

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: P648637

Luminaire Tested: **GALN-SA9B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30130.6 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

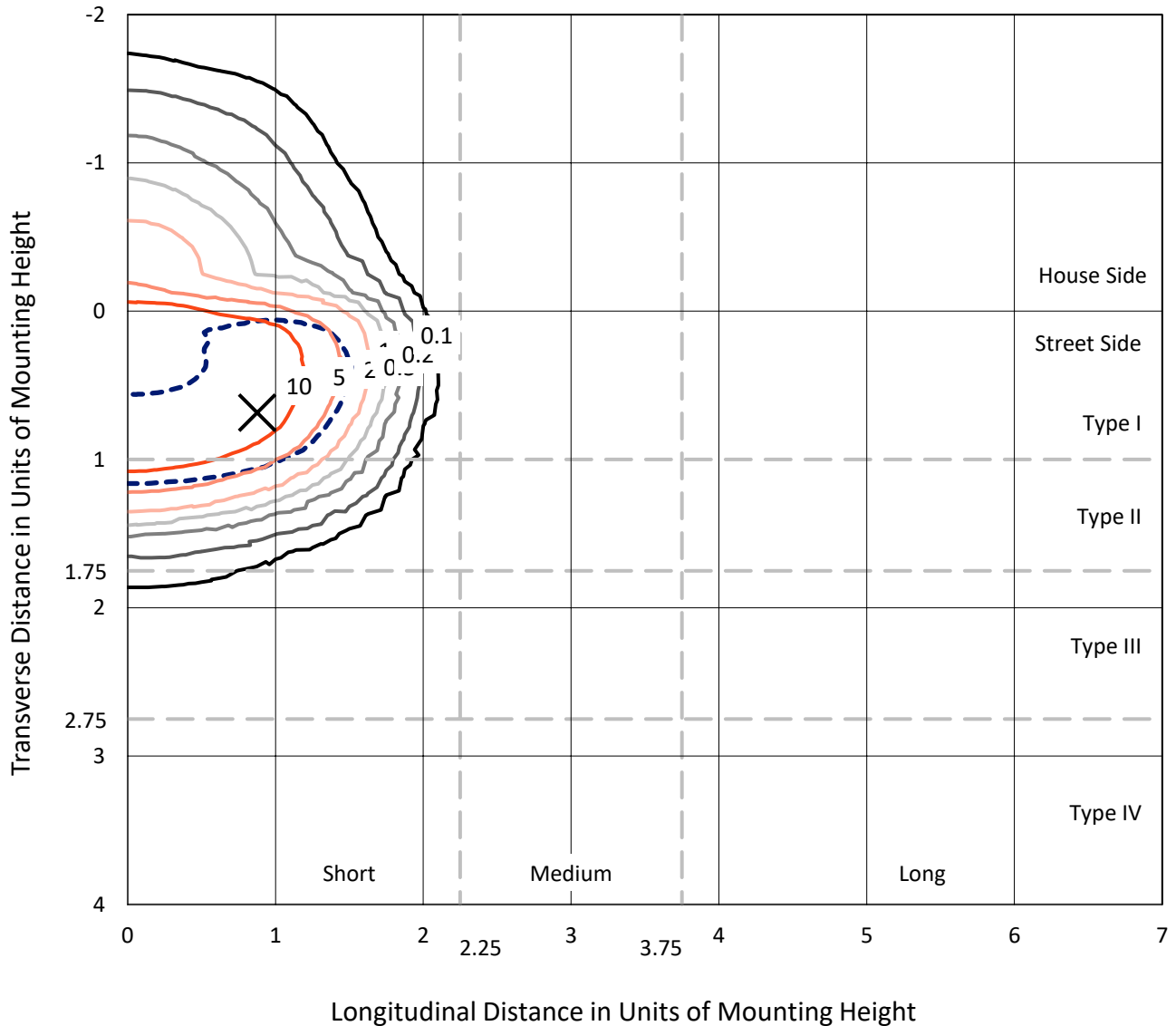
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

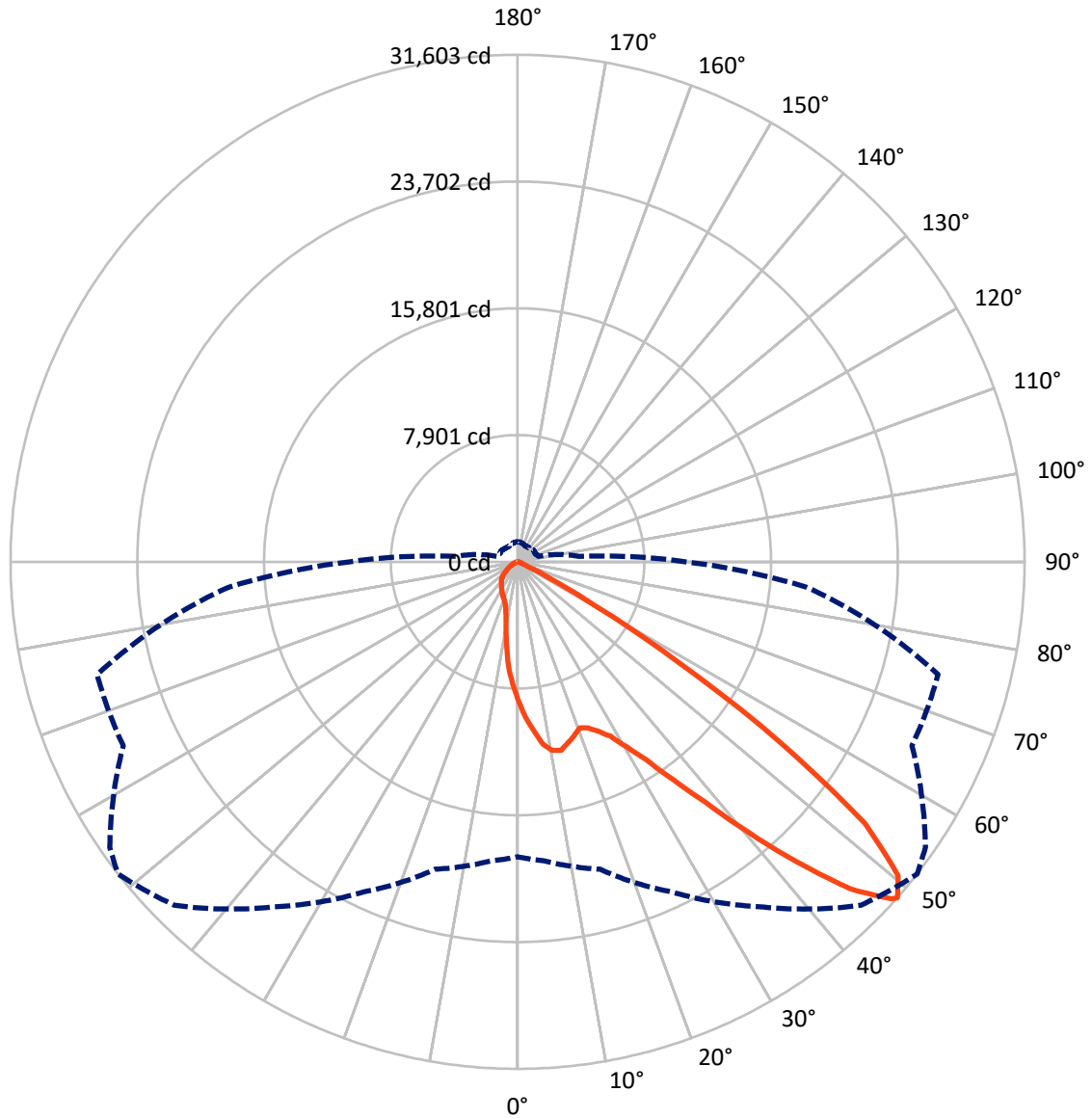
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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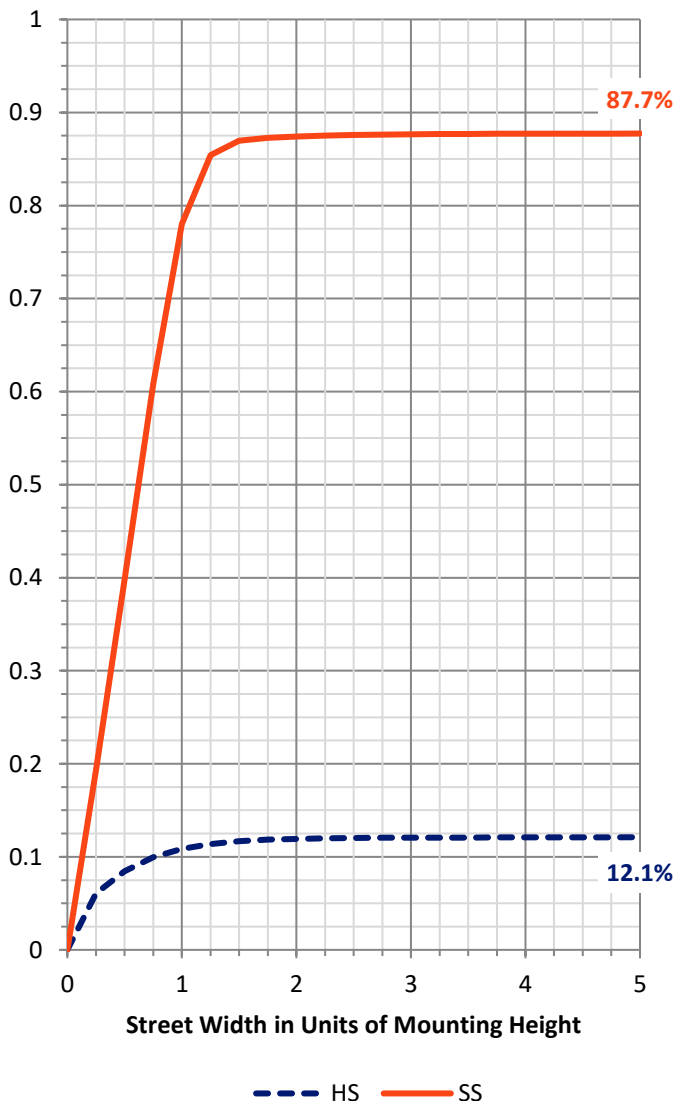
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3668.7	0.0	3668.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	26462.0	0.0	26462.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	30130.6	0.0	30130.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.4	2.6
10°-20°	2081.3	6.9
20°-30°	3553.6	11.8
30°-40°	6544.0	21.7
40°-50°	10162.9	33.7
50°-60°	6116.3	20.3
60°-70°	707.4	2.3
70°-80°	136.9	0.5
80°-90°	31.7	0.1
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°	30130.6	100.0
0°-180°	30130.6	100.0

Coefficient of Utilization

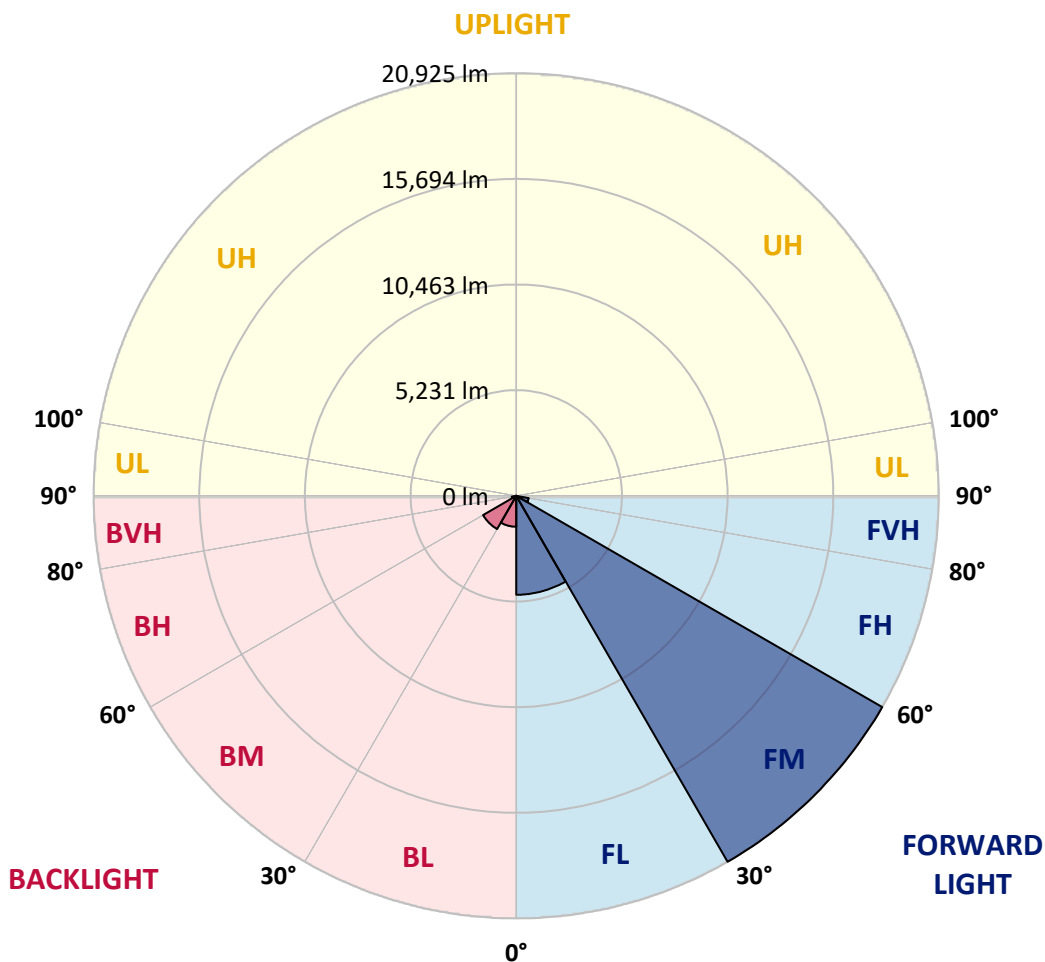


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4898.9	16.3			
FM (30°-60°)	20925.1	69.4			
FH (60°-80°)	622.9	2.1			G0/660
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	1532.5	5.1	B3/2500		
BM (30°-60°)	1898.1	6.3	B2/2500		
BH (60°-80°)	221.4	0.7	B1/500		G1/500
BVH (80°-90°)	16.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2
2.5°	10546.0	10304.4	10326.4	10168.3	10076.0	9926.7	9724.6	9685.1	9465.5	9166.8	8863.7
5°	11494.8	11437.7	11512.3	11283.9	11292.7	11046.7	10572.4	10581.1	10076.0	9588.5	9118.5
7.5°	11556.2	11424.4	11499.1	11701.2	11819.8	11775.9	11507.9	11275.1	10796.4	10080.4	9395.2
10°	10348.4	10598.7	10677.8	11011.6	11486.0	11986.7	11955.9	11969.1	11569.5	10633.8	9632.4
12.5°	9623.6	9456.7	9724.6	9926.7	10642.6	11613.4	12056.9	12153.6	12184.3	11169.7	9869.6
15°	9294.2	9294.2	9338.1	9395.2	9913.5	10809.5	11714.4	11995.5	12658.7	11872.5	10243.0
17.5°	9500.6	9491.8	9553.3	9434.8	9628.0	10317.6	11398.1	11718.8	13190.2	12562.1	10537.2
20°	10128.7	10159.5	10120.0	9777.3	9790.6	10308.8	11046.7	11551.8	13550.4	13159.4	10928.2
22.5°	11002.8	11020.4	10796.4	10423.0	10313.2	10568.0	11248.8	11635.3	13840.2	13875.4	11046.7
25°	12013.0	11942.8	11898.9	11371.7	11038.0	11257.6	11705.6	11929.6	14020.3	14490.4	11385.0
27.5°	13414.2	13273.7	13005.7	12535.8	12289.7	11977.9	12298.6	12667.5	14534.3	15351.3	11753.9
30°	15483.0	15360.0	14837.3	14231.2	13585.5	13278.0	13379.0	13581.1	15461.0	16348.3	12241.4
32.5°	18597.2	18338.0	17582.5	16427.3	15548.9	14701.1	14674.8	14890.0	16291.2	17727.5	12821.2
35°	22027.6	21948.5	20837.3	19647.0	17947.1	16638.2	16660.1	16774.4	17881.2	19537.1	13581.1
37.5°	24307.2	24742.0	24034.9	22756.7	21329.2	19458.1	18983.7	19023.2	20064.2	21680.6	14951.5
40°	26068.5	25699.5	25783.0	25484.4	24509.2	23235.4	22185.7	21979.3	22589.8	24052.4	16313.2
42.5°	25299.9	25317.4	25831.3	26538.5	26780.1	26687.9	25616.2	25225.2	24750.9	25993.9	17608.9
45°	23130.1	23582.5	24250.1	26121.3	27764.0	29305.7	29094.9	28444.8	26244.2	27531.2	18355.6
47.5°	19668.9	19651.3	20745.0	23178.4	26828.4	30438.9	31396.4	30939.6	27302.7	27359.9	18201.9
48°	18390.7	18707.0	19835.8	22699.6	26235.4	30272.0	31602.9	31027.5	27122.7	27131.5	18070.1
50°	13594.3	13537.2	14942.8	18456.6	23433.2	28444.8	30733.2	31181.3	27118.3	25976.3	17147.7
52.5°	7181.4	7427.5	8450.8	11604.5	16567.9	23279.4	27109.5	27807.9	26160.7	24087.6	15821.2
55°	3052.7	2758.4	3544.6	5240.1	9320.5	15553.3	19888.5	21443.4	22119.8	21316.0	13840.2
57.5°	1089.3	1190.3	1370.4	1972.1	3918.0	8512.4	11859.3	13067.2	15324.9	15641.1	9430.4
60°	698.4	711.6	768.7	904.8	1471.4	3281.1	5626.6	6588.5	7611.9	7857.9	4401.1
62.5°	540.3	544.7	571.0	593.0	698.4	1273.8	2112.7	2503.6	2600.3	2235.7	1155.2
65°	452.4	456.8	465.6	465.6	496.3	597.4	737.9	812.6	790.6	781.8	654.4
67.5°	347.0	355.8	373.3	373.3	391.0	364.6	408.5	434.9	492.0	597.4	557.8
70°	272.3	276.7	289.9	298.7	298.7	263.6	294.3	320.6	360.2	443.6	439.3
72.5°	210.9	219.6	228.4	228.4	215.2	180.1	210.9	232.8	259.2	307.5	298.7
75°	162.6	162.6	166.9	136.2	105.4	92.2	127.4	153.7	193.2	202.0	166.9
77.5°	43.9	48.3	43.9	39.5	43.9	65.9	83.5	96.6	123.0	123.0	109.8
80°	0.0	4.4	13.2	26.4	43.9	61.5	74.7	83.5	96.6	105.4	101.0
82.5°	0.0	4.4	13.2	26.4	39.5	48.3	65.9	70.3	79.1	92.2	92.2
85°	0.0	4.4	8.8	17.5	26.4	30.8	30.8	26.4	26.4	21.9	17.5
87.5°	0.0	0.0	4.4	8.8	8.8	13.2	13.2	13.2	13.2	13.2	13.2
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°	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2	8701.2
2.5°	8745.2	8609.0	8402.5	8077.5	7765.6	7563.6	7370.4	7155.1	7036.5	7027.7	6961.9
5°	8850.6	8543.1	8051.1	7493.3	6896.0	6382.1	5863.8	5525.6	5222.5	5055.6	5024.8
7.5°	8907.6	8508.0	7712.9	6777.4	5758.3	4919.4	4339.6	3913.6	3746.7	3623.6	3619.3
10°	9026.3	8446.5	7207.8	5828.7	4568.0	3720.3	3320.6	3127.4	3035.1	3000.0	2947.3
12.5°	9114.1	8332.3	6689.6	4853.5	3610.5	3083.5	2907.7	2863.8	2868.2	2885.7	2863.8
15°	9237.1	8231.2	5991.1	3983.8	3030.7	2776.0	2776.0	2784.7	2846.2	2855.1	2850.6
17.5°	9228.3	8033.6	5270.8	3281.1	2679.3	2644.2	2657.3	2740.8	2780.4	2793.5	2762.8
20°	9333.8	7849.1	4528.5	2802.3	2481.6	2534.4	2622.2	2644.2	2692.5	2701.3	2666.1
22.5°	9303.0	7387.9	3838.9	2424.6	2332.3	2433.3	2521.2	2547.6	2534.4	2508.0	2503.6
25°	9245.9	6992.6	3206.4	2174.2	2222.5	2332.3	2415.8	2367.5	2341.1	2345.5	2349.9
27.5°	9144.8	6491.9	2683.7	1998.5	2073.1	2235.7	2231.3	2213.8	2240.1	2218.2	2240.1
30°	9127.3	5991.1	2253.2	1840.4	1963.4	2082.0	2090.8	2121.5	2152.2	2112.7	2152.2
32.5°	9153.7	5442.1	1945.8	1743.7	1897.5	1901.9	1998.5	2029.2	2007.3	1919.4	1928.2
35°	9355.7	5020.4	1721.8	1691.0	1792.1	1796.4	1888.7	1849.2	1752.5	1699.8	1730.6
37.5°	9781.7	4669.0	1616.3	1642.7	1651.5	1708.6	1713.0	1634.0	1642.7	1638.3	1655.9
40°	10326.4	4401.1	1541.7	1598.8	1590.0	1629.6	1471.4	1515.3	1554.9	1568.0	1576.9
42.5°	10699.8	4207.8	1493.4	1528.6	1511.0	1440.7	1352.9	1396.8	1427.5	1475.8	1484.6
45°	10866.6	4054.1	1436.3	1405.6	1405.6	1278.2	1243.0	1251.8	1322.1	1374.8	1366.0
47.5°	10594.3	3904.8	1335.2	1243.0	1273.8	1168.4	1128.9	1128.9	1203.5	1269.4	1256.2
48°	10488.9	3843.3	1339.6	1207.9	1229.9	1150.8	1111.2	1102.5	1185.9	1247.4	1247.4
50°	9966.2	3614.9	1225.5	1111.2	1067.3	1058.5	1032.2	1041.0	1093.7	1150.8	1150.8
52.5°	8947.2	3122.9	1036.6	953.1	874.1	926.8	940.0	922.4	948.8	1001.5	997.1
55°	7467.0	2398.3	830.1	790.6	729.1	786.2	812.6	790.6	764.3	803.8	803.8
57.5°	4783.3	1291.3	663.3	672.0	610.5	667.7	689.6	636.9	588.6	619.4	614.9
60°	2156.6	773.1	544.7	531.5	492.0	557.8	593.0	531.5	465.6	487.6	509.5
62.5°	808.2	549.0	412.9	404.1	395.3	456.8	474.3	426.0	360.2	373.3	377.7
65°	593.0	483.2	329.4	298.7	316.3	360.2	351.4	303.1	259.2	259.2	267.9
67.5°	505.1	421.6	267.9	232.8	232.8	237.2	219.6	193.2	180.1	188.9	197.6
70°	395.3	333.8	210.9	180.1	162.6	144.9	127.4	123.0	109.8	123.0	118.6
72.5°	254.8	224.0	162.6	136.2	123.0	101.0	83.5	79.1	65.9	61.5	61.5
75°	136.2	136.2	127.4	109.8	96.6	79.1	65.9	52.7	35.2	26.4	26.4
77.5°	96.6	105.4	114.2	105.4	87.9	65.9	52.7	35.2	17.5	8.8	8.8
80°	92.2	105.4	114.2	101.0	87.9	65.9	48.3	26.4	13.2	4.4	4.4
82.5°	83.5	96.6	105.4	92.2	79.1	57.1	43.9	26.4	13.2	4.4	4.4
85°	17.5	21.9	26.4	26.4	30.8	39.5	30.8	21.9	8.8	4.4	4.4
87.5°	13.2	13.2	13.2	13.2	13.2	13.2	8.8	8.8	4.4	4.4	4.4
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)