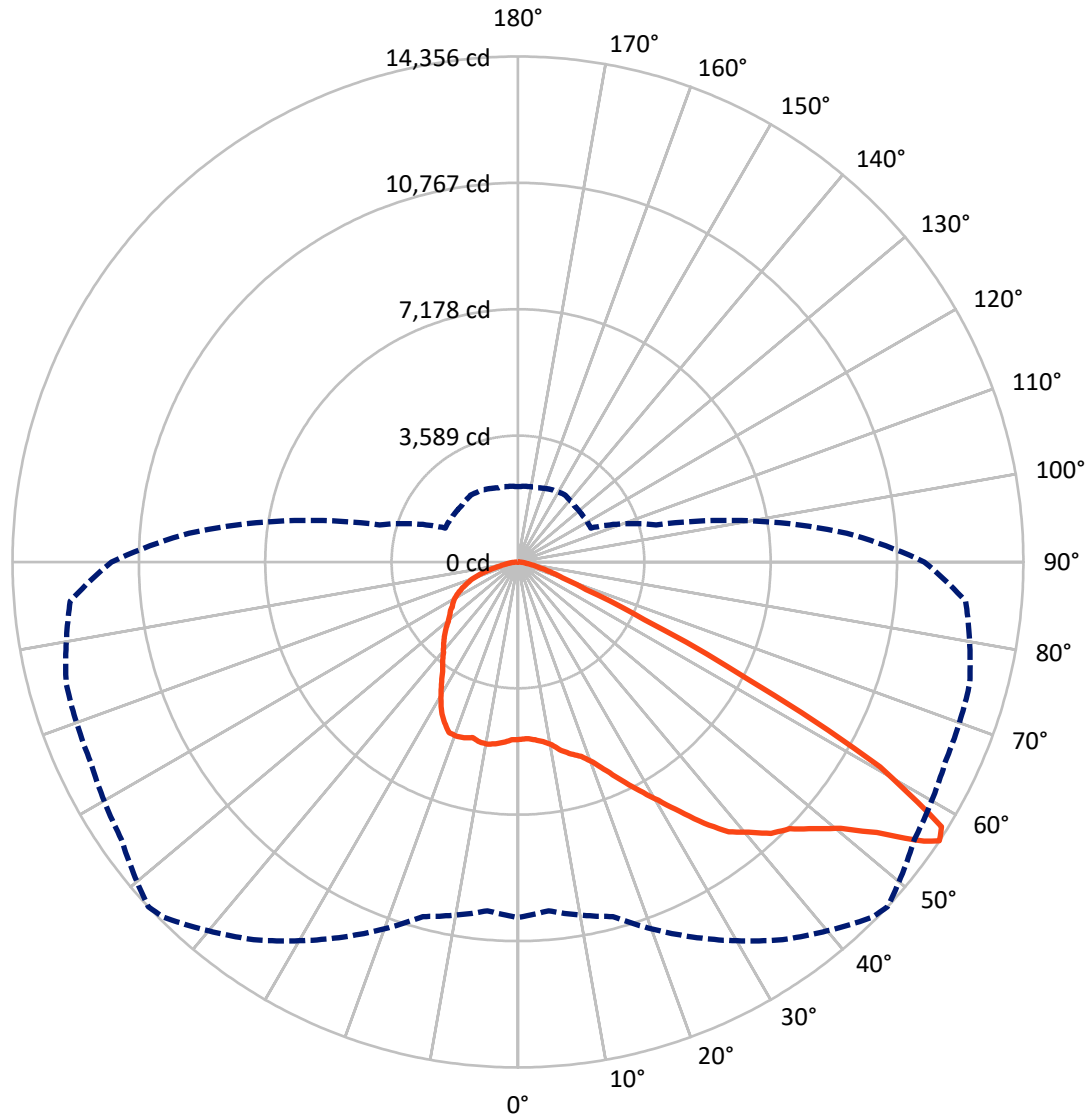
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

REPORT NUMBER: P530272
CATALOG NUMBER: GALN-SA5C-727-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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 CATALOG NUMBER: GALN-SA5C-727-U-T3-GRSWH

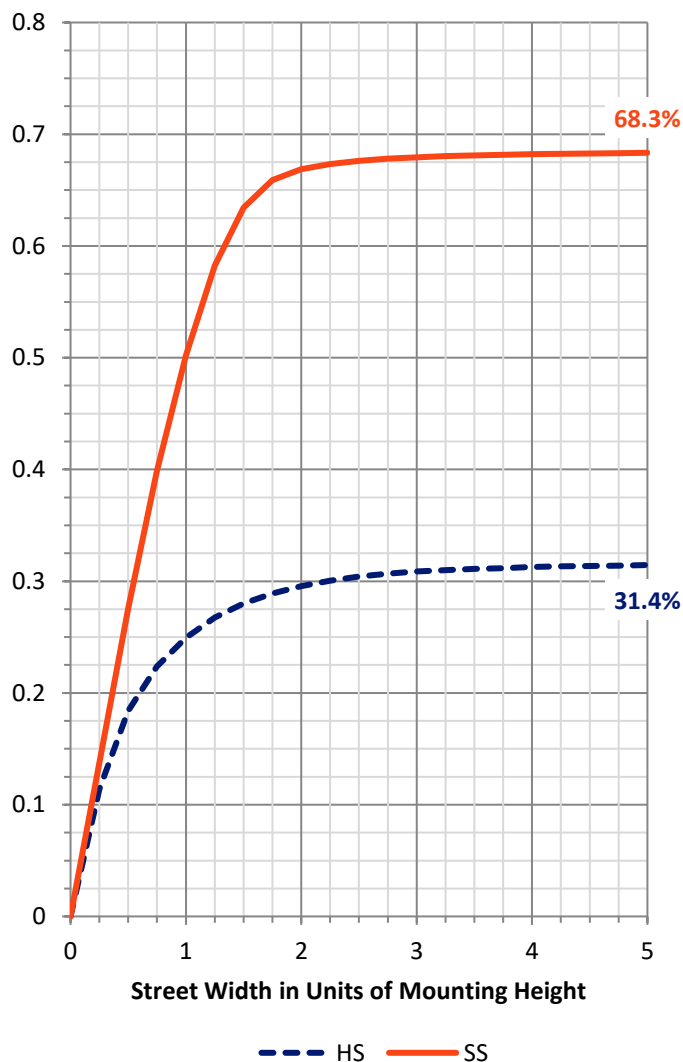
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7955.2	0.0	7955.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	17148.8	0.0	17148.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	25104.0	0.0	25104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.3	2.0
10°-20°	1549.9	6.2
20°-30°	2739.9	10.9
30°-40°	4115.2	16.4
40°-50°	5647.7	22.5
50°-60°	6728.5	26.8
60°-70°	2879.4	11.5
70°-80°	814.9	3.2
80°-90°	137.1	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°	25104.0	100.0
0°-180°	25104.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530272

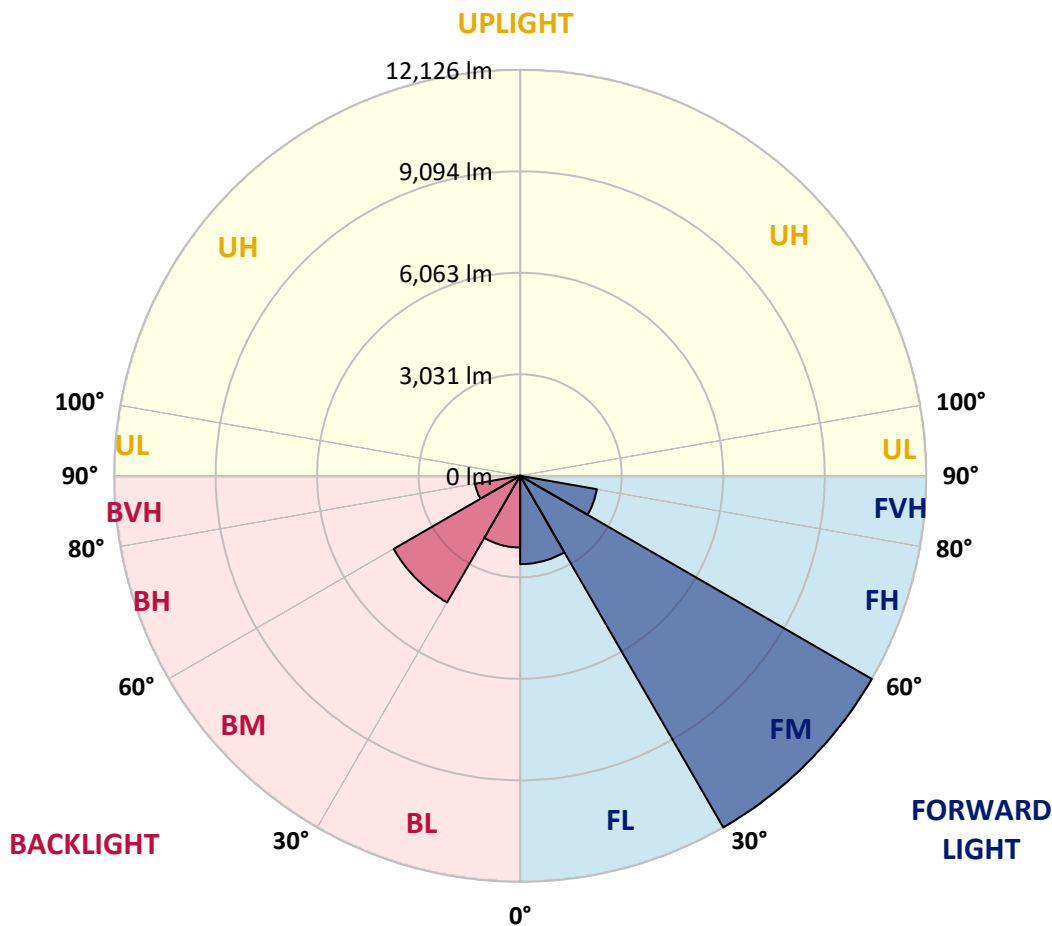
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2639.3	10.5			
FM (30°-60°)	12125.8	48.3			
FH (60°-80°)	2325.5	9.3			G2/5000
FVH (80°-90°)	58.2	0.2			G1/100
BL (0°-30°)	2141.9	8.5	B3/2500		
BM (30°-60°)	4365.7	17.4	B3/5000		
BH (60°-80°)	1368.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	78.9	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





REPORT NUMBER: P530272

CATALOG NUMBER: GALN-SA5C-727-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6
2.5°	5023.4	5013.8	5007.4	5058.6	5039.4	5042.6	5023.4	5042.6	5055.4	5026.6	5068.2
5°	5013.8	5042.6	5017.0	5033.0	5074.6	5061.8	5074.6	5113.1	5103.5	5093.9	5081.1
7.5°	5103.5	5106.7	5125.9	5132.3	5145.1	5132.3	5151.5	5186.7	5177.1	5122.7	5129.1
10°	5231.5	5237.9	5241.1	5276.4	5298.8	5302.0	5279.6	5247.5	5244.3	5318.0	5266.7
12.5°	5378.8	5362.8	5401.2	5414.0	5439.6	5468.5	5497.3	5430.0	5471.7	5474.9	5414.0
15°	5593.3	5609.3	5564.5	5564.5	5574.1	5577.3	5657.4	5625.3	5618.9	5583.7	5609.3
17.5°	5913.5	5804.6	5801.4	5756.6	5750.2	5775.8	5804.6	5830.2	5916.7	5846.3	5708.6
20°	6147.2	6172.8	6080.0	6025.5	6035.1	6092.8	6064.0	6179.2	6240.1	6124.8	5990.3
22.5°	6560.2	6473.8	6496.2	6374.5	6384.1	6445.0	6441.8	6560.2	6595.4	6412.9	6217.6
25°	6838.8	6816.4	6835.6	6739.5	6752.3	6800.3	6877.2	7072.5	7014.9	6813.2	6361.7
27.5°	7245.4	7200.6	7184.5	7149.3	7136.5	7264.6	7354.2	7562.3	7520.7	7226.2	6617.9
30°	7661.6	7632.8	7648.8	7504.7	7555.9	7828.1	7853.7	8138.6	8119.4	7600.8	6902.8
32.5°	7949.7	7965.8	7994.6	7914.5	8141.8	8359.6	8446.0	8769.4	8785.4	8244.3	7453.5
35°	8414.0	8359.6	8375.6	8468.4	8574.1	8971.1	9112.0	9326.5	9460.9	8919.9	7981.8
37.5°	8705.3	8763.0	8695.7	8843.0	9118.4	9595.4	9723.5	9944.4	10085.3	9585.8	8702.1
40°	9160.0	9067.1	9115.2	9220.8	9502.6	10123.7	10088.5	10315.8	10360.6	10152.5	9374.5
42.5°	9649.8	9605.0	9537.8	9777.9	10014.8	10466.3	10536.7	10431.0	10658.4	10706.4	10335.0
45°	10235.7	10290.2	10299.8	10306.2	10514.3	10908.1	10812.0	10719.2	10981.7	11330.7	10930.5
47.5°	10780.0	10607.1	10732.0	10904.9	11199.4	11202.6	11314.7	11093.8	11372.3	11682.9	11468.4
50°	10962.5	10879.3	11045.8	11372.3	11827.0	11875.0	11887.8	11574.0	11718.1	11964.6	11654.1
52.5°	10892.1	10863.3	11289.1	11795.0	12460.9	12704.2	12768.3	12380.9	12460.9	12348.8	12063.9
55°	10555.9	10642.4	11071.4	12102.3	13123.6	13876.0	13997.7	13507.8	12998.8	13085.2	12771.5
56°	10094.9	9944.4	10424.6	11753.3	13094.8	14257.0	14356.3	13744.8	13399.0	13286.9	12765.1
57.5°	8564.5	8369.2	8999.9	10575.1	12368.1	14113.0	14186.6	13844.0	13331.8	13104.4	11833.4
60°	5013.8	5109.9	5910.3	7293.4	9541.0	11570.8	11817.4	12067.1	11724.5	10706.4	8807.8
62.5°	2420.5	2359.6	2932.7	4181.4	5814.2	7386.3	7312.6	8013.8	8398.0	7607.2	5561.3
65°	1267.9	1261.5	1600.8	2282.8	3195.3	3880.4	3947.7	4325.5	4853.7	3918.8	2823.9
67.5°	931.7	957.3	1127.0	1604.0	2055.5	2097.1	2087.5	2276.4	2327.6	1969.0	1735.3
70°	730.0	742.8	867.7	1219.8	1530.4	1370.3	1341.5	1363.9	1514.4	1578.4	1501.6
72.5°	528.3	541.1	646.7	822.8	957.3	934.9	954.1	1079.0	1264.7	1331.9	1251.9
75°	352.2	361.8	419.4	502.7	566.7	611.5	646.7	790.8	963.7	1002.1	963.7
77.5°	243.3	252.9	291.4	355.4	361.8	390.6	403.4	470.6	576.3	624.3	598.7
80°	137.7	137.7	156.9	182.5	224.1	262.5	268.9	323.4	371.4	403.4	409.8
82.5°	64.0	67.2	83.2	112.1	147.3	182.5	188.9	224.1	259.3	291.4	301.0
85°	32.0	35.2	48.0	67.2	89.6	108.9	105.7	108.9	115.3	108.9	112.1
87.5°	9.6	9.6	12.8	16.0	12.8	16.0	16.0	19.2	22.4	25.6	28.8
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: P530272

CATALOG NUMBER: GALN-SA5C-727-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6	5042.6
2.5°	5071.4	5081.1	5017.0	5077.8	5055.4	5052.2	5097.1	5090.7	5106.7	5100.3	5061.8
5°	5074.6	5052.2	5119.5	5058.6	5087.5	5148.3	5106.7	5202.7	5154.7	5186.7	5116.3
7.5°	5173.9	5180.3	5167.5	5193.1	5180.3	5209.1	5186.7	5209.1	5170.7	5173.9	5237.9
10°	5260.3	5241.1	5263.5	5231.5	5253.9	5244.3	5193.1	5177.1	5189.9	5173.9	5215.5
12.5°	5420.4	5385.2	5369.2	5330.8	5305.2	5209.1	5129.1	5084.3	5145.1	5154.7	5135.5
15°	5583.7	5586.9	5513.3	5426.8	5266.7	5122.7	5141.9	5157.9	5157.9	5183.5	5135.5
17.5°	5686.2	5686.2	5618.9	5446.0	5282.8	5199.5	5180.3	5129.1	5084.3	5077.8	5074.6
20°	5865.5	5811.0	5657.4	5442.8	5276.4	5237.9	5093.9	4972.2	4879.3	4847.3	4844.1
22.5°	6070.4	5932.7	5718.2	5449.2	5266.7	5212.3	4943.4	4760.9	4594.4	4524.0	4533.6
25°	6259.3	6038.4	5753.4	5420.4	5231.5	4969.0	4668.0	4415.1	4242.2	4184.6	4155.8
27.5°	6390.5	6150.4	5753.4	5446.0	5100.3	4696.9	4389.5	4066.1	3915.6	3877.2	3883.6
30°	6566.6	6291.3	5852.7	5391.6	4837.7	4344.7	3976.5	3765.2	3675.5	3643.5	3665.9
32.5°	6979.6	6659.5	5990.3	5260.3	4527.2	3992.5	3694.7	3576.3	3445.0	3381.0	3358.6
35°	7427.9	7008.5	6124.8	5039.4	4178.2	3672.3	3486.6	3377.8	3220.9	3150.4	3163.3
37.5°	8061.8	7456.7	6134.4	4674.4	3800.4	3493.0	3323.3	3153.6	3025.6	2916.7	2884.7
40°	8916.7	8068.2	6112.0	4290.2	3496.2	3281.7	3156.8	2945.5	2801.5	2724.6	2740.6
42.5°	9669.0	8785.4	6019.1	3854.8	3220.9	3137.6	2996.8	2788.7	2647.8	2567.7	2561.3
45°	10303.0	9313.7	5843.0	3483.4	2990.4	2977.6	2814.3	2654.2	2542.1	2468.5	2500.5
47.5°	10888.9	9739.5	5577.3	3112.0	2779.0	2804.7	2647.8	2548.5	2478.1	2410.9	2407.7
50°	11100.2	9733.1	5343.6	2804.7	2609.4	2596.6	2590.2	2484.5	2410.9	2353.2	2378.8
52.5°	11452.4	9841.9	5090.7	2593.4	2455.7	2458.9	2481.3	2404.5	2321.2	2286.0	2318.0
55°	11958.2	9857.9	4533.6	2346.8	2327.6	2350.0	2350.0	2298.8	2228.4	2199.5	2183.5
56°	11545.2	9380.9	4066.1	2282.8	2263.6	2263.6	2324.4	2266.8	2180.3	2157.9	2138.7
57.5°	10648.8	8218.7	3403.4	2206.0	2177.1	2222.0	2254.0	2193.1	2113.1	2081.1	2100.3
60°	7344.6	5561.3	2558.1	2039.5	2039.5	2113.1	2138.7	2049.1	2013.9	2010.6	1985.0
62.5°	4287.0	3240.1	2001.0	1889.0	1895.4	1956.2	1975.4	1924.2	1879.4	1933.8	1959.4
65°	2273.2	1933.8	1716.1	1728.9	1732.1	1780.1	1863.4	1860.2	1857.0	1873.0	1876.2
67.5°	1645.7	1607.2	1559.2	1546.4	1552.8	1588.0	1671.3	1735.3	1732.1	1693.7	1664.9
70°	1466.4	1411.9	1383.1	1386.3	1360.7	1402.3	1469.6	1511.2	1437.6	1392.7	1373.5
72.5°	1219.8	1203.8	1184.6	1187.8	1136.6	1127.0	1050.1	1050.1	1030.9	1018.1	1040.5
75°	931.7	925.3	934.9	918.9	864.5	806.8	762.0	720.4	656.3	630.7	617.9
77.5°	589.1	608.3	630.7	595.5	573.1	531.5	486.7	445.0	393.8	365.0	365.0
80°	400.2	416.2	432.2	425.8	400.2	361.8	326.6	281.7	246.5	224.1	220.9
82.5°	304.2	317.0	339.4	313.8	288.2	256.1	227.3	195.3	163.3	137.7	137.7
85°	108.9	124.9	137.7	150.5	160.1	163.3	140.9	115.3	92.8	73.6	70.4
87.5°	28.8	32.0	35.2	32.0	32.0	32.0	35.2	32.0	28.8	22.4	22.4
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)