

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: P652389

Luminaire Tested: **GALN-SA5B-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652389
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-SA5B-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 20274 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

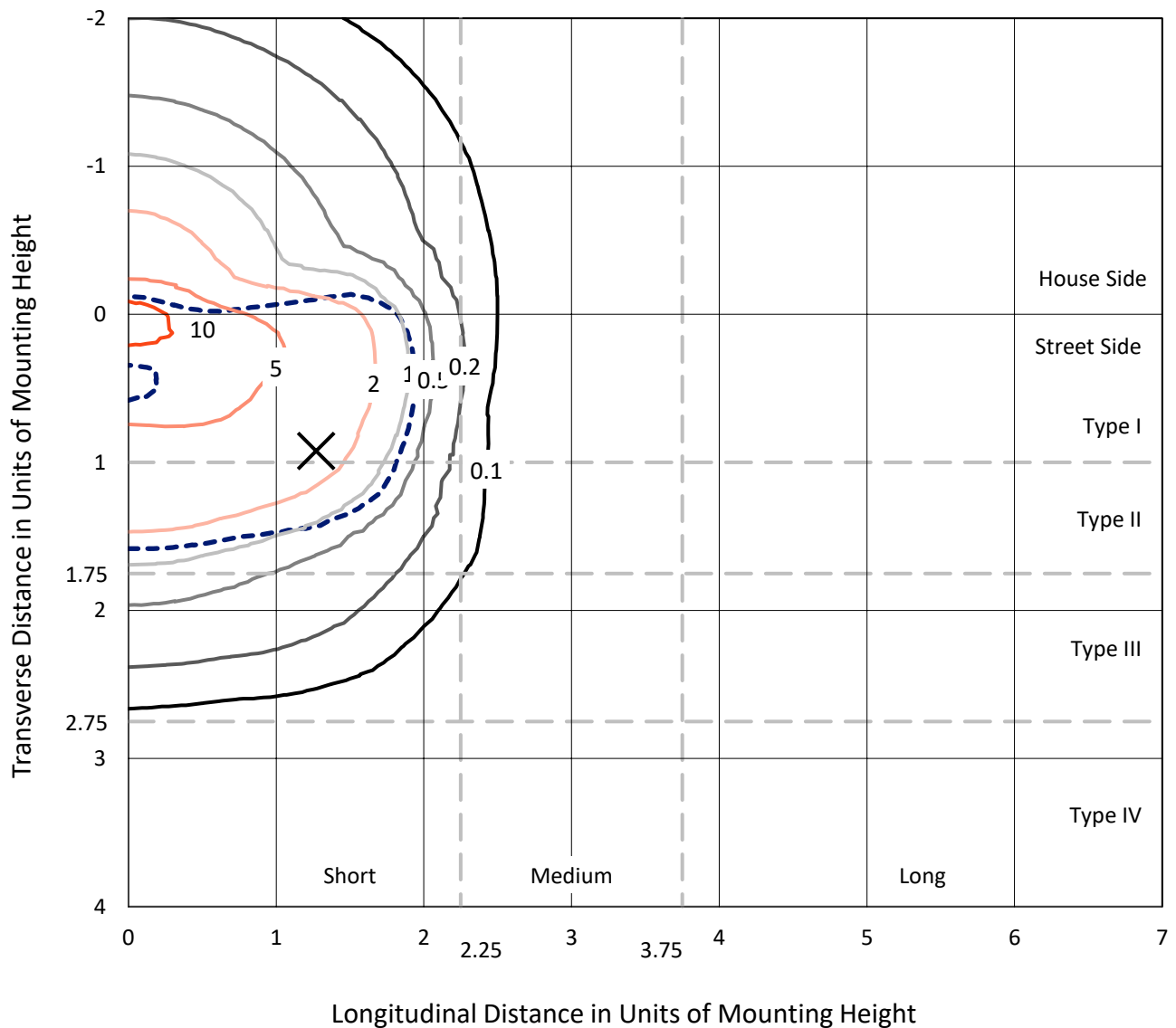
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

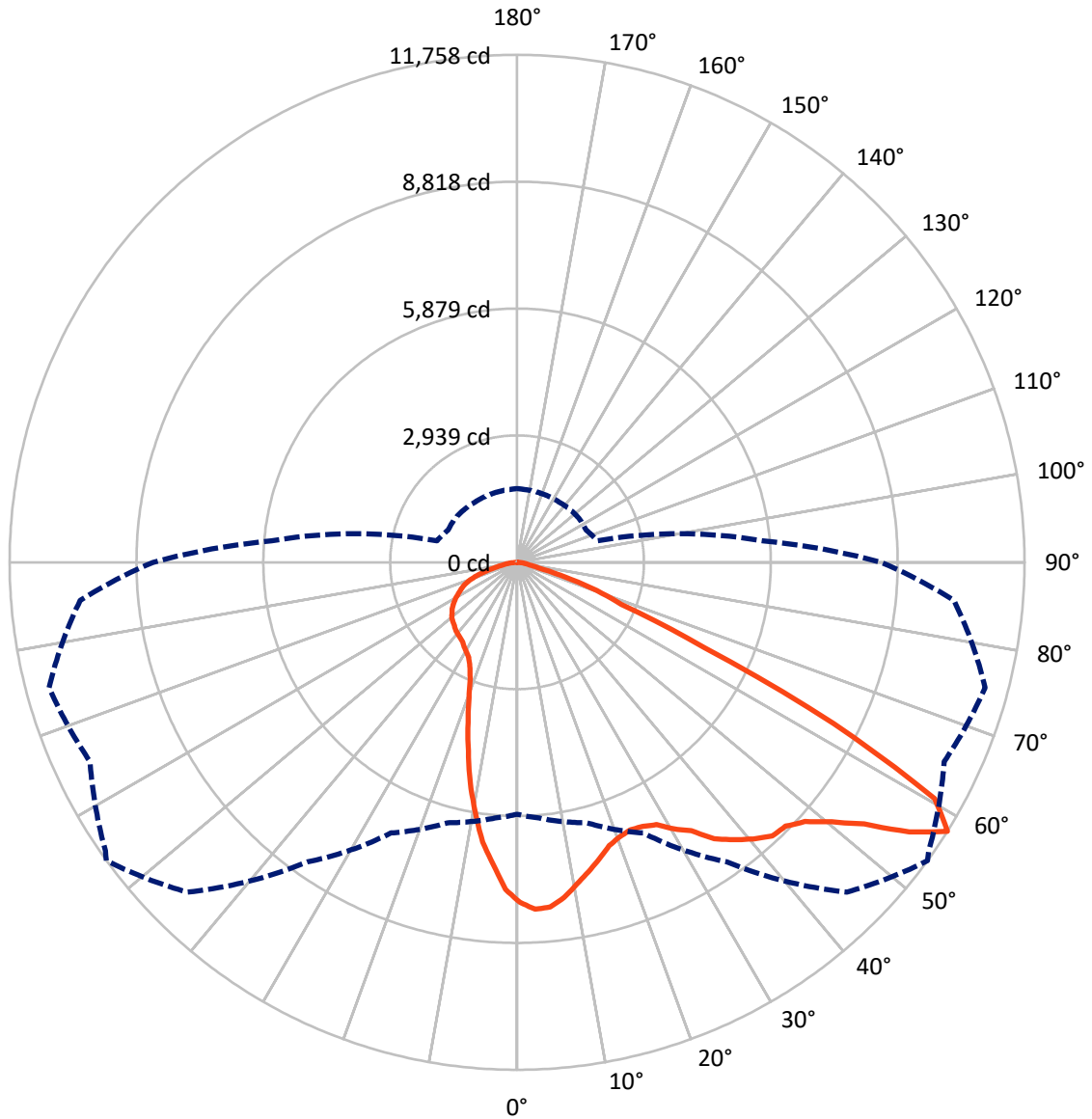
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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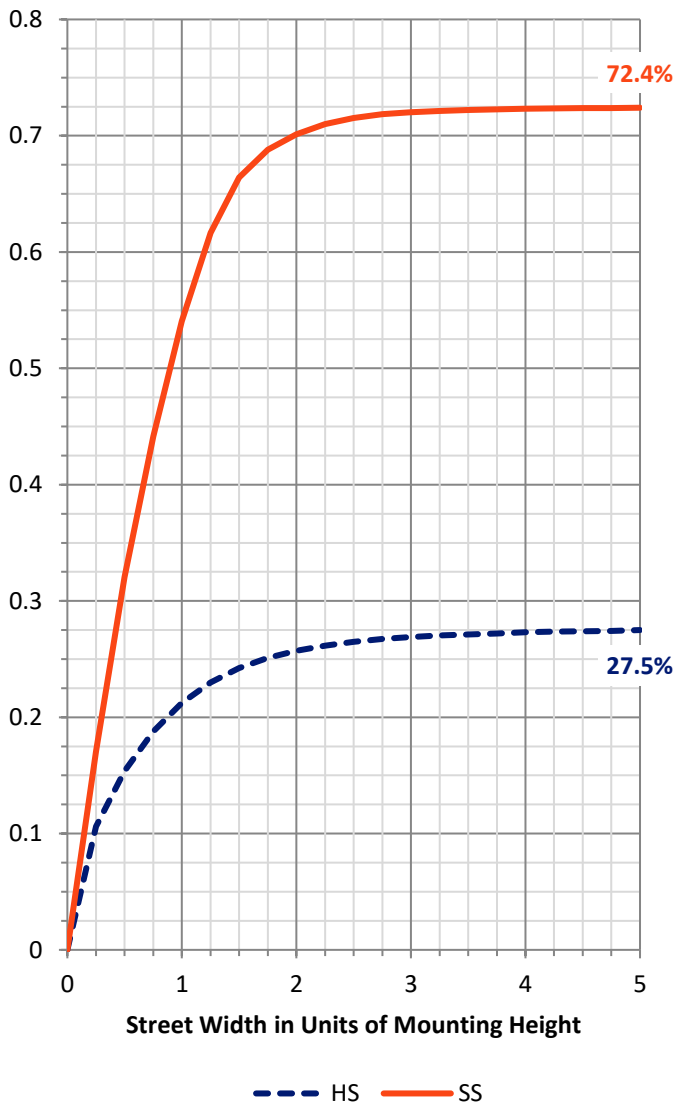
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5608.9	0.0	5608.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	14665.1	0.0	14665.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	20274.0	0.0	20274.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.6	3.4
10°-20°	1573.5	7.8
20°-30°	2210.8	10.9
30°-40°	3090.7	15.2
40°-50°	4184.3	20.6
50°-60°	5096.6	25.1
60°-70°	2654.5	13.1
70°-80°	680.2	3.4
80°-90°	103.8	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°	20274.0	100.0
0°-180°	20274.0	100.0

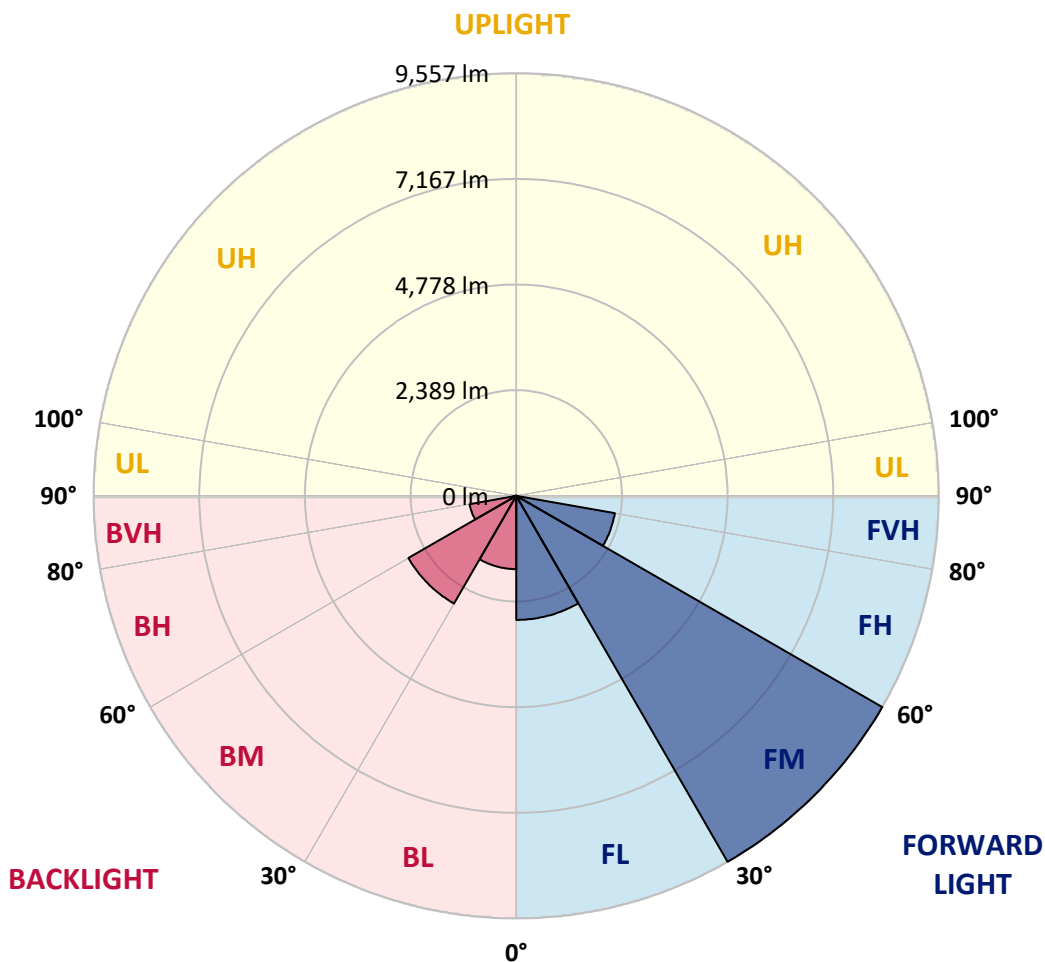


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.2	13.8			
FM (30°-60°)	9556.5	47.1			
FH (60°-80°)	2263.1	11.2			G2/5000
FVH (80°-90°)	39.2	0.2			G1/100
BL (0°-30°)	1657.7	8.2	B3/2500		
BM (30°-60°)	2815.1	13.9	B3/5000		
BH (60°-80°)	1071.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.6	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°	54°	55°	65°	75°	85°
0°	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3
2.5°	8104.4	8073.1	8078.3	8120.0	8067.9	8047.0	8047.0	7945.4	7953.3	7882.9	7864.6
5°	7916.8	7843.8	7893.3	7955.9	7966.3	7987.1	8021.0	7995.0	7922.0	7846.4	7723.9
7.5°	7426.9	7492.0	7510.2	7554.5	7648.3	7734.3	7841.1	7768.2	7765.6	7690.0	7617.1
10°	6996.9	6957.8	7056.8	7121.9	7278.3	7421.7	7585.8	7578.0	7617.1	7531.1	7406.0
12.5°	6569.5	6538.2	6585.1	6733.6	6952.5	7161.0	7356.5	7283.5	7492.0	7476.3	7208.0
15°	6116.1	6139.6	6207.3	6345.3	6632.0	6882.2	7129.7	7132.4	7317.4	7379.9	7020.3
17.5°	5798.1	5772.1	5858.1	6063.9	6319.4	6619.0	6900.4	6957.8	7241.9	7278.3	6963.0
20°	5561.0	5597.5	5709.5	5813.7	6108.3	6470.5	6788.4	6809.2	7226.2	7325.2	6871.8
22.5°	5503.7	5482.8	5519.3	5688.7	5931.1	6324.6	6728.4	6806.6	7223.6	7309.6	6699.8
25°	5443.7	5511.5	5508.9	5678.3	5855.5	6207.3	6778.0	6864.0	7361.7	7390.4	6723.2
27.5°	5579.3	5571.5	5644.4	5657.4	5876.3	6238.5	6882.2	6947.3	7591.0	7567.6	6741.5
30°	5714.8	5675.7	5720.0	5873.7	5975.4	6418.3	7168.9	7163.6	7888.1	7872.4	6798.8
32.5°	5881.5	5863.3	5892.0	6027.4	6199.4	6658.1	7411.2	7565.0	8190.3	8289.4	6996.9
35°	5912.8	5988.3	6056.1	6238.5	6483.5	7046.4	7867.2	7995.0	8539.6	8849.7	7374.7
37.5°	6110.9	6139.6	6298.5	6621.6	6845.7	7565.0	8156.5	8237.3	8857.5	9209.3	7773.4
40°	6322.0	6355.8	6595.5	6934.3	7241.9	7903.7	8427.5	8453.6	8959.1	9485.5	8034.0
42.5°	6608.6	6639.9	6877.0	7301.7	7713.5	8192.9	8667.3	8695.9	8951.3	9803.5	8448.3
45°	6905.6	6981.2	7260.1	7742.2	8112.2	8531.8	8722.0	8839.2	9024.3	10087.5	8784.5
47.5°	7322.6	7393.0	7622.3	8094.0	8526.6	8828.8	8974.7	9089.4	9198.9	10335.0	9000.8
50°	7765.6	7778.7	8057.5	8484.8	8802.7	9165.0	9446.4	9485.5	9428.2	10621.7	9368.2
52.5°	8091.3	8133.1	8349.4	8766.2	9240.6	9686.1	10071.8	10113.5	10001.5	10728.6	9493.3
55°	7551.9	7528.5	7880.3	8435.3	9535.0	10462.7	11023.0	11054.3	10418.4	11059.5	9902.4
57.5°	5837.2	5949.3	6249.0	6918.7	8471.8	10806.7	11757.9	11645.8	10918.8	11226.3	10163.1
60°	4242.4	4216.4	4417.0	4865.3	6384.5	9313.5	11116.8	11231.5	10509.6	10118.7	8380.6
62.5°	3455.4	3418.9	3434.6	3450.2	4120.0	6181.2	8229.4	8226.8	8094.0	7273.1	5652.2
65°	2762.3	2848.3	2856.0	2973.4	3059.3	3692.6	4768.8	5024.2	4375.3	3588.3	2603.3
67.5°	2082.1	2050.9	2155.1	2572.0	2733.6	2665.9	2603.3	2632.0	1871.1	1349.9	1271.7
70°	1227.4	1214.3	1339.5	1792.8	2251.5	2118.6	1962.2	1964.8	1284.7	943.3	1050.2
72.5°	672.3	669.7	695.8	909.5	1279.5	1329.0	1177.9	1214.3	766.2	763.5	820.9
75°	375.3	367.4	359.6	401.3	461.2	487.3	497.7	502.9	526.4	589.0	612.4
77.5°	138.1	132.9	132.9	153.7	195.4	245.0	310.1	315.3	372.6	427.4	450.9
80°	46.9	52.1	70.4	96.4	130.3	174.6	211.1	216.3	263.2	299.6	307.5
82.5°	28.7	31.3	46.9	67.8	93.8	122.4	156.3	158.9	195.4	218.9	229.3
85°	13.0	15.6	26.1	41.7	60.0	80.8	83.4	83.4	80.8	83.4	78.2
87.5°	0.0	0.0	5.2	5.2	5.2	7.8	10.4	7.8	13.0	15.6	15.6
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°	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3	7880.3
2.5°	7809.9	7781.3	7692.6	7614.5	7591.0	7486.8	7333.0	7351.3	7239.2	7291.3	7236.6
5°	7703.1	7606.7	7379.9	7283.5	7030.8	6916.0	6837.9	6642.5	6551.2	6533.0	6454.8
7.5°	7429.5	7369.5	7085.4	6824.9	6556.4	6327.2	6032.7	5832.0	5688.7	5649.6	5535.0
10°	7213.2	7080.2	6686.8	6290.7	5907.6	5508.9	5125.8	4826.2	4680.2	4510.8	4453.5
12.5°	6999.5	6798.8	6267.2	5759.1	5263.9	4761.0	4297.2	3932.3	3614.4	3538.8	3512.8
15°	6866.6	6517.4	5892.0	5279.5	4576.0	3919.3	3455.4	3215.7	3020.3	2939.5	2996.8
17.5°	6692.0	6285.5	5532.4	4716.7	3942.8	3338.2	2949.9	2801.4	2731.0	2738.8	2715.3
20°	6473.1	6066.6	5060.6	4205.9	3377.3	2895.1	2673.6	2619.0	2629.4	2647.6	2639.8
22.5°	6316.8	5800.7	4719.3	3684.8	2918.6	2650.2	2559.0	2519.9	2553.8	2569.4	2556.4
25°	6196.8	5574.1	4305.0	3223.5	2652.9	2512.1	2470.4	2467.8	2519.9	2540.7	2527.7
27.5°	6087.4	5363.0	3893.2	2871.7	2475.7	2405.3	2392.2	2423.5	2457.4	2478.3	2496.4
30°	6022.2	5201.4	3507.6	2577.2	2387.0	2353.1	2329.7	2358.3	2376.6	2397.4	2387.0
32.5°	6084.8	5086.7	3134.9	2410.5	2314.0	2280.2	2311.4	2293.2	2324.4	2342.7	2314.0
35°	6280.3	4985.1	2869.1	2321.8	2230.7	2243.7	2248.9	2241.1	2254.1	2238.5	2272.4
37.5°	6473.1	4948.6	2624.2	2246.3	2191.6	2191.6	2186.3	2170.7	2196.8	2191.6	2207.2
40°	6718.0	4972.1	2415.7	2165.5	2155.1	2149.8	2129.0	2126.4	2116.0	2118.6	2123.8
42.5°	6931.7	5024.2	2295.8	2113.4	2121.2	2131.6	2092.6	2061.3	2074.3	2048.3	2048.3
45°	7158.4	5071.1	2189.0	2076.9	2069.1	2066.5	2035.2	2017.0	2006.5	2009.1	2032.6
47.5°	7515.4	5138.8	2108.2	2027.4	2032.6	1993.5	1985.7	1962.2	1972.6	1988.3	1990.9
50°	7768.2	5282.2	2045.6	1970.0	1988.3	1962.2	1915.4	1904.9	1904.9	1930.9	1925.8
52.5°	7945.4	5482.8	1985.7	1907.6	1915.4	1894.5	1878.9	1855.4	1839.8	1876.3	1894.5
55°	8487.5	5816.4	1970.0	1855.4	1852.8	1832.0	1803.3	1779.8	1772.0	1777.2	1813.7
57.5°	8435.3	5712.2	1920.6	1764.2	1759.0	1730.4	1701.7	1693.9	1691.3	1696.5	1706.9
60°	6848.3	4219.0	1714.7	1660.0	1652.1	1646.9	1618.3	1587.0	1571.3	1587.0	1573.9
62.5°	4531.6	2824.8	1511.4	1534.9	1540.1	1527.1	1480.2	1448.9	1454.1	1472.3	1443.7
65°	2225.5	1660.0	1370.7	1433.2	1438.4	1401.9	1357.7	1321.2	1303.0	1318.6	1305.6
67.5°	1271.7	1269.1	1256.0	1321.2	1318.6	1282.1	1211.7	1180.5	1149.2	1154.4	1146.6
70°	1078.8	1099.7	1125.8	1164.9	1162.3	1120.5	1037.1	1013.7	969.4	964.2	951.2
72.5°	849.5	886.0	943.3	972.0	948.6	896.4	841.7	802.7	763.5	740.1	747.9
75°	630.7	682.7	714.0	732.3	695.8	667.1	622.8	575.9	529.0	508.1	500.3
77.5°	458.7	474.2	502.9	516.0	492.5	463.8	437.8	390.9	346.6	317.9	310.1
80°	320.5	330.9	351.8	351.8	351.8	338.8	304.9	258.0	229.3	203.3	198.1
82.5°	224.1	234.6	255.4	245.0	242.4	226.7	205.9	169.4	138.1	119.8	114.6
85°	78.2	86.0	104.2	125.1	132.9	130.3	117.2	93.8	73.0	60.0	54.7
87.5°	18.2	18.2	20.9	18.2	18.2	20.9	18.2	18.2	18.2	13.0	10.4
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)