

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: P529194

Luminaire Tested: **GALN-SA4B-750-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-750-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19079 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

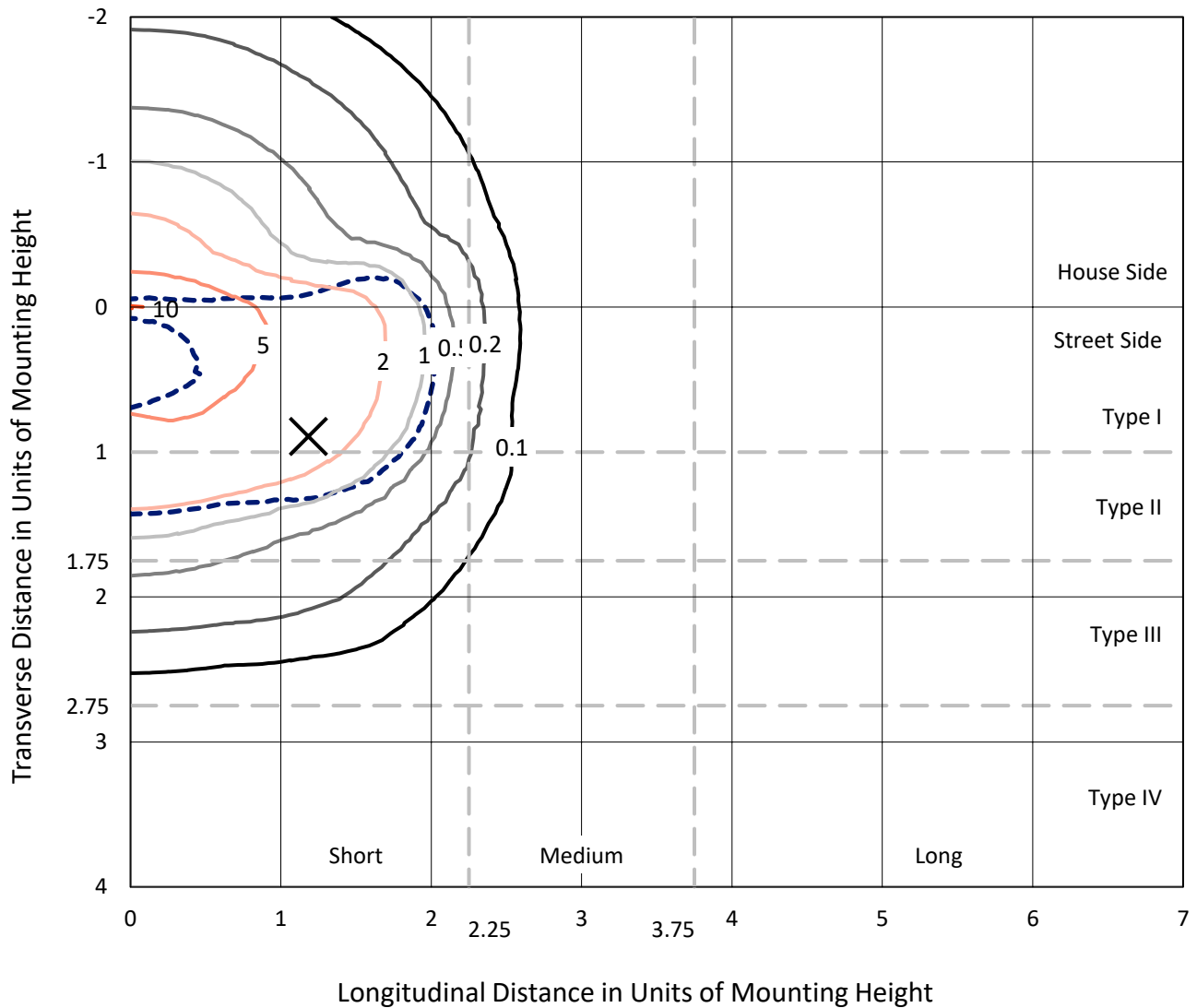
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

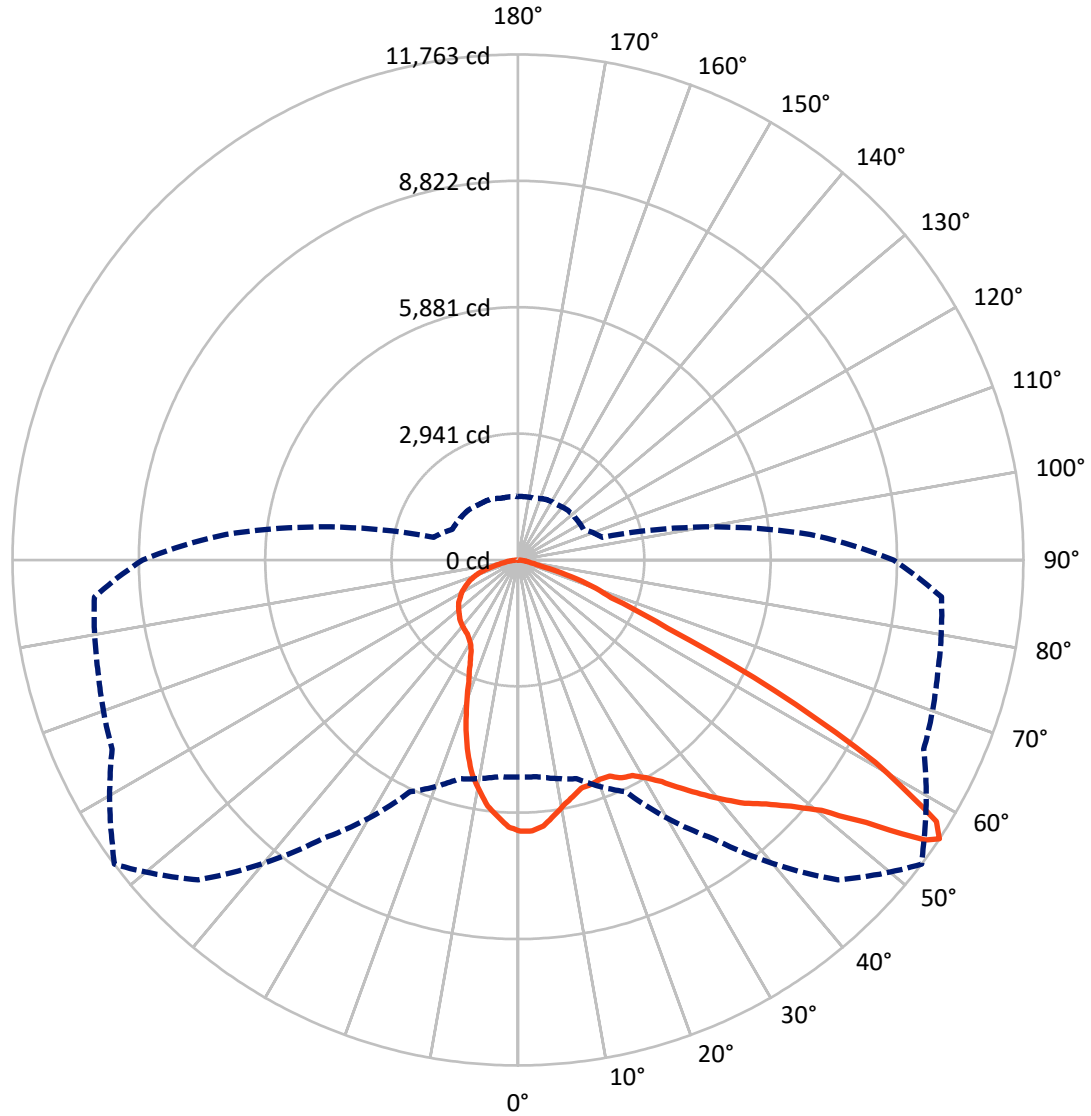
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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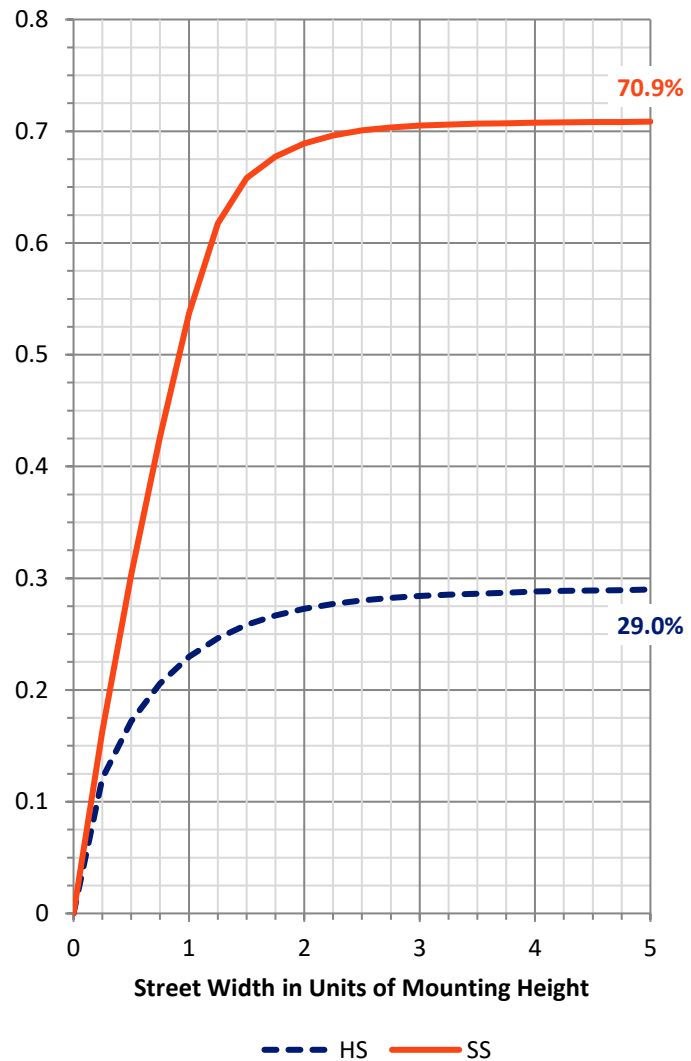
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5567.7	0.0	5567.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	13511.3	0.0	13511.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	19079.0	0.0	19079.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.8	2.9
10°-20°	1395.6	7.3
20°-30°	2058.0	10.8
30°-40°	2940.5	15.4
40°-50°	4047.2	21.2
50°-60°	4782.7	25.1
60°-70°	2548.8	13.4
70°-80°	646.6	3.4
80°-90°	100.8	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°	19079.0	100.0
0°-180°	19079.0	100.0



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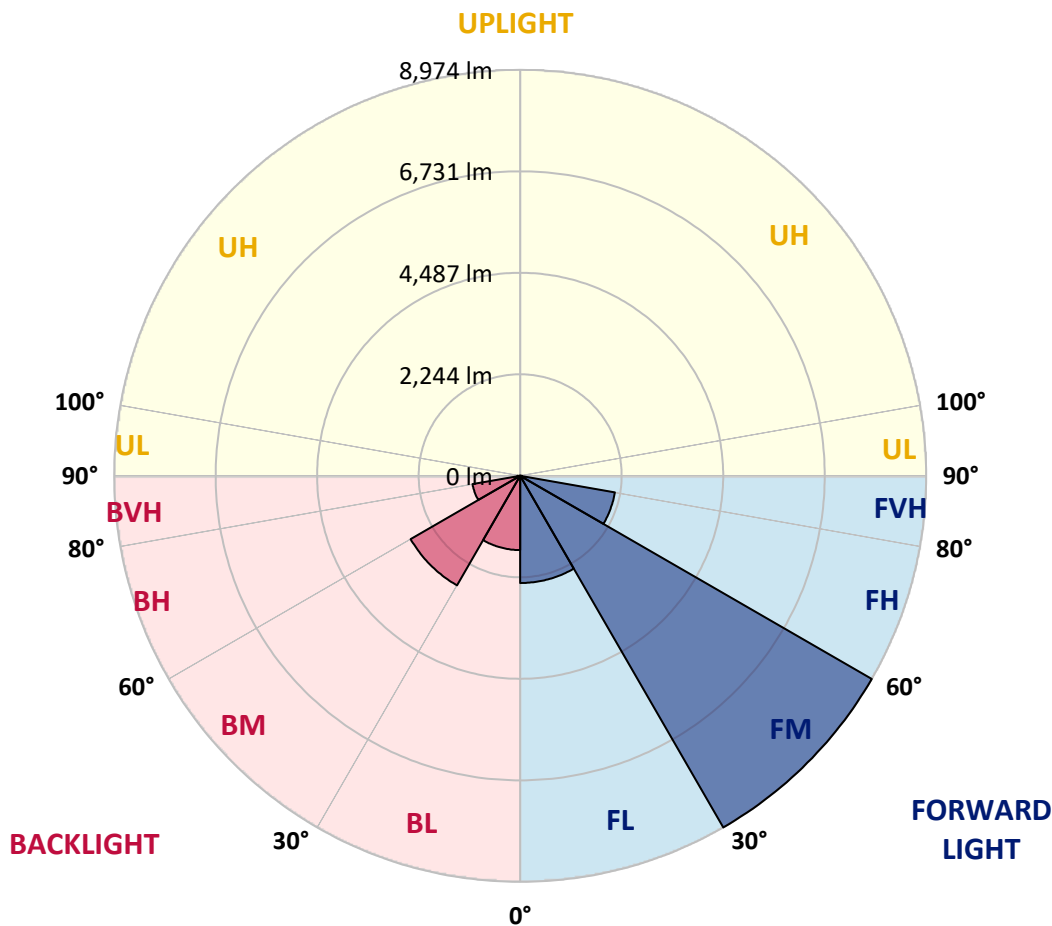
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.3	12.4			
FM (30°-60°)	8974.4	47.0			
FH (60°-80°)	2126.1	11.1			G2/5000
FVH (80°-90°)	40.5	0.2			G1/100
BL (0°-30°)	1642.1	8.6	B3/2500		
BM (30°-60°)	2795.9	14.7	B3/5000		
BH (60°-80°)	1069.3	5.6	B3/2500		G3/2500
BVH (80°-90°)	60.3	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°	53°	55°	65°	75°	85°
0°	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1
2.5°	6233.8	6179.9	6211.7	6199.5	6299.8	6329.2	6314.5	6326.8	6383.1	6356.1	6299.8
5°	5825.0	5900.9	5915.6	5952.3	6011.0	6126.1	6216.6	6241.1	6268.0	6392.9	6380.6
7.5°	5453.0	5504.4	5477.5	5585.2	5712.4	5898.5	6008.6	6028.2	6275.4	6343.9	6395.3
10°	5218.1	5166.7	5289.0	5318.4	5462.8	5675.7	5807.9	5888.7	6113.8	6385.5	6417.3
12.5°	5000.2	4983.1	5056.5	5139.7	5301.3	5521.5	5656.2	5688.0	6035.5	6321.9	6471.2
15°	4838.7	4819.1	4892.5	4953.7	5142.2	5338.0	5509.3	5599.9	5949.9	6285.2	6424.7
17.5°	4711.4	4709.0	4750.6	4860.7	5054.1	5218.1	5494.6	5499.5	5905.8	6341.5	6463.8
20°	4704.1	4701.6	4709.0	4831.4	5007.6	5208.3	5448.1	5492.2	5905.8	6302.3	6466.3
22.5°	4765.3	4726.1	4770.2	4848.5	4975.8	5225.4	5465.3	5563.2	6047.8	6495.6	6576.4
25°	4863.2	4873.0	4897.4	4924.4	4997.8	5264.6	5617.0	5697.8	6214.2	6662.1	6728.2
27.5°	5041.8	5036.9	5046.7	5061.4	5125.1	5301.3	5678.2	5886.2	6561.7	6958.2	6892.1
30°	5303.7	5286.6	5325.7	5377.1	5318.4	5418.8	5881.3	6038.0	6884.8	7256.8	7075.7
32.5°	5541.1	5604.8	5678.2	5700.2	5629.2	5648.8	6150.6	6309.6	7154.0	7623.9	7300.9
35°	5837.3	5888.7	5986.6	6055.1	6042.9	5984.1	6517.7	6728.2	7543.2	7893.2	7538.3
37.5°	6126.1	6187.3	6348.8	6551.9	6439.4	6412.4	6909.3	7083.0	7663.1	8037.6	7712.1
40°	6591.1	6588.7	6867.7	6972.9	7073.3	7026.8	7315.6	7374.3	7726.7	8005.8	7716.9
42.5°	7136.9	7102.6	7386.5	7550.5	7680.2	7685.1	7739.0	7719.4	7756.1	7844.2	7665.5
45°	7655.8	7729.2	8015.5	8309.2	8439.0	8453.6	8096.3	8059.6	7807.5	7797.7	7567.6
47.5°	8289.7	8306.8	8541.8	8928.5	9229.5	9126.7	8558.9	8478.1	8032.7	8108.5	7731.6
50°	8326.4	8453.6	8664.1	9119.4	10044.5	10017.6	9158.5	9006.8	8394.9	8549.1	8189.3
52.5°	7557.9	7528.5	7778.1	8522.2	9983.3	10903.6	10152.2	9790.0	9173.2	9055.7	8930.9
55°	5759.0	5827.5	6047.8	6799.1	8669.0	10915.8	11505.7	11209.5	10005.4	9804.7	9660.3
56°	5051.6	5061.4	5269.5	5954.8	7910.3	10526.7	11762.7	11522.8	10419.0	10113.0	9892.8
57.5°	4187.7	4131.4	4239.1	4613.5	6676.8	9704.3	11481.2	11716.2	10903.6	10445.9	10140.0
60°	3296.8	3284.5	3240.5	3309.0	4219.5	7310.7	9557.5	10086.1	10854.6	10132.6	9711.7
62.5°	2692.2	2631.1	2719.2	2817.1	2932.1	4535.2	6715.9	7026.8	8617.6	8089.0	7296.0
65°	2087.7	2058.3	2168.5	2486.7	2555.2	2880.7	3825.4	4065.3	5088.3	4997.8	4400.6
67.5°	1436.7	1441.6	1537.0	2021.6	2369.2	2339.8	2342.3	2467.1	2655.5	1972.7	1718.1
70°	910.5	908.0	959.4	1302.1	1906.6	1926.2	1828.3	1791.6	1698.6	1027.9	1089.1
72.5°	585.0	567.8	594.7	719.6	986.3	1140.5	1174.8	1196.8	983.9	807.7	876.2
75°	330.4	313.3	303.5	335.3	389.2	450.3	494.4	509.1	570.3	611.9	648.6
77.5°	100.3	90.6	110.1	146.8	193.4	259.4	315.7	325.5	384.3	433.2	469.9
80°	44.1	48.9	68.5	97.9	137.1	183.6	222.7	237.4	276.6	313.3	323.1
82.5°	26.9	29.4	46.5	66.1	95.5	129.7	159.1	164.0	203.1	232.5	239.9
85°	9.8	12.2	24.5	39.2	61.2	83.2	83.2	90.6	83.2	83.2	90.6
87.5°	0.0	0.0	2.4	4.9	4.9	7.3	9.8	9.8	12.2	14.7	17.1
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°	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1	6312.1
2.5°	6329.2	6317.0	6297.4	6226.4	6219.1	6197.1	6074.7	6055.1	6074.7	6015.9	6020.8
5°	6317.0	6353.7	6206.8	6135.9	6003.7	5908.2	5798.1	5741.8	5641.5	5577.8	5648.8
7.5°	6370.8	6356.1	6172.6	6018.4	5820.1	5577.8	5384.5	5274.3	5098.1	5049.2	5085.9
10°	6351.2	6272.9	6057.5	5854.4	5479.9	5267.0	4953.7	4650.2	4483.8	4398.1	4385.9
12.5°	6324.3	6302.3	5942.5	5592.5	5198.5	4750.6	4310.0	4023.7	3752.0	3634.5	3651.7
15°	6356.1	6170.1	5727.1	5284.1	4760.4	4173.0	3698.2	3328.6	3140.1	3064.3	3064.3
17.5°	6341.5	6106.5	5624.3	4939.0	4275.8	3580.7	3059.4	2836.6	2758.3	2758.3	2780.4
20°	6348.8	6148.1	5416.3	4593.9	3703.1	3015.3	2636.0	2555.2	2589.4	2601.7	2613.9
22.5°	6390.4	6011.0	5213.2	4214.6	3172.0	2579.7	2393.6	2396.1	2457.3	2523.4	2511.1
25°	6441.8	5957.2	4966.0	3837.7	2765.7	2366.7	2308.0	2300.6	2347.1	2381.4	2386.3
27.5°	6397.7	5864.2	4713.9	3367.8	2432.8	2224.8	2212.5	2217.4	2232.1	2300.6	2278.6
30°	6542.1	5891.1	4398.1	2973.7	2249.2	2178.3	2163.6	2156.2	2178.3	2197.8	2180.7
32.5°	6720.8	5795.7	4163.2	2594.3	2158.7	2144.0	2114.6	2104.8	2117.1	2097.5	2107.3
35°	6799.1	5778.5	3857.2	2322.7	2087.7	2075.5	2058.3	2055.9	2058.3	2041.2	2026.5
37.5°	6843.2	5859.3	3507.3	2197.8	2043.7	2055.9	2016.7	2011.8	1967.8	1977.6	1984.9
40°	6919.1	5734.5	3223.3	2077.9	2016.7	1992.3	1958.0	1950.7	1921.3	1904.1	1921.3
42.5°	6808.9	5697.8	2944.3	2026.5	1977.6	1950.7	1926.2	1884.6	1874.8	1860.1	1850.3
45°	6720.8	5487.3	2694.7	1962.9	1931.1	1916.4	1869.9	1825.8	1789.1	1803.8	1781.8
47.5°	6786.9	5413.9	2447.5	1909.0	1867.4	1850.3	1803.8	1769.5	1732.8	1715.7	1710.8
50°	7051.2	5550.9	2239.5	1869.9	1813.6	1803.8	1742.6	1703.5	1669.2	1657.0	1661.8
52.5°	7682.7	5925.4	2097.5	1789.1	1762.2	1718.1	1683.9	1634.9	1612.9	1573.7	1598.2
55°	8483.0	6534.8	2060.8	1713.2	1698.6	1659.4	1612.9	1576.2	1534.6	1502.8	1495.4
56°	8740.0	6826.1	2031.4	1683.9	1659.4	1637.4	1576.2	1554.2	1488.1	1480.7	1475.8
57.5°	8948.0	7083.0	2036.3	1627.6	1603.1	1583.5	1546.8	1493.0	1448.9	1422.0	1434.2
60°	8478.1	6630.3	1943.3	1541.9	1537.0	1500.3	1448.9	1424.4	1370.6	1338.8	1331.4
62.5°	6302.3	4500.9	1576.2	1431.8	1429.3	1390.2	1331.4	1304.5	1294.7	1250.7	1250.7
65°	3629.6	2822.0	1363.3	1341.2	1321.6	1282.5	1223.7	1201.7	1177.2	1162.6	1150.3
67.5°	1549.3	1463.6	1238.4	1236.0	1214.0	1165.0	1106.3	1072.0	1040.2	1010.8	1025.5
70°	1123.4	1140.5	1118.5	1106.3	1079.3	1018.2	966.8	925.2	876.2	856.6	871.3
72.5°	890.9	927.6	959.4	961.9	930.0	859.1	802.8	746.5	692.6	665.7	678.0
75°	675.5	700.0	731.8	739.1	692.6	643.7	589.8	531.1	489.5	457.7	462.6
77.5°	487.1	482.2	511.5	506.6	484.6	450.3	401.4	347.5	301.0	271.7	274.1
80°	332.9	340.2	357.3	354.9	328.0	305.9	269.2	225.2	190.9	166.4	161.5
82.5°	232.5	244.7	259.4	247.2	225.2	203.1	176.2	144.4	117.5	97.9	93.0
85°	83.2	95.5	110.1	117.5	124.8	119.9	100.3	80.8	58.7	48.9	46.5
87.5°	17.1	19.6	22.0	22.0	22.0	19.6	17.1	17.1	14.7	7.3	7.3
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)