

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: P531120

Luminaire Tested: **GALN-SA6B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531120
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-SA6B-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 20984 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

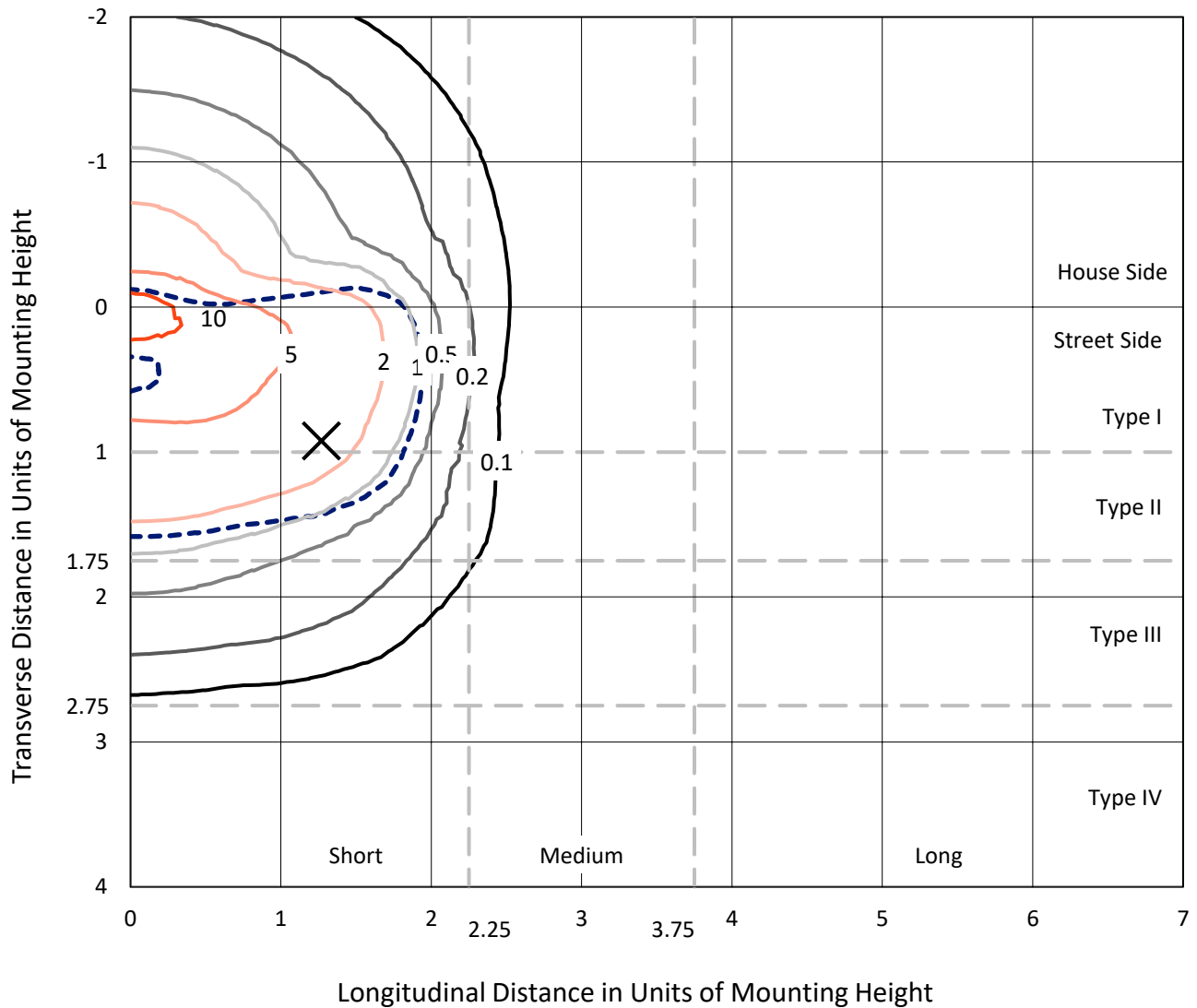
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

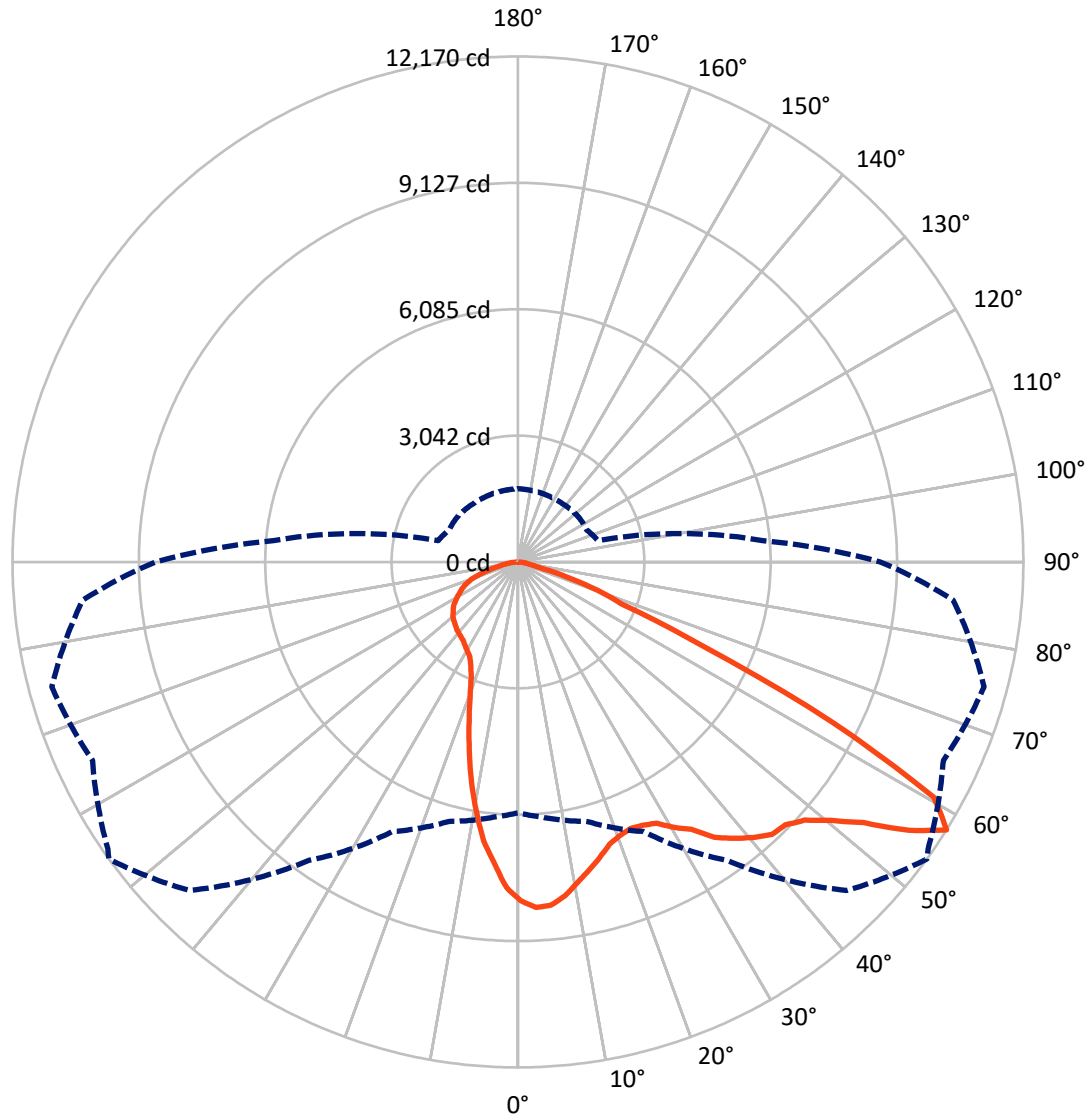
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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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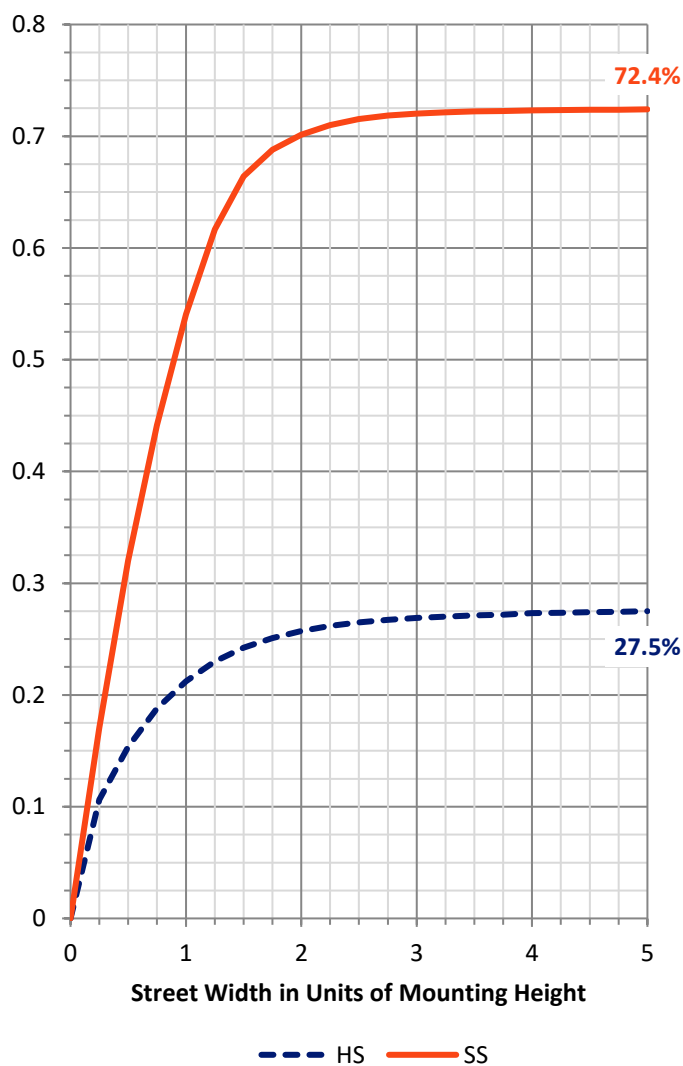
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5805.3	0.0	5805.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	15178.7	0.0	15178.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	20984.0	0.0	20984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.4	3.4
10°-20°	1628.6	7.8
20°-30°	2288.2	10.9
30°-40°	3199.0	15.2
40°-50°	4330.8	20.6
50°-60°	5275.1	25.1
60°-70°	2747.5	13.1
70°-80°	704.0	3.4
80°-90°	107.4	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°	20984.0	100.0
0°-180°	20984.0	100.0

Coefficient of Utilization



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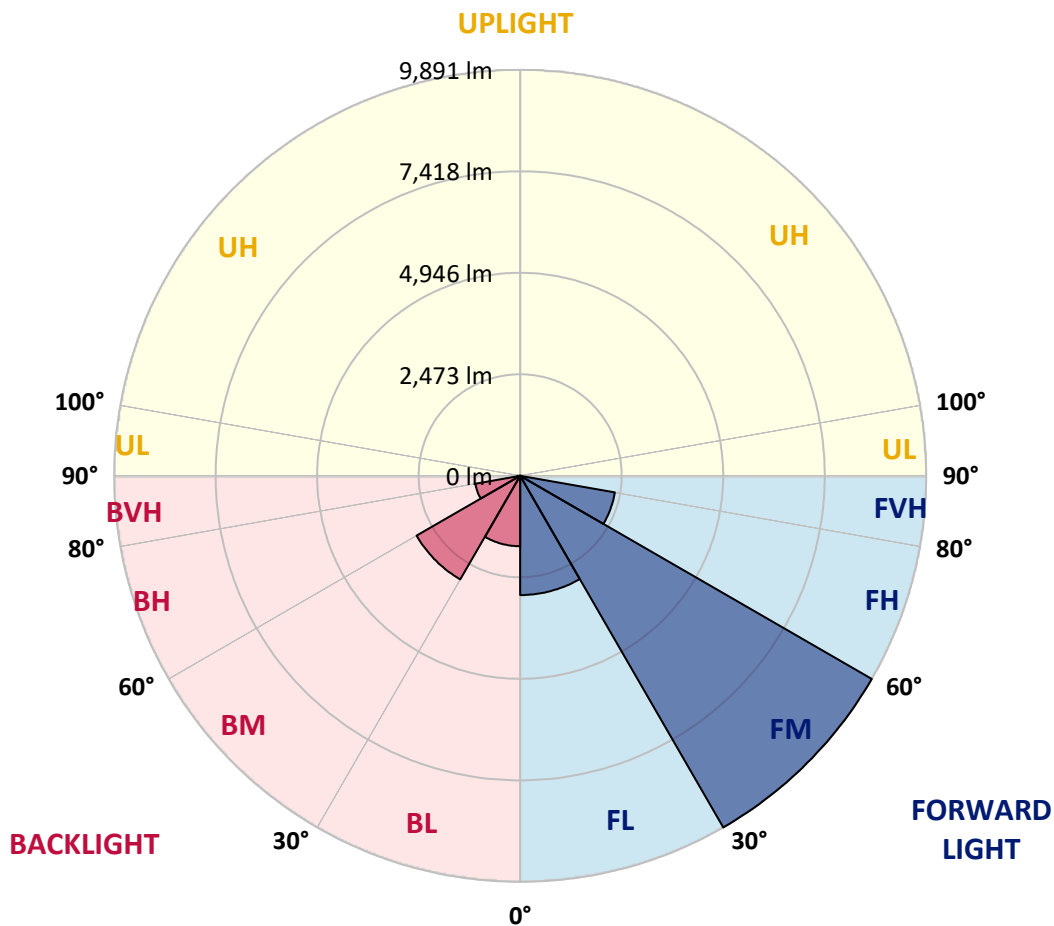
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2904.5	13.8			
FM (30°-60°)	9891.2	47.1			
FH (60°-80°)	2342.4	11.2			G2/5000
FVH (80°-90°)	40.6	0.2			G1/100
BL (0°-30°)	1715.8	8.2	B3/2500		
BM (30°-60°)	2913.6	13.9	B3/5000		
BH (60°-80°)	1109.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	66.8	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°	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2
2.5°	8388.2	8355.8	8361.2	8404.4	8350.4	8328.9	8328.9	8223.7	8231.8	8158.9	8140.1
5°	8194.0	8118.5	8169.7	8234.5	8245.2	8266.8	8301.9	8274.9	8199.4	8121.2	7994.4
7.5°	7686.9	7754.4	7773.2	7819.1	7916.2	8005.2	8115.8	8040.3	8037.6	7959.3	7883.8
10°	7241.9	7201.4	7303.9	7371.4	7533.2	7681.5	7851.5	7843.4	7883.8	7794.8	7665.4
12.5°	6799.6	6767.2	6815.7	6969.5	7196.0	7411.8	7614.1	7538.6	7754.4	7738.2	7460.4
15°	6330.3	6354.5	6424.7	6567.6	6864.3	7123.2	7379.5	7382.2	7573.7	7638.4	7266.2
17.5°	6001.2	5974.2	6063.2	6276.3	6540.6	6850.8	7142.1	7201.4	7495.4	7533.2	7206.8
20°	5755.8	5793.5	5909.5	6017.4	6322.2	6697.1	7026.1	7047.7	7479.3	7581.7	7112.4
22.5°	5696.4	5674.8	5712.6	5887.9	6138.8	6546.0	6964.1	7045.0	7476.6	7565.6	6934.4
25°	5634.4	5704.5	5701.8	5877.1	6060.5	6424.7	7015.3	7104.3	7619.5	7649.2	6958.7
27.5°	5774.6	5766.5	5842.1	5855.6	6082.1	6457.0	7123.2	7190.7	7856.9	7832.6	6977.6
30°	5914.9	5874.4	5920.3	6079.4	6184.6	6643.1	7419.9	7414.5	8164.3	8148.1	7036.9
32.5°	6087.5	6068.6	6098.3	6238.6	6416.6	6891.3	7670.7	7829.9	8477.2	8579.7	7241.9
35°	6119.9	6198.1	6268.2	6457.0	6710.6	7293.1	8142.8	8274.9	8838.6	9159.6	7633.0
37.5°	6324.9	6354.5	6519.1	6853.5	7085.5	7829.9	8442.1	8525.8	9167.7	9531.8	8045.7
40°	6543.3	6578.4	6826.5	7177.2	7495.4	8180.5	8722.6	8749.6	9272.9	9817.7	8315.4
42.5°	6840.0	6872.4	7117.8	7557.5	7983.6	8479.9	8970.8	9000.5	9264.8	10146.8	8744.2
45°	7147.5	7225.7	7514.3	8013.3	8396.3	8830.5	9027.4	9148.8	9340.3	10440.7	9092.2
47.5°	7579.0	7651.9	7889.2	8377.4	8825.1	9138.0	9289.1	9407.7	9521.0	10697.0	9316.0
50°	8037.6	8051.1	8339.6	8782.0	9111.0	9485.9	9777.2	9817.7	9758.4	10993.7	9696.3
52.5°	8374.7	8417.9	8641.7	9073.3	9564.2	10025.4	10424.6	10467.7	10351.7	11104.2	9825.8
55°	7816.4	7792.1	8156.2	8730.7	9868.9	10829.1	11409.0	11441.4	10783.3	11446.8	10249.2
57.5°	6041.7	6157.6	6467.8	7161.0	8768.5	11185.2	12169.6	12053.7	11301.1	11619.4	10519.0
60°	4391.0	4364.0	4571.7	5035.6	6608.1	9639.7	11506.1	11624.8	10877.7	10473.1	8674.1
62.5°	3576.4	3538.7	3554.9	3571.1	4264.2	6397.7	8517.7	8515.0	8377.4	7527.8	5850.2
65°	2859.0	2948.0	2956.1	3077.5	3166.5	3821.9	4935.8	5200.1	4528.5	3714.0	2694.5
67.5°	2155.0	2122.7	2230.6	2662.1	2829.3	2759.2	2694.5	2724.1	1936.6	1397.1	1316.2
70°	1270.4	1256.9	1386.3	1855.7	2330.4	2192.8	2031.0	2033.7	1329.7	976.4	1087.0
72.5°	695.9	693.2	720.1	941.3	1324.3	1375.6	1219.1	1256.9	793.0	790.3	849.6
75°	388.4	380.3	372.2	415.4	477.4	504.4	515.2	520.6	544.8	609.6	633.8
77.5°	142.9	137.6	137.6	159.1	202.3	253.5	321.0	326.4	385.7	442.3	466.6
80°	48.5	53.9	72.8	99.8	134.9	180.7	218.5	223.9	272.4	310.2	318.3
82.5°	29.7	32.4	48.5	70.1	97.1	126.8	161.8	164.5	202.3	226.6	237.4
85°	13.5	16.2	27.0	43.2	62.0	83.6	86.3	86.3	83.6	86.3	80.9
87.5°	0.0	0.0	5.4	5.4	5.4	8.1	10.8	8.1	13.5	16.2	16.2
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°	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2	8156.2
2.5°	8083.4	8053.7	7962.0	7881.1	7856.9	7749.0	7589.8	7608.7	7492.7	7546.7	7490.0
5°	7972.8	7873.0	7638.4	7538.6	7277.0	7158.3	7077.4	6875.1	6780.7	6761.8	6680.9
7.5°	7689.6	7627.6	7333.6	7063.9	6786.1	6548.7	6243.9	6036.3	5887.9	5847.5	5728.8
10°	7465.8	7328.2	6920.9	6511.0	6114.5	5701.8	5305.3	4995.2	4844.1	4668.8	4609.5
12.5°	7244.6	7036.9	6486.7	5960.7	5448.3	4927.7	4447.6	4070.0	3741.0	3662.8	3635.8
15°	7107.0	6745.6	6098.3	5464.5	4736.2	4056.5	3576.4	3328.3	3126.0	3042.4	3101.7
17.5°	6926.3	6505.6	5726.1	4881.9	4080.8	3455.1	3053.2	2899.5	2826.6	2834.7	2810.5
20°	6699.8	6279.0	5237.9	4353.2	3495.5	2996.6	2767.3	2710.7	2721.4	2740.3	2732.2
22.5°	6537.9	6003.9	4884.6	3813.8	3020.8	2743.0	2648.6	2608.2	2643.2	2659.4	2645.9
25°	6413.9	5769.2	4455.7	3336.4	2745.7	2600.1	2556.9	2554.2	2608.2	2629.7	2616.3
27.5°	6300.6	5550.8	4029.6	2972.3	2562.3	2489.5	2476.0	2508.4	2543.4	2565.0	2583.9
30°	6233.2	5383.6	3630.4	2667.5	2470.6	2435.5	2411.3	2440.9	2459.8	2481.4	2470.6
32.5°	6297.9	5264.9	3244.7	2494.9	2395.1	2360.0	2392.4	2373.5	2405.9	2424.8	2395.1
35°	6500.2	5159.7	2969.6	2403.2	2308.8	2322.3	2327.7	2319.6	2333.1	2316.9	2351.9
37.5°	6699.8	5121.9	2716.0	2325.0	2268.3	2268.3	2262.9	2246.7	2273.7	2268.3	2284.5
40°	6953.3	5146.2	2500.3	2241.3	2230.6	2225.2	2203.6	2200.9	2190.1	2192.8	2198.2
42.5°	7174.5	5200.1	2376.2	2187.4	2195.5	2206.3	2165.8	2133.5	2146.9	2120.0	2120.0
45°	7409.1	5248.7	2265.6	2149.6	2141.6	2138.9	2106.5	2087.6	2076.8	2079.5	2103.8
47.5°	7778.6	5318.8	2182.0	2098.4	2103.8	2063.3	2055.2	2031.0	2041.8	2057.9	2060.6
50°	8040.3	5467.2	2117.3	2039.1	2057.9	2031.0	1982.4	1971.6	1971.6	1998.6	1993.2
52.5°	8223.7	5674.8	2055.2	1974.3	1982.4	1960.8	1944.7	1920.4	1904.2	1942.0	1960.8
55°	8784.7	6020.1	2039.1	1920.4	1917.7	1896.1	1866.4	1842.2	1834.1	1839.5	1877.2
57.5°	8730.7	5912.2	1987.8	1826.0	1820.6	1790.9	1761.3	1753.2	1750.5	1755.9	1766.6
60°	7088.2	4366.7	1774.7	1718.1	1710.0	1704.6	1674.9	1642.6	1626.4	1642.6	1629.1
62.5°	4690.4	2923.7	1564.4	1588.6	1594.0	1580.5	1532.0	1499.6	1505.0	1523.9	1494.2
65°	2303.4	1718.1	1418.7	1483.4	1488.8	1451.1	1405.2	1367.5	1348.6	1364.8	1351.3
67.5°	1316.2	1313.5	1300.0	1367.5	1364.8	1327.0	1254.2	1221.8	1189.5	1194.8	1186.8
70°	1116.6	1138.2	1165.2	1205.6	1202.9	1159.8	1073.5	1049.2	1003.3	998.0	984.5
72.5°	879.3	917.0	976.4	1006.0	981.8	927.8	871.2	830.7	790.3	766.0	774.1
75°	652.7	706.7	739.0	757.9	720.1	690.5	644.6	596.1	547.5	525.9	517.9
77.5°	474.7	490.9	520.6	534.0	509.8	480.1	453.1	404.6	358.7	329.1	321.0
80°	331.8	342.5	364.1	364.1	364.1	350.6	315.6	267.0	237.4	210.4	205.0
82.5°	232.0	242.7	264.3	253.5	250.8	234.7	213.1	175.3	142.9	124.1	118.7
85°	80.9	89.0	107.9	129.5	137.6	134.9	121.4	97.1	75.5	62.0	56.6
87.5°	18.9	18.9	21.6	18.9	18.9	21.6	18.9	18.9	18.9	13.5	10.8
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)