

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: P650845

Luminaire Tested: **GALN-SA4C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650845
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-SA4C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 19824.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

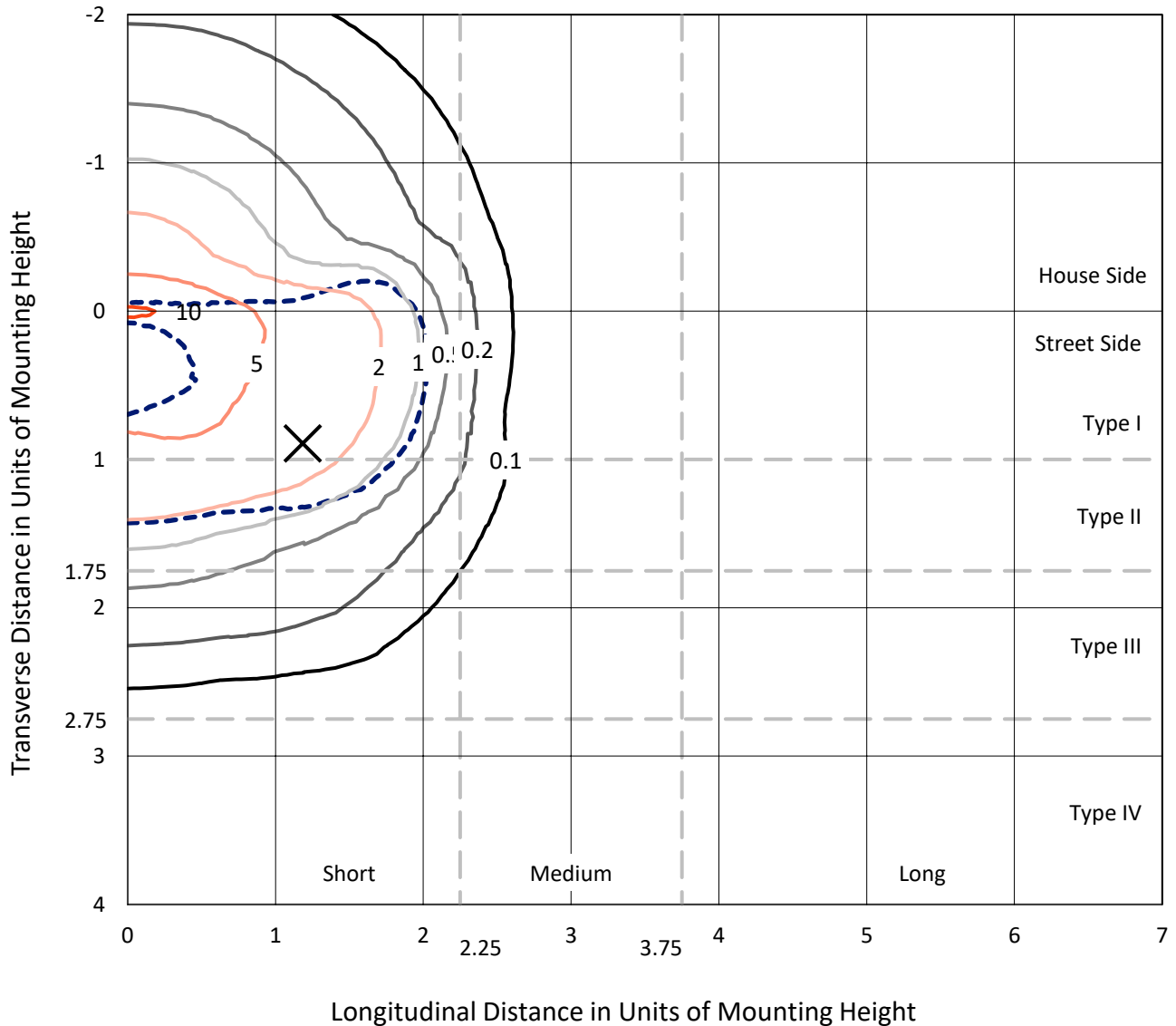
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

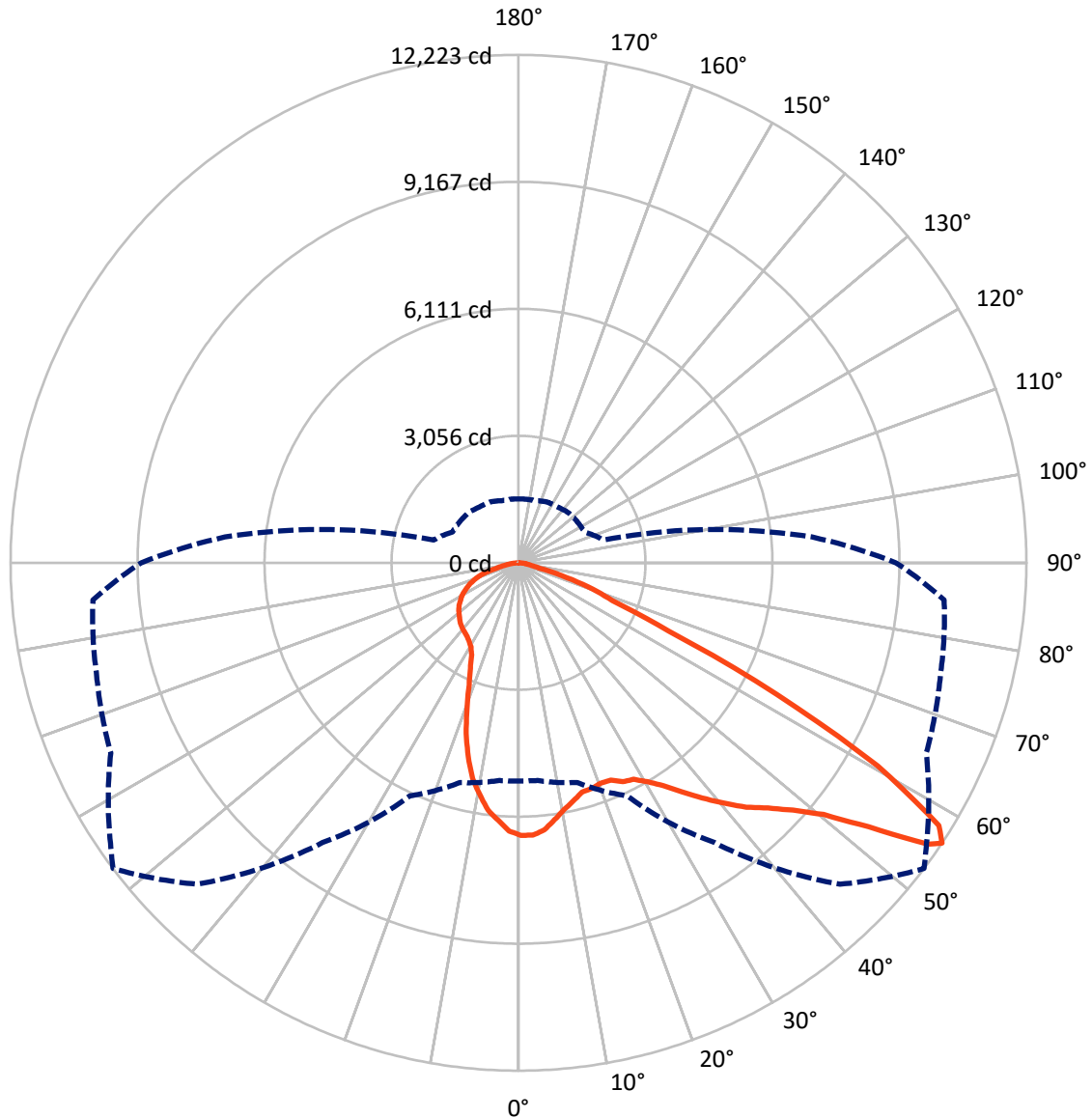
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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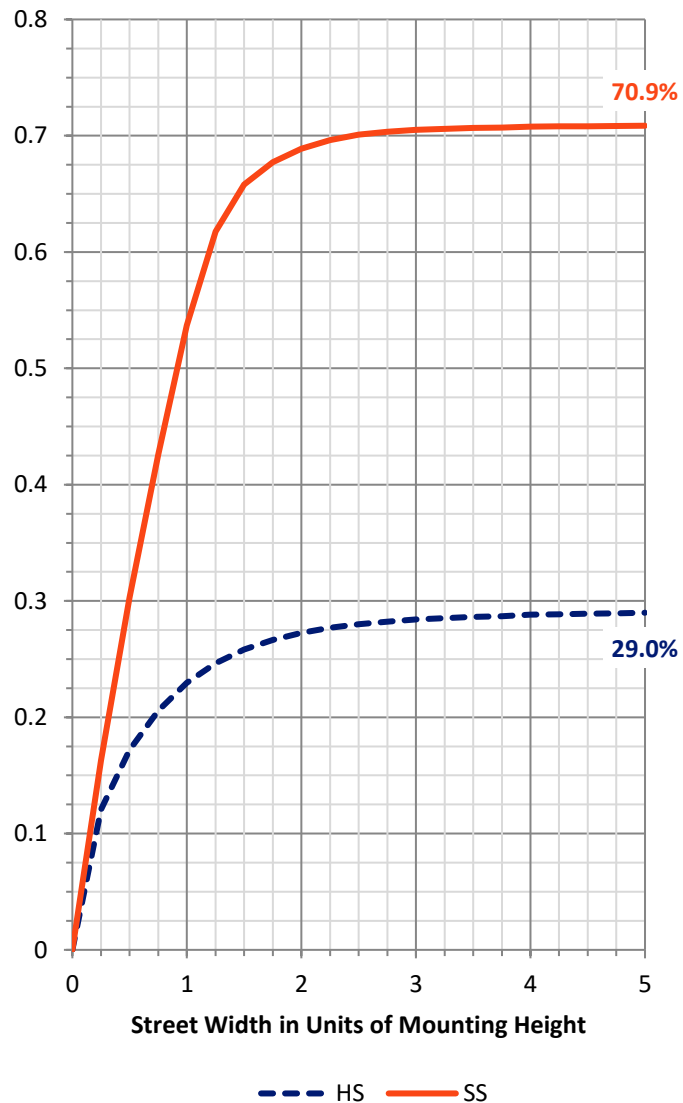
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5785.3	0.0	5785.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	14039.6	0.0	14039.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	19824.9	0.0	19824.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.6	2.9
10°-20°	1450.2	7.3
20°-30°	2138.5	10.8
30°-40°	3055.4	15.4
40°-50°	4205.4	21.2
50°-60°	4969.6	25.1
60°-70°	2648.5	13.4
70°-80°	671.9	3.4
80°-90°	104.8	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°	19824.9	100.0
0°-180°	19824.9	100.0

Coefficient of Utilization

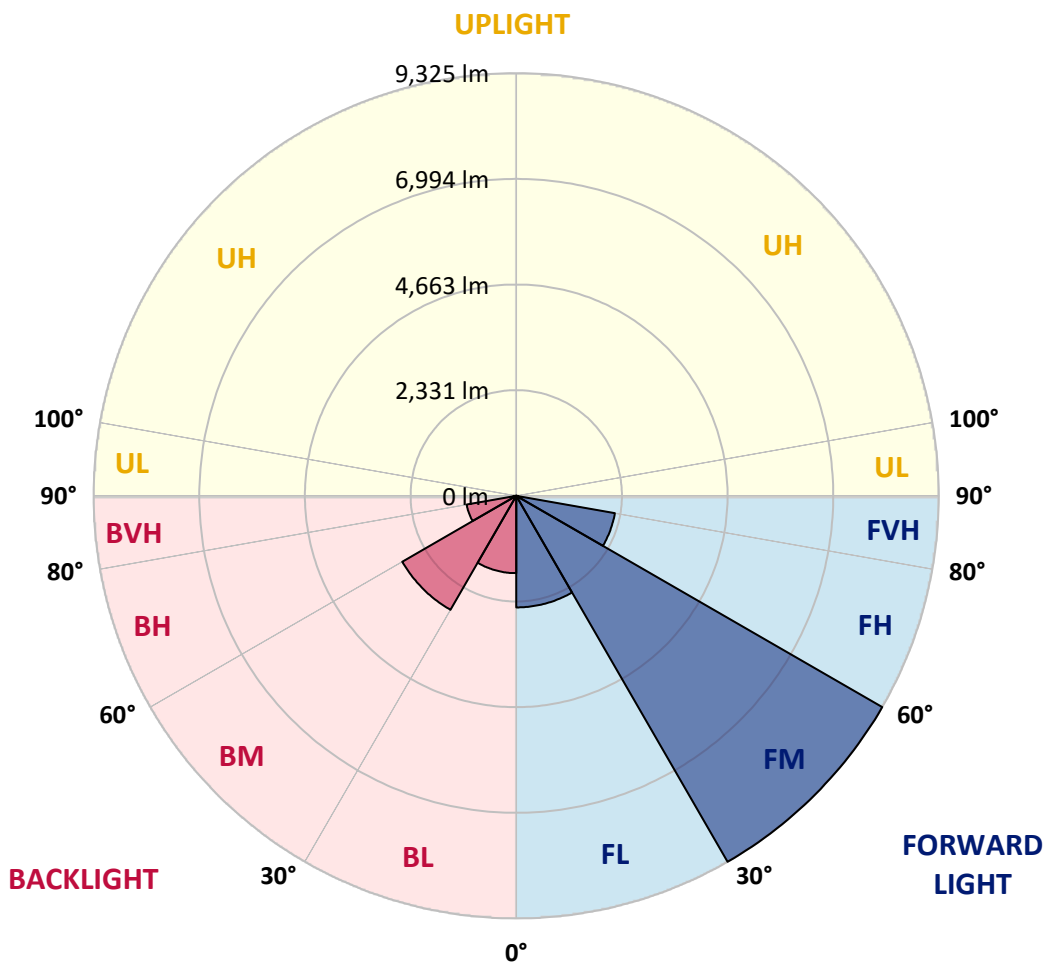


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2463.0	12.4			
FM (30°-60°)	9325.3	47.0			
FH (60°-80°)	2209.2	11.1			G2/5000
FVH (80°-90°)	42.1	0.2			G1/100
BL (0°-30°)	1706.3	8.6	B3/2500		
BM (30°-60°)	2905.2	14.7	B3/5000		
BH (60°-80°)	1111.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	62.7	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°	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9
2.5°	6477.5	6421.5	6454.6	6441.9	6546.2	6576.6	6561.4	6574.1	6632.6	6604.6	6546.2
5°	6052.8	6131.6	6146.9	6185.1	6246.0	6365.6	6459.6	6485.1	6513.0	6642.8	6630.0
7.5°	5666.2	5719.6	5691.6	5803.6	5935.8	6129.0	6243.5	6263.9	6520.7	6591.9	6645.3
10°	5422.1	5368.6	5495.8	5526.3	5676.4	5897.6	6034.9	6118.9	6352.8	6635.2	6668.2
12.5°	5195.7	5177.9	5254.2	5340.7	5508.6	5737.4	5877.2	5910.4	6271.5	6569.1	6724.1
15°	5027.8	5007.5	5083.8	5147.4	5343.2	5546.6	5724.7	5818.8	6182.4	6530.9	6675.9
17.5°	4895.6	4893.1	4936.3	5050.7	5251.6	5422.1	5709.5	5714.5	6136.7	6589.4	6716.6
20°	4888.0	4885.5	4893.1	5020.3	5203.4	5411.9	5661.1	5706.9	6136.7	6548.7	6719.1
22.5°	4951.6	4910.9	4956.7	5038.0	5170.3	5429.7	5678.9	5780.6	6284.2	6749.6	6833.5
25°	5053.3	5063.5	5088.9	5116.9	5193.2	5470.4	5836.6	5920.6	6457.1	6922.5	6991.2
27.5°	5238.9	5233.9	5244.1	5259.3	5325.4	5508.6	5900.2	6116.3	6818.2	7230.2	7161.6
30°	5511.1	5493.2	5533.9	5587.4	5526.3	5630.6	6111.3	6274.0	7154.0	7540.5	7352.4
32.5°	5757.7	5823.8	5900.2	5923.1	5849.3	5869.7	6391.0	6556.4	7433.7	7922.0	7586.3
35°	6065.5	6118.9	6220.6	6291.9	6279.1	6218.1	6772.5	6991.2	7838.0	8201.8	7833.0
37.5°	6365.6	6429.2	6597.0	6808.1	6691.1	6663.2	7179.4	7359.9	7962.7	8351.8	8013.6
40°	6848.8	6846.2	7136.1	7245.6	7349.8	7301.5	7601.5	7662.6	8028.8	8318.8	8018.6
42.5°	7415.9	7380.3	7675.3	7845.7	7980.5	7985.5	8041.6	8021.2	8059.3	8150.9	7965.2
45°	7955.0	8031.4	8328.9	8634.1	8768.9	8784.2	8412.9	8374.7	8112.7	8102.5	7863.5
47.5°	8613.8	8631.5	8875.7	9277.5	9590.3	9483.5	8893.5	8809.6	8346.7	8425.6	8033.9
50°	8651.9	8784.2	9002.8	9475.9	10437.2	10409.2	9516.6	9358.9	8723.1	8883.3	8509.5
52.5°	7853.3	7822.8	8082.2	8855.3	10373.7	11329.9	10549.1	10172.7	9531.8	9409.8	9280.0
55°	5984.1	6055.3	6284.2	7065.0	9008.0	11342.6	11955.5	11647.8	10396.5	10188.0	10037.9
56°	5249.1	5259.3	5475.5	6187.6	8219.5	10938.2	12222.5	11973.3	10826.3	10508.4	10279.5
57.5°	4351.4	4292.9	4404.8	4793.9	6937.8	10083.7	11930.1	12174.2	11329.9	10854.3	10536.4
60°	3425.6	3412.9	3367.2	3438.3	4384.5	7596.5	9931.1	10480.5	11279.0	10528.7	10091.3
62.5°	2797.5	2733.9	2825.5	2927.2	3046.7	4712.5	6978.4	7301.5	8954.5	8405.2	7581.2
65°	2169.4	2138.8	2253.3	2583.9	2655.0	2993.3	3975.0	4224.3	5287.3	5193.2	4572.6
67.5°	1492.9	1497.9	1597.1	2100.6	2461.8	2431.2	2433.9	2563.5	2759.3	2049.8	1785.3
70°	946.0	943.5	996.9	1353.0	1981.1	2001.5	1899.7	1861.6	1765.0	1068.2	1131.7
72.5°	607.8	590.0	618.0	747.7	1024.9	1185.1	1220.7	1243.6	1022.3	839.2	910.5
75°	343.3	325.6	315.4	348.4	404.4	467.9	513.7	529.0	592.6	635.8	674.0
77.5°	104.3	94.1	114.5	152.6	200.9	269.5	328.1	338.3	399.3	450.1	488.3
80°	45.8	50.9	71.2	101.8	142.4	190.7	231.4	246.7	287.4	325.6	335.7
82.5°	28.0	30.5	48.4	68.6	99.2	134.8	165.3	170.4	211.1	241.6	249.3
85°	10.2	12.7	25.4	40.7	63.6	86.5	86.5	94.1	86.5	86.5	94.1
87.5°	0.0	0.0	2.5	5.0	5.0	7.7	10.2	10.2	12.7	15.2	17.8
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°	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9	6558.9
2.5°	6576.6	6563.9	6543.6	6469.8	6462.2	6439.3	6312.2	6291.9	6312.2	6251.2	6256.2
5°	6563.9	6602.1	6449.5	6375.7	6238.5	6139.2	6024.8	5966.3	5862.0	5795.9	5869.7
7.5°	6619.9	6604.6	6413.9	6253.7	6047.7	5795.9	5595.0	5480.5	5297.5	5246.6	5284.8
10°	6599.6	6518.2	6294.4	6083.3	5694.2	5472.9	5147.4	4832.0	4659.1	4570.1	4557.4
12.5°	6571.6	6548.7	6174.9	5811.1	5401.7	4936.3	4478.6	4180.9	3898.7	3776.6	3794.4
15°	6604.6	6411.4	5951.0	5490.7	4946.5	4336.1	3842.8	3458.7	3262.9	3184.0	3184.0
17.5°	6589.4	6345.3	5844.2	5132.1	4442.9	3720.7	3179.0	2947.5	2866.1	2866.1	2889.1
20°	6597.0	6388.5	5628.1	4773.5	3847.8	3133.2	2739.0	2655.0	2690.7	2703.4	2716.1
22.5°	6640.2	6246.0	5417.0	4379.3	3296.0	2680.5	2487.3	2489.8	2553.4	2622.0	2609.3
25°	6693.6	6190.1	5160.1	3987.7	2873.8	2459.3	2398.2	2390.6	2438.9	2474.5	2479.6
27.5°	6647.9	6093.5	4898.2	3499.4	2527.9	2311.7	2299.0	2304.1	2319.4	2390.6	2367.7
30°	6797.9	6121.5	4570.1	3090.0	2337.1	2263.5	2248.2	2240.5	2263.5	2283.7	2266.0
32.5°	6983.6	6022.2	4325.9	2695.7	2243.1	2227.8	2197.3	2187.1	2199.9	2179.5	2189.7
35°	7065.0	6004.4	4008.0	2413.5	2169.4	2156.6	2138.8	2136.3	2138.8	2121.0	2105.8
37.5°	7110.7	6088.3	3644.4	2283.7	2123.5	2136.3	2095.6	2090.5	2044.7	2054.9	2062.6
40°	7189.5	5958.7	3349.4	2159.2	2095.6	2070.1	2034.5	2026.9	1996.4	1978.6	1996.4
42.5°	7075.1	5920.6	3059.5	2105.8	2054.9	2026.9	2001.5	1958.3	1948.1	1932.8	1922.6
45°	6983.6	5701.8	2800.0	2039.6	2006.5	1991.3	1943.0	1897.2	1859.0	1874.3	1851.5
47.5°	7052.2	5625.5	2543.2	1983.7	1940.4	1922.6	1874.3	1838.7	1800.6	1782.8	1777.7
50°	7326.9	5767.9	2327.0	1943.0	1884.5	1874.3	1810.8	1770.1	1734.5	1721.7	1726.8
52.5°	7983.0	6157.0	2179.5	1859.0	1831.1	1785.3	1749.7	1698.8	1675.9	1635.2	1660.7
55°	8814.7	6790.3	2141.4	1780.2	1765.0	1724.3	1675.9	1637.8	1594.5	1561.5	1553.9
56°	9081.7	7092.9	2110.8	1749.7	1724.3	1701.4	1637.8	1614.9	1546.3	1538.6	1533.6
57.5°	9297.8	7359.9	2116.0	1691.3	1665.8	1645.4	1607.3	1551.3	1505.6	1477.6	1490.3
60°	8809.6	6889.5	2019.3	1602.2	1597.1	1559.0	1505.6	1480.2	1424.1	1391.1	1383.5
62.5°	6548.7	4676.9	1637.8	1487.7	1485.2	1444.5	1383.5	1355.5	1345.3	1299.6	1299.6
65°	3771.5	2932.3	1416.6	1393.6	1373.4	1332.6	1271.6	1248.7	1223.2	1208.0	1195.3
67.5°	1609.8	1520.8	1286.8	1284.3	1261.4	1210.5	1149.5	1113.9	1080.9	1050.3	1065.6
70°	1167.3	1185.1	1162.3	1149.5	1121.6	1058.0	1004.6	961.3	910.5	890.1	905.3
72.5°	925.7	963.9	996.9	999.4	966.4	892.6	834.2	775.7	719.7	691.7	704.4
75°	701.9	727.4	760.4	768.0	719.7	668.8	612.9	551.9	508.6	475.6	480.6
77.5°	506.1	501.0	531.5	526.5	503.6	467.9	417.1	361.1	312.9	282.3	284.8
80°	345.9	353.5	371.3	368.8	340.8	317.9	279.7	234.0	198.4	172.9	167.9
82.5°	241.6	254.3	269.5	256.8	234.0	211.1	183.1	150.0	122.1	101.8	96.6
85°	86.5	99.2	114.5	122.1	129.7	124.6	104.3	83.9	61.1	50.9	48.4
87.5°	17.8	20.4	22.9	22.9	22.9	20.4	17.8	17.8	15.2	7.7	7.7
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)