

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: P529144

Luminaire Tested: **GALN-SA4B-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17740 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

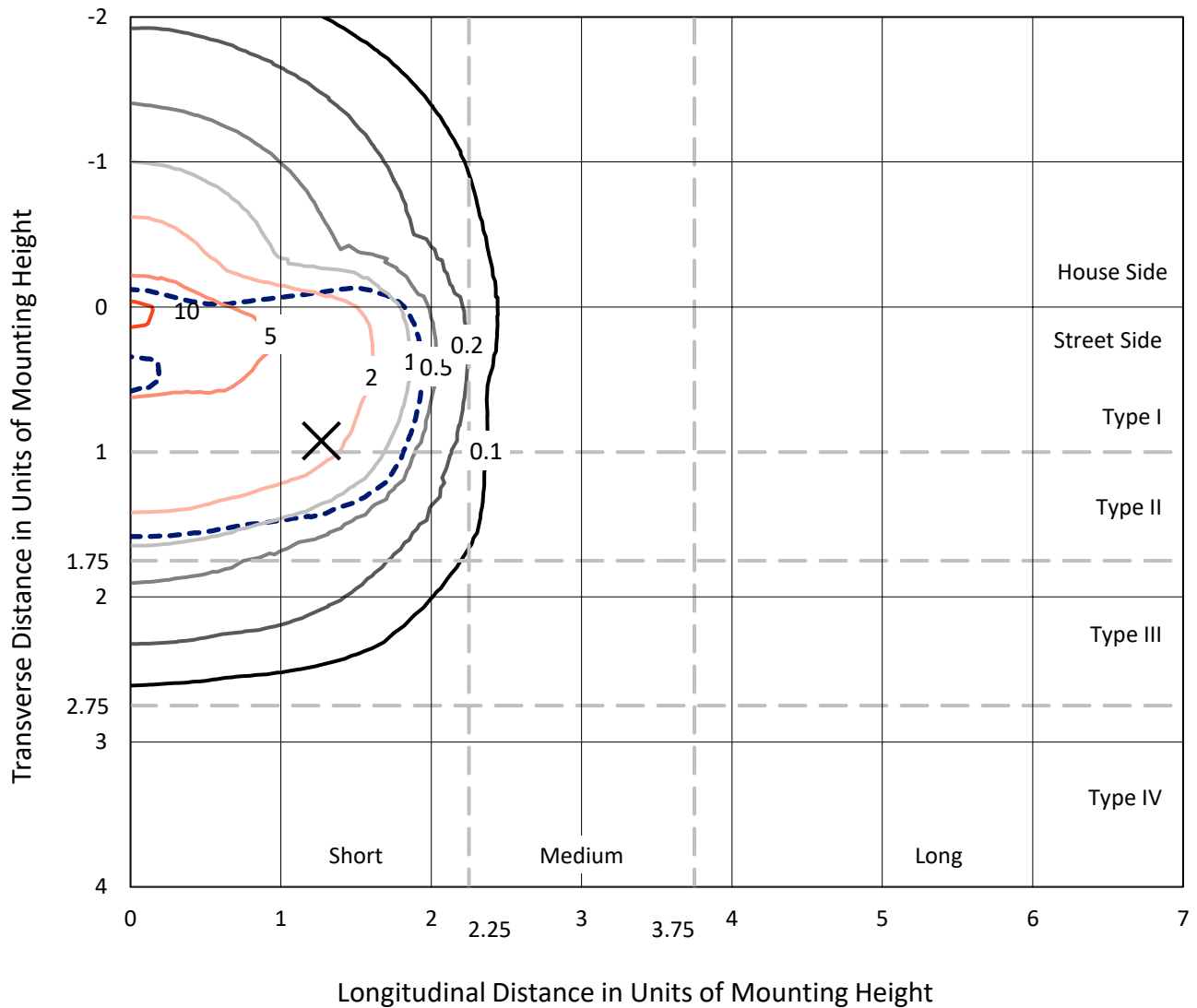
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

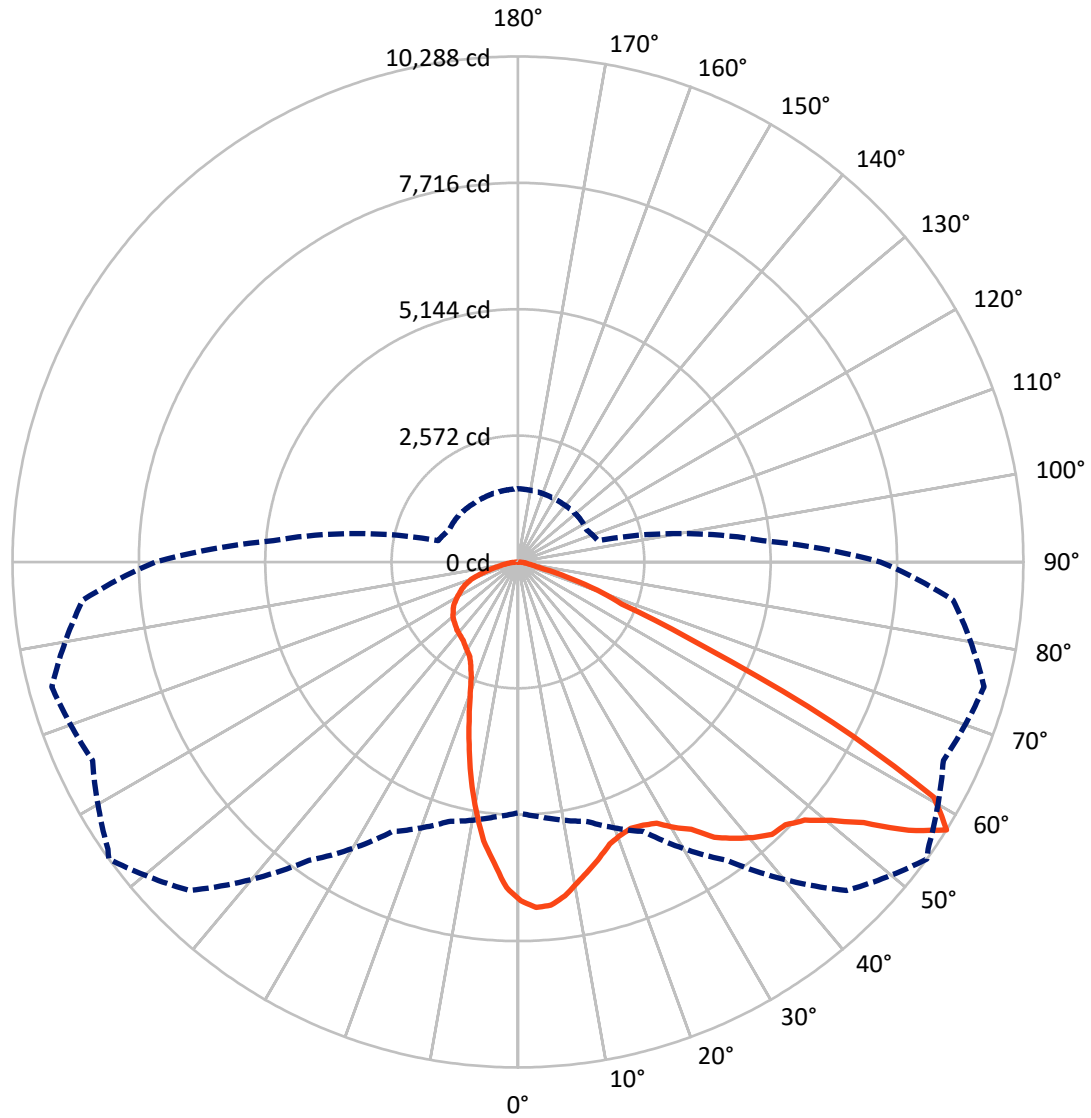
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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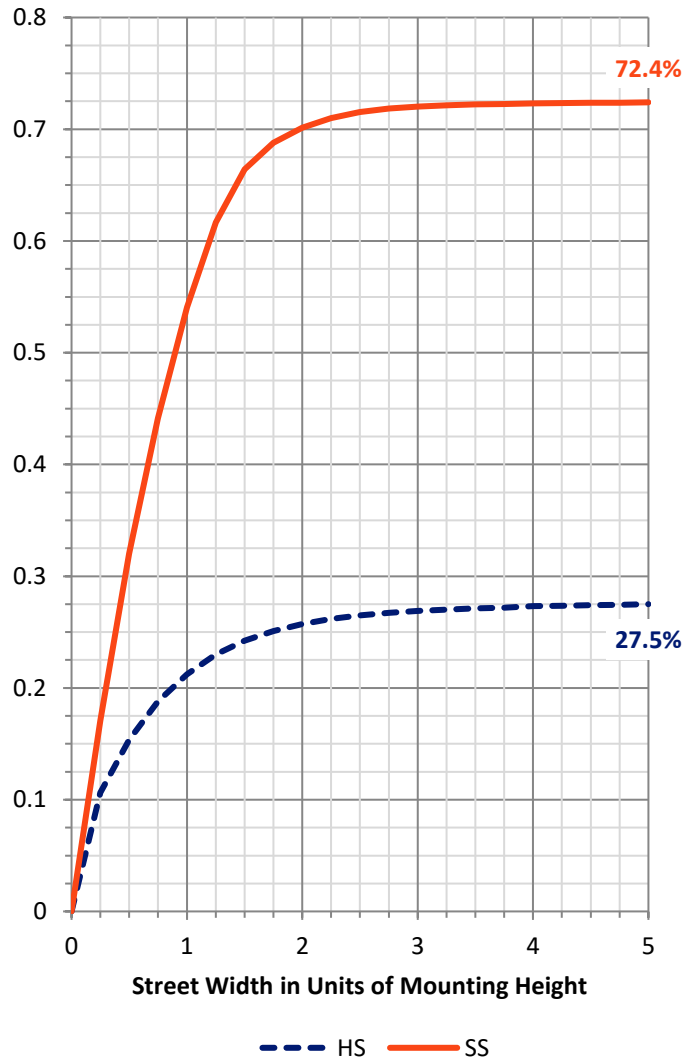
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4907.9	0.0	4907.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	12832.1	0.0	12832.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	17740.0	0.0	17740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.7	3.4
10°-20°	1376.8	7.8
20°-30°	1934.5	10.9
30°-40°	2704.4	15.2
40°-50°	3661.3	20.6
50°-60°	4459.6	25.1
60°-70°	2322.7	13.1
70°-80°	595.2	3.4
80°-90°	90.8	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°	17740.0	100.0
0°-180°	17740.0	100.0

Coefficient of Utilization



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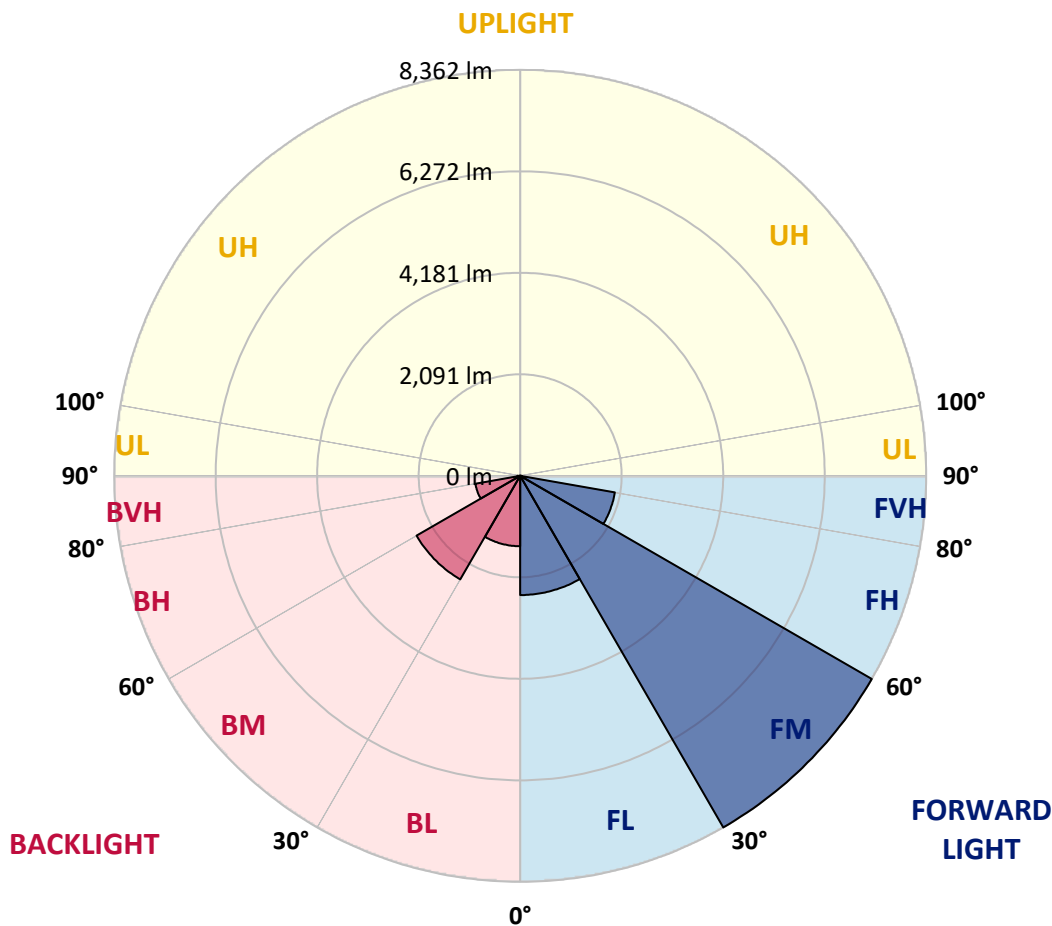
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2455.5	13.8			
FM (30°-60°)	8362.1	47.1			
FH (60°-80°)	1980.3	11.2			G2/5000
FVH (80°-90°)	34.3	0.2			G1/100
BL (0°-30°)	1450.5	8.2	B3/2500		
BM (30°-60°)	2463.2	13.9	B2/2500		
BH (60°-80°)	937.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3
2.5°	7091.4	7064.1	7068.6	7105.1	7059.5	7041.3	7041.3	6952.3	6959.2	6897.6	6881.7
5°	6927.3	6863.4	6906.7	6961.5	6970.6	6988.8	7018.5	6995.7	6931.8	6865.7	6758.5
7.5°	6498.6	6555.6	6571.5	6610.3	6692.4	6767.6	6861.1	6797.3	6795.0	6728.9	6665.0
10°	6122.3	6088.1	6174.8	6231.8	6368.6	6494.0	6637.7	6630.8	6665.0	6589.8	6480.3
12.5°	5748.4	5721.0	5762.1	5892.0	6083.6	6266.0	6437.0	6373.2	6555.6	6541.9	6307.0
15°	5351.6	5372.2	5431.4	5552.3	5803.1	6022.0	6238.6	6240.9	6402.8	6457.5	6142.9
17.5°	5073.5	5050.7	5125.9	5306.0	5529.5	5791.7	6038.0	6088.1	6336.7	6368.6	6092.7
20°	4866.0	4897.9	4995.9	5087.1	5344.8	5661.7	5939.9	5958.2	6323.0	6409.7	6012.9
22.5°	4815.8	4797.5	4829.5	4977.7	5189.7	5534.1	5887.5	5955.9	6320.7	6396.0	5862.4
25°	4763.3	4822.6	4820.3	4968.6	5123.6	5431.4	5930.8	6006.1	6441.6	6466.7	5882.9
27.5°	4881.9	4875.1	4938.9	4950.3	5141.9	5458.8	6022.0	6079.0	6642.2	6621.7	5898.9
30°	5000.5	4966.3	5005.0	5139.6	5228.5	5616.1	6272.8	6268.3	6902.2	6888.5	5949.1
32.5°	5146.4	5130.5	5155.5	5274.1	5424.6	5825.9	6484.9	6619.4	7166.7	7253.3	6122.3
35°	5173.8	5239.9	5299.2	5458.8	5673.1	6165.7	6883.9	6995.7	7472.2	7743.6	6453.0
37.5°	5347.1	5372.2	5511.3	5794.0	5990.1	6619.4	7137.0	7207.7	7750.4	8058.2	6801.8
40°	5531.8	5561.4	5771.2	6067.6	6336.7	6915.9	7374.2	7397.0	7839.3	8299.9	7029.9
42.5°	5782.6	5810.0	6017.5	6389.1	6749.4	7169.0	7584.0	7609.0	7832.5	8578.1	7392.4
45°	6042.5	6108.7	6352.6	6774.5	7098.3	7465.4	7631.8	7734.4	7896.3	8826.7	7686.6
47.5°	6407.4	6468.9	6669.6	7082.3	7460.8	7725.3	7853.0	7953.3	8049.1	9043.3	7875.8
50°	6795.0	6806.4	7050.4	7424.3	7702.5	8019.5	8265.7	8299.9	8249.8	9294.1	8197.3
52.5°	7080.0	7116.5	7305.8	7670.6	8085.6	8475.5	8813.0	8849.5	8751.4	9387.6	8306.8
55°	6608.0	6587.5	6895.3	7381.0	8343.3	9155.0	9645.3	9672.6	9116.3	9677.2	8664.8
57.5°	5107.7	5205.7	5467.9	6053.9	7412.9	9456.0	10288.3	10190.2	9554.1	9823.1	8892.8
60°	3712.2	3689.4	3864.9	4257.1	5586.5	8149.4	9727.3	9827.7	9196.1	8854.0	7333.1
62.5°	3023.5	2991.6	3005.3	3019.0	3605.0	5408.6	7200.9	7198.6	7082.3	6364.0	4945.8
65°	2417.0	2492.3	2499.1	2601.7	2677.0	3231.0	4172.8	4396.2	3828.5	3139.8	2277.9
67.5°	1821.9	1794.5	1885.7	2250.6	2391.9	2332.6	2277.9	2303.0	1637.2	1181.1	1112.7
70°	1074.0	1062.6	1172.0	1568.8	1970.1	1853.8	1717.0	1719.3	1124.1	825.4	918.9
72.5°	588.3	586.0	608.8	795.8	1119.6	1162.9	1030.7	1062.6	670.4	668.1	718.3
75°	328.3	321.5	314.7	351.2	403.6	426.4	435.5	440.1	460.6	515.3	535.8
77.5°	120.9	116.3	116.3	134.5	171.0	214.3	271.3	275.9	326.1	374.0	394.5
80°	41.0	45.6	61.6	84.4	114.0	152.8	184.7	189.3	230.3	262.2	269.1
82.5°	25.1	27.4	41.0	59.3	82.1	107.2	136.8	139.1	171.0	191.5	200.7
85°	11.4	13.7	22.8	36.5	52.4	70.7	73.0	73.0	70.7	73.0	68.4
87.5°	0.0	0.0	4.6	4.6	4.6	6.8	9.1	6.8	11.4	13.7	13.7
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°	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3	6895.3
2.5°	6833.8	6808.7	6731.2	6662.8	6642.2	6551.0	6416.5	6432.5	6334.4	6380.0	6332.1
5°	6740.3	6655.9	6457.5	6373.2	6152.0	6051.7	5983.3	5812.2	5732.4	5716.5	5648.1
7.5°	6500.9	6448.4	6199.9	5971.9	5737.0	5536.3	5278.7	5103.1	4977.7	4943.5	4843.2
10°	6311.6	6195.3	5851.0	5504.4	5169.2	4820.3	4485.2	4222.9	4095.2	3947.0	3896.9
12.5°	6124.6	5949.1	5483.9	5039.2	4606.0	4165.9	3760.1	3440.8	3162.6	3096.5	3073.7
15°	6008.3	5702.8	5155.5	4619.7	4004.0	3429.4	3023.5	2813.8	2642.8	2572.1	2622.2
17.5°	5855.6	5499.9	4840.9	4127.2	3449.9	2920.9	2581.2	2451.2	2389.7	2396.5	2376.0
20°	5664.0	5308.3	4428.2	3680.2	2955.1	2533.3	2339.5	2291.6	2300.7	2316.7	2309.8
22.5°	5527.2	5075.7	4129.4	3224.2	2553.8	2319.0	2239.2	2205.0	2234.6	2248.3	2236.9
25°	5422.3	4877.4	3766.9	2820.6	2321.2	2198.1	2161.6	2159.4	2205.0	2223.2	2211.8
27.5°	5326.6	4692.7	3406.6	2512.8	2166.2	2104.6	2093.2	2120.6	2150.2	2168.5	2184.4
30°	5269.5	4551.3	3069.2	2255.1	2088.7	2059.0	2038.5	2063.6	2079.5	2097.8	2088.7
32.5°	5324.3	4451.0	2743.1	2109.2	2024.8	1995.2	2022.5	2006.6	2033.9	2049.9	2024.8
35°	5495.3	4362.0	2510.5	2031.7	1951.9	1963.3	1967.8	1961.0	1972.4	1958.7	1988.3
37.5°	5664.0	4330.1	2296.2	1965.5	1917.7	1917.7	1913.1	1899.4	1922.2	1917.7	1931.3
40°	5878.4	4350.6	2113.7	1894.8	1885.7	1881.2	1862.9	1860.6	1851.5	1853.8	1858.4
42.5°	6065.3	4396.2	2008.9	1849.2	1856.1	1865.2	1831.0	1803.6	1815.0	1792.2	1792.2
45°	6263.7	4437.3	1915.4	1817.3	1810.5	1808.2	1780.8	1764.9	1755.8	1758.0	1778.6
47.5°	6576.1	4496.6	1844.7	1774.0	1778.6	1744.4	1737.5	1717.0	1726.1	1739.8	1742.1
50°	6797.3	4622.0	1790.0	1723.8	1739.8	1717.0	1675.9	1666.8	1666.8	1689.6	1685.1
52.5°	6952.3	4797.5	1737.5	1669.1	1675.9	1657.7	1644.0	1623.5	1609.8	1641.7	1657.7
55°	7426.6	5089.4	1723.8	1623.5	1621.2	1603.0	1577.9	1557.4	1550.5	1555.1	1587.0
57.5°	7381.0	4998.2	1680.5	1543.7	1539.1	1514.1	1489.0	1482.1	1479.9	1484.4	1493.5
60°	5992.4	3691.6	1500.4	1452.5	1445.6	1441.1	1416.0	1388.6	1375.0	1388.6	1377.2
62.5°	3965.3	2471.7	1322.5	1343.0	1347.6	1336.2	1295.2	1267.8	1272.4	1288.3	1263.2
65°	1947.3	1452.5	1199.4	1254.1	1258.7	1226.7	1188.0	1156.1	1140.1	1153.8	1142.4
67.5°	1112.7	1110.5	1099.1	1156.1	1153.8	1121.9	1060.3	1032.9	1005.6	1010.1	1003.3
70°	944.0	962.2	985.0	1019.3	1017.0	980.5	907.5	887.0	848.2	843.7	832.3
72.5°	743.3	775.3	825.4	850.5	830.0	784.4	736.5	702.3	668.1	647.6	654.4
75°	551.8	597.4	624.8	640.7	608.8	583.7	545.0	503.9	462.9	444.6	437.8
77.5°	401.3	415.0	440.1	451.5	431.0	405.9	383.1	342.0	303.3	278.2	271.3
80°	280.5	289.6	307.8	307.8	307.8	296.4	266.8	225.7	200.7	177.9	173.3
82.5°	196.1	205.2	223.5	214.3	212.1	198.4	180.1	148.2	120.9	104.9	100.3
85°	68.4	75.2	91.2	109.4	116.3	114.0	102.6	82.1	63.8	52.4	47.9
87.5°	16.0	16.0	18.2	16.0	16.0	18.2	16.0	16.0	16.0	11.4	9.1
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)