

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: P652000

Luminaire Tested: **GALN-SA7A-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652000
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-SA7A-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA 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: 22705.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 215
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

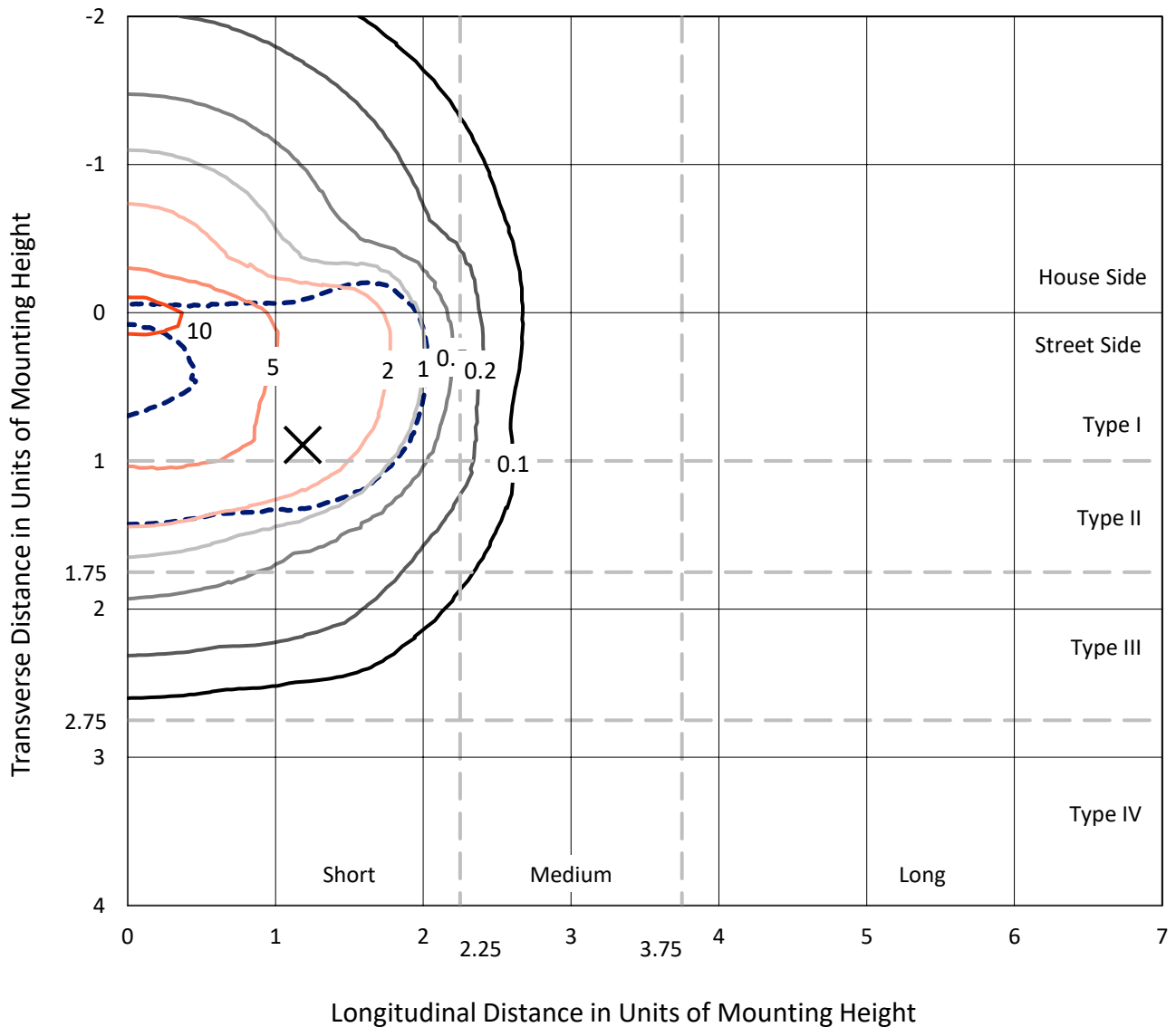




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Iso-Footcandle Lines of Horizontal Illumination

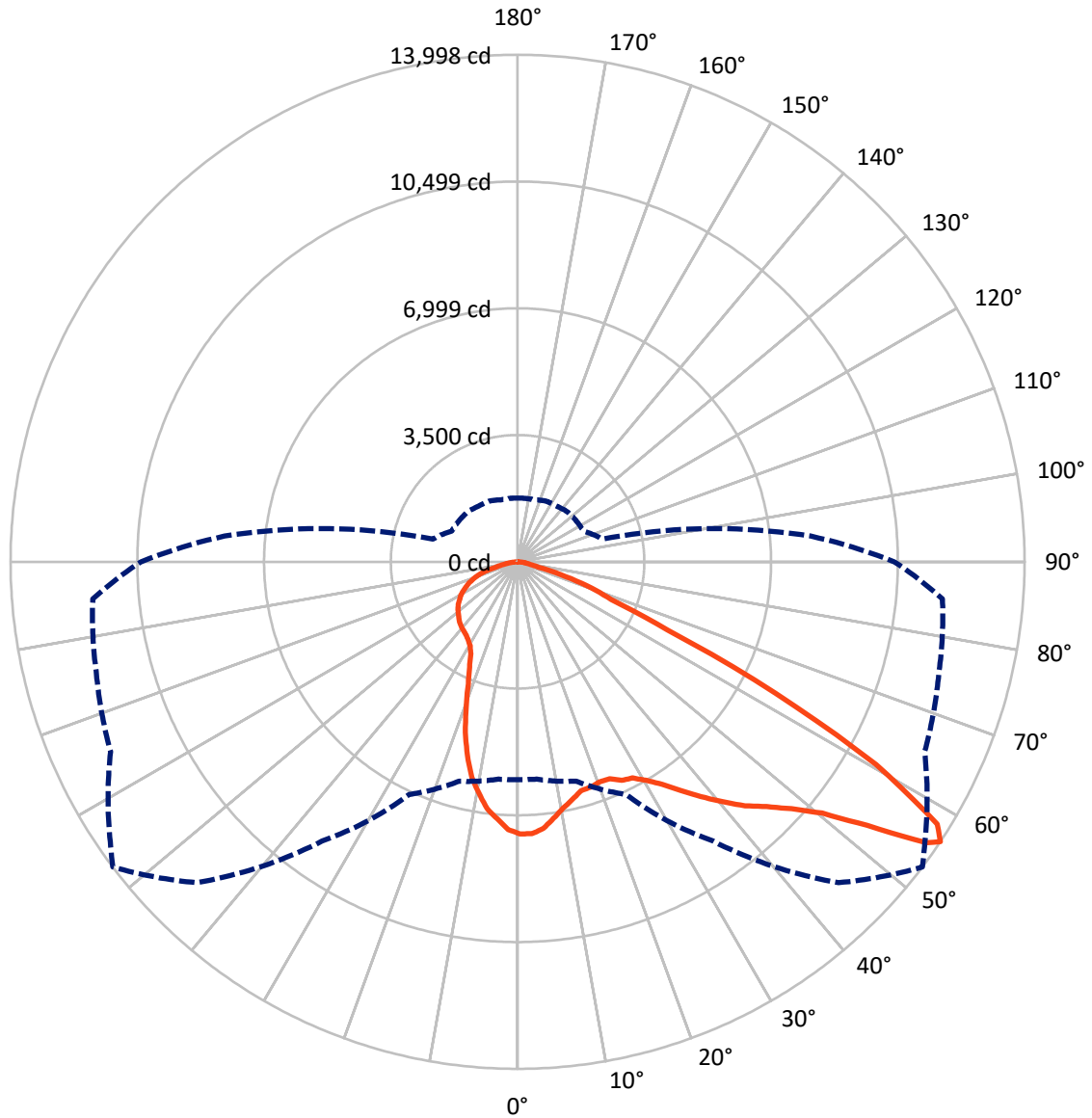
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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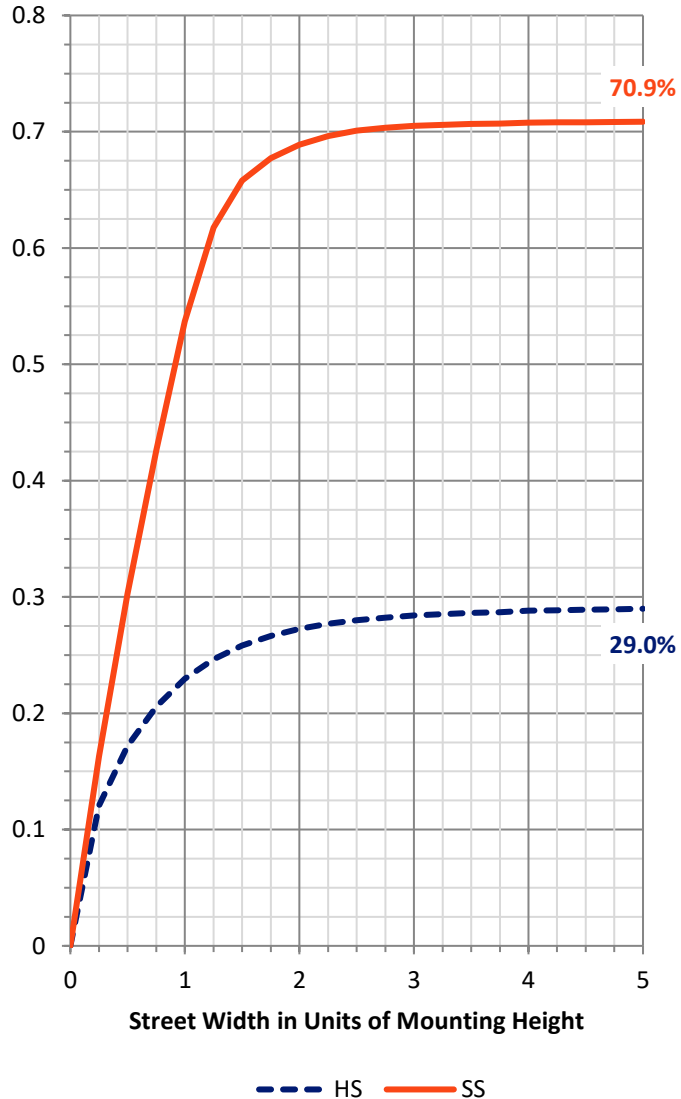
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6625.9	0.0	6625.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	16079.4	0.0	16079.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	22705.3	0.0	22705.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.0	2.9
10°-20°	1660.9	7.3
20°-30°	2449.2	10.8
30°-40°	3499.4	15.4
40°-50°	4816.4	21.2
50°-60°	5691.7	25.1
60°-70°	3033.3	13.4
70°-80°	769.5	3.4
80°-90°	120.0	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°	22705.3	100.0
0°-180°	22705.3	100.0

Coefficient of Utilization



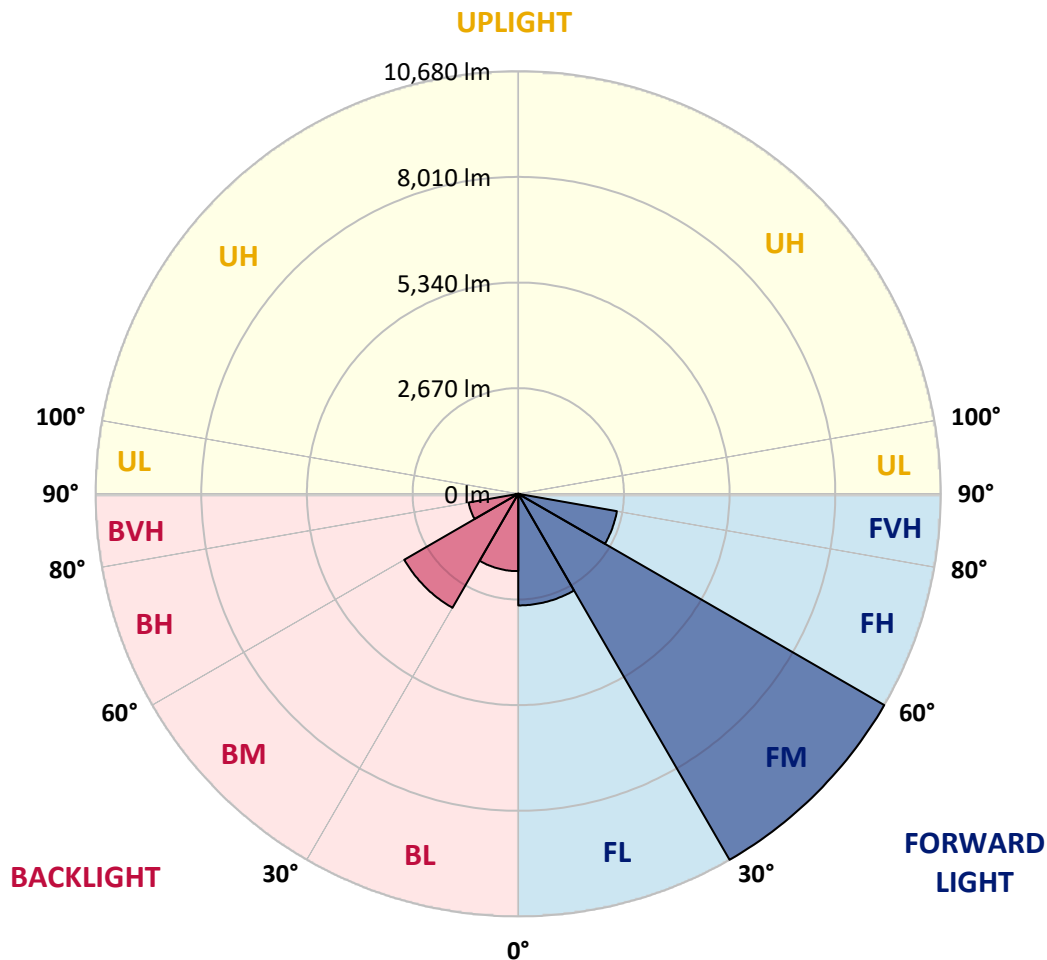
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2820.8	12.4			
FM (30°-60°)	10680.1	47.0			
FH (60°-80°)	2530.2	11.1			G2/5000
FVH (80°-90°)	48.2	0.2			G1/100
BL (0°-30°)	1954.3	8.6	B3/2500		
BM (30°-60°)	3327.3	14.7	B3/5000		
BH (60°-80°)	1272.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	71.8	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°	53°	55°	65°	75°	85°
0°	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8
2.5°	7418.6	7354.5	7392.4	7377.8	7497.3	7532.2	7514.8	7529.3	7596.2	7564.2	7497.3
5°	6932.2	7022.5	7039.9	7083.7	7153.5	7290.5	7398.2	7427.4	7459.4	7607.9	7593.4
7.5°	6489.5	6550.6	6518.6	6646.8	6798.2	7019.6	7150.6	7174.0	7468.2	7549.7	7610.9
10°	6209.9	6148.7	6294.3	6329.3	6501.1	6754.5	6911.8	7007.9	7275.9	7599.2	7637.0
12.5°	5950.6	5930.2	6017.6	6116.7	6308.8	6571.0	6731.2	6769.0	7182.6	7523.5	7701.1
15°	5758.4	5735.1	5822.5	5895.2	6119.5	6352.6	6556.4	6664.3	7080.7	7479.8	7645.8
17.5°	5606.9	5604.0	5653.5	5784.6	6014.7	6209.9	6538.9	6544.8	7028.3	7546.8	7692.4
20°	5598.2	5595.3	5604.0	5749.7	5959.3	6198.2	6483.6	6536.1	7028.3	7500.1	7695.3
22.5°	5671.0	5624.4	5676.8	5770.0	5921.5	6218.6	6504.0	6620.5	7197.3	7730.3	7826.3
25°	5787.5	5799.1	5828.3	5860.3	5947.7	6265.2	6684.6	6780.7	7395.3	7928.4	8007.0
27.5°	6000.1	5994.3	6005.9	6023.4	6099.2	6308.8	6757.4	7005.0	7808.9	8280.7	8202.1
30°	6311.8	6291.4	6338.0	6399.2	6329.3	6448.7	6999.2	7185.6	8193.4	8636.1	8420.6
32.5°	6594.3	6670.1	6757.4	6783.7	6699.2	6722.4	7319.6	7508.9	8513.8	9073.0	8688.5
35°	6946.7	7007.9	7124.4	7205.9	7191.4	7121.5	7756.5	8007.0	8976.9	9393.4	8971.0
37.5°	7290.5	7363.3	7555.5	7797.2	7663.3	7631.2	8222.5	8429.3	9119.6	9565.3	9177.8
40°	7843.8	7841.0	8173.0	8298.2	8417.7	8362.3	8706.0	8775.9	9195.3	9527.4	9183.7
42.5°	8493.4	8452.6	8790.5	8985.7	9140.0	9145.8	9209.9	9186.6	9230.3	9335.2	9122.5
45°	9110.9	9198.3	9539.0	9888.6	10043.0	10060.4	9635.2	9591.4	9291.5	9279.8	9006.0
47.5°	9865.3	9885.6	10165.3	10625.4	10983.7	10861.4	10185.7	10089.6	9559.4	9649.7	9201.2
50°	9908.9	10060.4	10310.9	10852.7	11953.6	11921.6	10899.3	10718.7	9990.5	10174.0	9745.8
52.5°	8994.4	8959.4	9256.6	10142.0	11880.8	12976.0	12081.8	11650.7	10916.8	10776.9	10628.4
55°	6853.6	6935.1	7197.3	8091.4	10316.7	12990.6	13692.5	13340.1	11907.0	11668.2	11496.4
56°	6011.8	6023.4	6271.0	7086.6	9413.8	12527.5	13998.4	13712.9	12399.3	12035.2	11773.1
57.5°	4983.6	4916.6	5044.7	5490.4	7945.8	11548.8	13663.4	13943.0	12976.0	12431.3	12067.3
60°	3923.3	3908.8	3856.4	3938.0	5021.4	8700.2	11374.0	12003.2	12917.8	12058.5	11557.5
62.5°	3204.0	3131.1	3236.0	3352.5	3489.4	5397.2	7992.4	8362.3	10255.6	9626.4	8682.7
65°	2484.5	2449.6	2580.6	2959.3	3040.8	3428.3	4552.5	4837.9	6055.5	5947.7	5237.0
67.5°	1709.8	1715.6	1829.2	2405.8	2819.5	2784.6	2787.4	2936.0	3160.2	2347.7	2044.7
70°	1083.5	1080.6	1141.7	1549.5	2269.0	2292.3	2175.8	2132.1	2021.4	1223.3	1296.1
72.5°	696.1	675.7	707.8	856.3	1173.8	1357.3	1398.1	1424.3	1170.9	961.2	1042.8
75°	393.3	372.8	361.2	399.1	463.1	536.0	588.4	605.9	678.7	728.1	771.9
77.5°	119.4	107.7	131.1	174.8	230.1	308.7	375.8	387.4	457.3	515.5	559.3
80°	52.4	58.3	81.6	116.5	163.1	218.5	265.1	282.5	329.2	372.8	384.5
82.5°	32.0	35.0	55.3	78.6	113.6	154.4	189.3	195.1	241.8	276.7	285.4
85°	11.7	14.5	29.1	46.6	72.8	99.1	99.1	107.7	99.1	99.1	107.7
87.5°	0.0	0.0	2.9	5.8	5.8	8.7	11.7	11.7	14.5	17.5	20.4
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°	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8	7511.8
2.5°	7532.2	7517.6	7494.3	7409.9	7401.1	7374.9	7229.3	7205.9	7229.3	7159.3	7165.2
5°	7517.6	7561.3	7386.6	7302.1	7144.8	7031.2	6900.2	6833.1	6713.7	6638.0	6722.4
7.5°	7581.7	7564.2	7345.8	7162.3	6926.4	6638.0	6407.9	6276.8	6067.1	6008.9	6052.6
10°	7558.4	7465.2	7208.9	6967.2	6521.5	6268.1	5895.2	5534.1	5336.1	5234.1	5219.5
12.5°	7526.4	7500.1	7072.0	6655.5	6186.6	5653.5	5129.3	4788.5	4465.1	4325.3	4345.7
15°	7564.2	7342.9	6815.7	6288.5	5665.1	4966.1	4401.0	3961.3	3737.0	3646.7	3646.7
17.5°	7546.8	7267.2	6693.4	5877.8	5088.5	4261.3	3640.9	3375.8	3282.6	3282.6	3308.8
20°	7555.5	7316.7	6445.8	5467.1	4406.9	3588.5	3136.9	3040.8	3081.6	3096.2	3110.8
22.5°	7605.0	7153.5	6204.1	5015.6	3774.8	3070.0	2848.6	2851.5	2924.3	3003.0	2988.4
25°	7666.2	7089.5	5909.9	4567.1	3291.3	2816.6	2746.6	2738.0	2793.3	2834.0	2839.9
27.5°	7613.7	6978.8	5609.8	4007.9	2895.2	2647.6	2633.1	2638.9	2656.4	2738.0	2711.7
30°	7785.6	7010.8	5234.1	3538.9	2676.7	2592.3	2574.8	2566.1	2592.3	2615.6	2595.2
32.5°	7998.2	6897.2	4954.5	3087.5	2569.0	2551.5	2516.5	2504.9	2519.5	2496.2	2507.9
35°	8091.4	6876.9	4590.4	2764.1	2484.5	2469.9	2449.6	2446.6	2449.6	2429.1	2411.7
37.5°	8143.9	6973.0	4173.9	2615.6	2432.1	2446.6	2400.0	2394.2	2341.8	2353.5	2362.2
40°	8234.1	6824.4	3836.0	2472.9	2400.0	2370.9	2330.2	2321.4	2286.4	2266.1	2286.4
42.5°	8103.1	6780.7	3503.9	2411.7	2353.5	2321.4	2292.3	2242.8	2231.1	2213.7	2202.0
45°	7998.2	6530.3	3206.9	2336.0	2298.1	2280.6	2225.3	2172.9	2129.2	2146.7	2120.4
47.5°	8076.9	6442.8	2912.7	2271.9	2222.3	2202.0	2146.7	2105.9	2062.2	2041.8	2036.0
50°	8391.4	6606.0	2665.1	2225.3	2158.3	2146.7	2073.8	2027.2	1986.4	1971.9	1977.7
52.5°	9142.9	7051.6	2496.2	2129.2	2097.1	2044.7	2003.9	1945.7	1919.5	1872.8	1902.0
55°	10095.4	7776.9	2452.4	2038.9	2021.4	1974.8	1919.5	1875.8	1826.2	1788.4	1779.6
56°	10401.2	8123.5	2417.5	2003.9	1974.8	1948.6	1875.8	1849.5	1770.9	1762.1	1756.3
57.5°	10648.7	8429.3	2423.3	1936.9	1907.8	1884.5	1840.8	1776.7	1724.3	1692.3	1706.8
60°	10089.6	7890.4	2312.7	1835.0	1829.2	1785.4	1724.3	1695.2	1631.1	1593.3	1584.5
62.5°	7500.1	5356.4	1875.8	1704.0	1701.0	1654.4	1584.5	1552.5	1540.8	1488.4	1488.4
65°	4319.5	3358.4	1622.4	1596.1	1572.8	1526.2	1456.4	1430.1	1401.0	1383.5	1369.0
67.5°	1843.7	1741.8	1473.9	1470.9	1444.7	1386.5	1316.5	1275.8	1237.9	1203.0	1220.4
70°	1336.9	1357.3	1331.1	1316.5	1284.5	1211.7	1150.5	1101.0	1042.8	1019.5	1037.0
72.5°	1060.2	1103.9	1141.7	1144.7	1106.8	1022.3	955.4	888.3	824.3	792.2	806.9
75°	803.9	833.0	870.9	879.6	824.3	766.1	702.0	632.0	582.6	544.6	550.5
77.5°	579.6	573.8	608.7	602.9	576.7	536.0	477.7	413.6	358.3	323.3	326.2
80°	396.1	404.9	425.3	422.4	390.3	364.1	320.4	267.9	227.2	198.1	192.3
82.5°	276.7	291.2	308.7	294.2	267.9	241.8	209.7	171.8	139.8	116.5	110.7
85°	99.1	113.6	131.1	139.8	148.5	142.7	119.4	96.1	69.9	58.3	55.3
87.5°	20.4	23.3	26.2	26.2	26.2	23.3	20.4	20.4	17.5	8.7	8.7
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)