

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: P648392

Luminaire Tested: **GALN-SA4B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15488.5 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

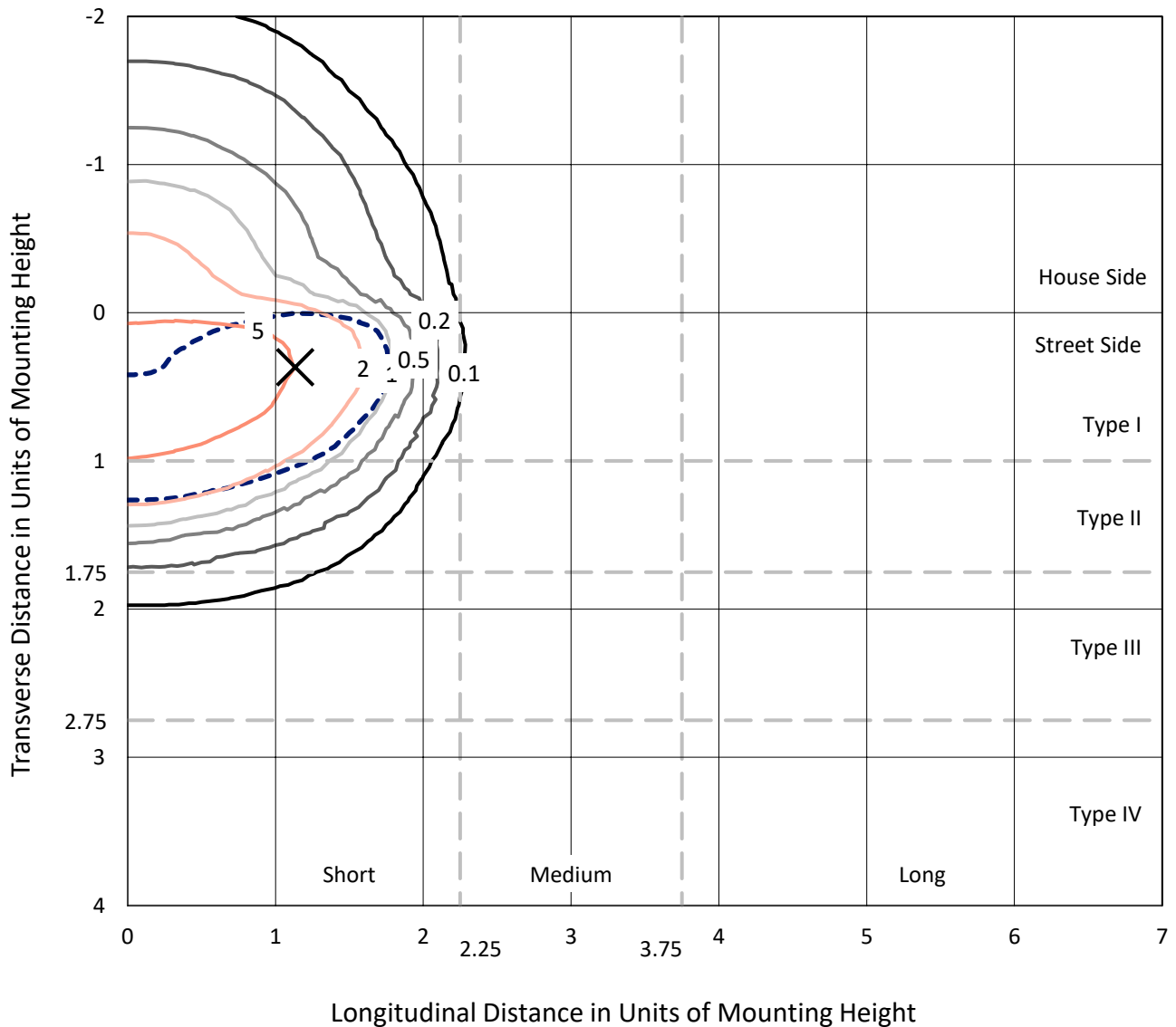
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

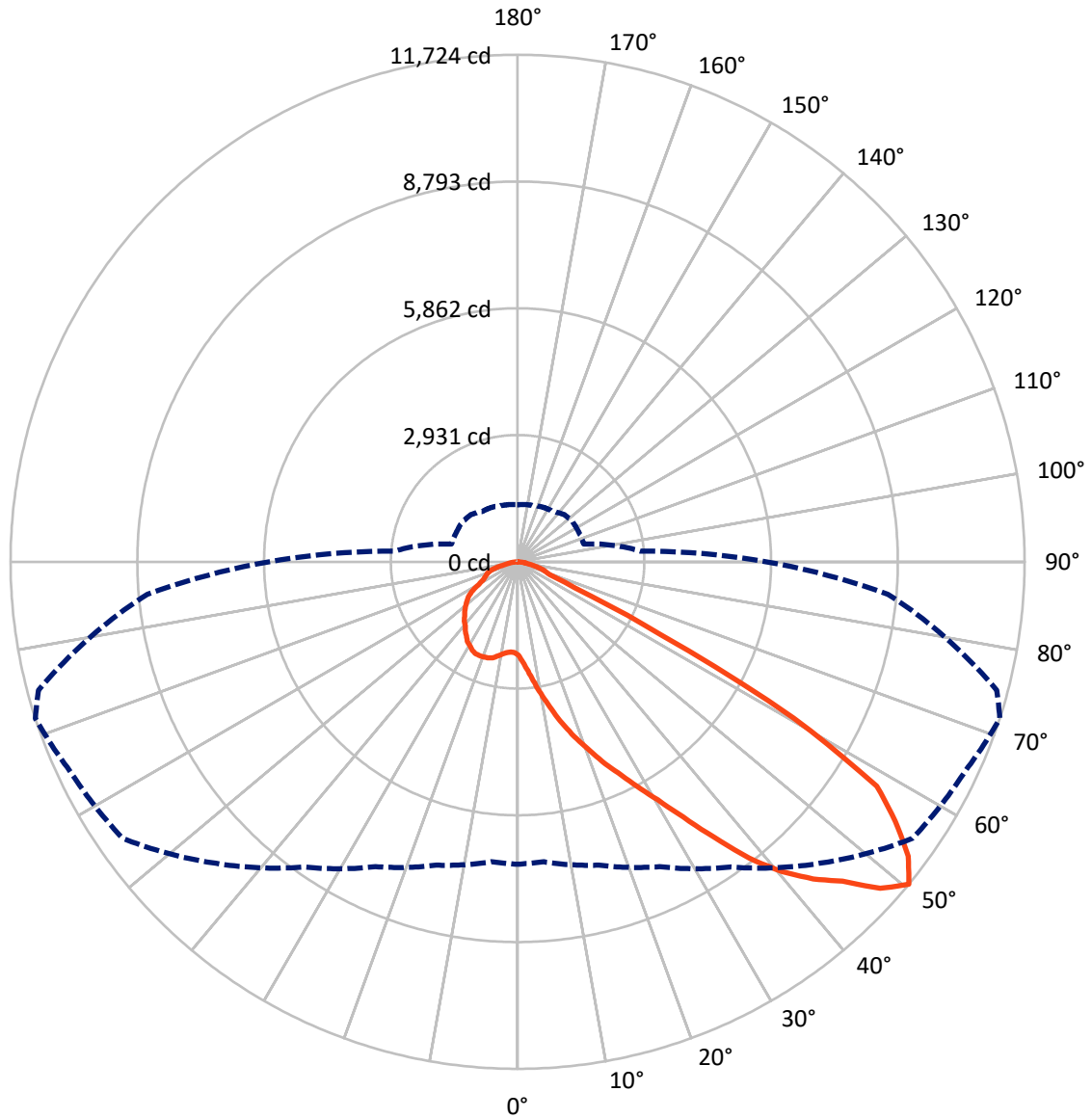
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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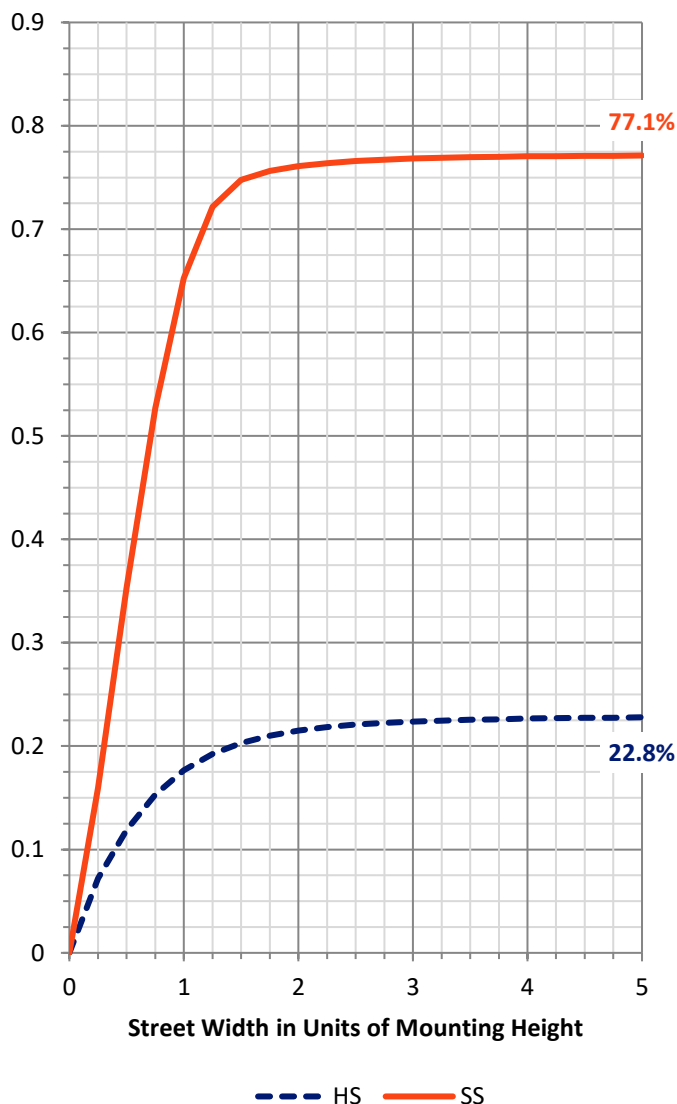
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3548.5	0.0	3548.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	11940.0	0.0	11940.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	15488.5	0.0	15488.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.6
10°-20°	948.1	6.1
20°-30°	1838.3	11.9
30°-40°	3045.4	19.7
40°-50°	4261.2	27.5
50°-60°	3594.9	23.2
60°-70°	1095.7	7.1
70°-80°	384.4	2.5
80°-90°	66.8	0.4
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°	15488.5	100.0
0°-180°	15488.5	100.0

Coefficient of Utilization

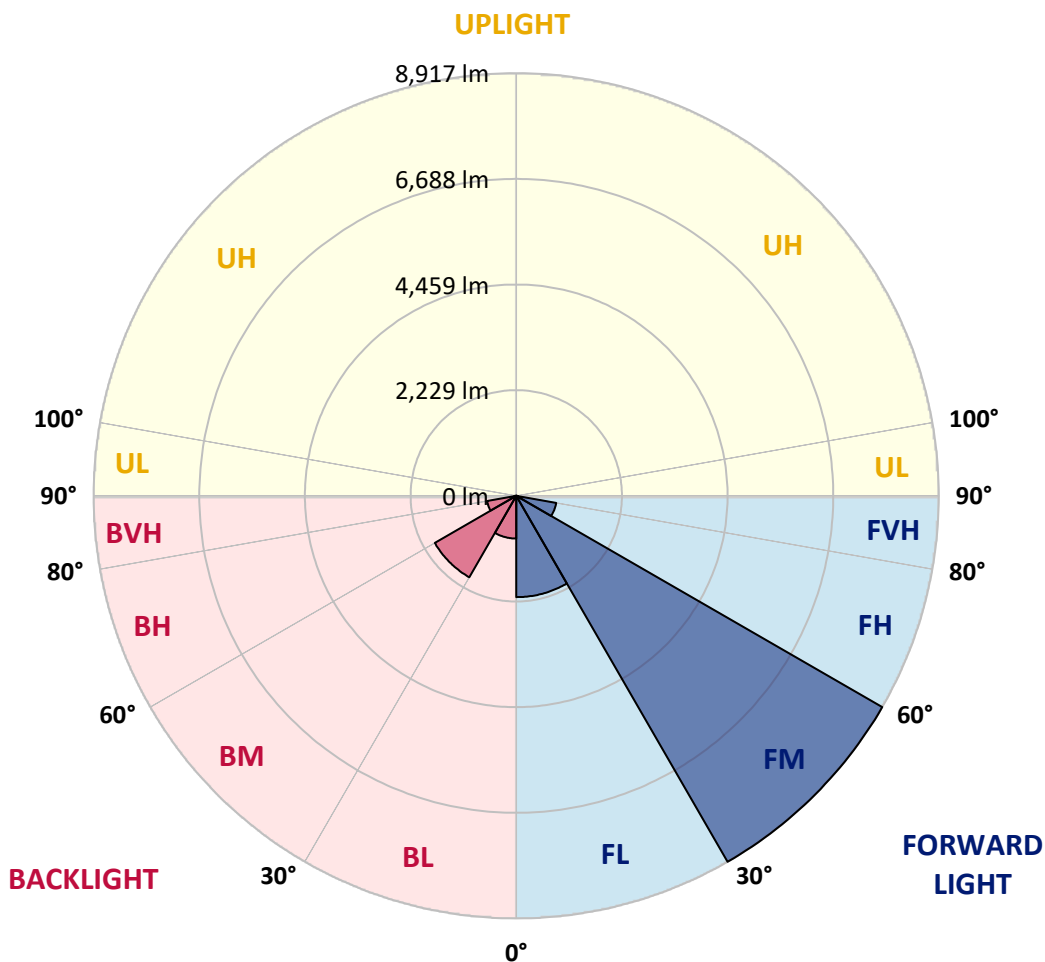


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2138.0	13.8			
FM (30°-60°)	8917.2	57.6			
FH (60°-80°)	854.9	5.5			G1/1800
FVH (80°-90°)	29.9	0.2			G1/100
BL (0°-30°)	902.0	5.8	B2/1000		
BM (30°-60°)	1984.4	12.8	B2/2500		
BH (60°-80°)	625.2	4.0	B2/1000		G2/1000
BVH (80°-90°)	36.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1
2.5°	2773.2	2756.0	2704.2	2687.0	2625.7	2514.5	2476.2	2363.1	2315.2	2271.1	2219.4
5°	3507.3	3426.8	3421.1	3323.3	3181.5	3099.1	2853.8	2688.9	2537.5	2460.9	2319.0
7.5°	3975.0	3976.9	3976.9	3896.4	3783.3	3574.4	3354.0	3056.9	2828.8	2715.8	2474.3
10°	4419.6	4381.3	4360.2	4352.5	4275.9	4072.7	3836.9	3469.0	3156.6	3024.3	2591.2
12.5°	4733.9	4701.4	4749.2	4724.3	4668.7	4536.5	4314.2	3894.5	3503.5	3325.2	2779.0
15°	4883.4	4906.4	4944.7	5013.7	4988.8	4939.0	4693.7	4331.4	3877.2	3676.0	2945.7
17.5°	5113.4	5050.1	5096.2	5182.4	5251.4	5228.4	5088.5	4647.7	4247.1	3999.9	3170.0
20°	5274.4	5238.0	5261.0	5360.7	5412.4	5542.7	5469.9	5061.6	4601.7	4341.0	3434.5
22.5°	5734.4	5680.7	5606.0	5621.3	5640.4	5732.4	5749.7	5515.8	5013.7	4737.8	3685.6
25°	6301.7	6251.9	6163.7	6073.6	6018.0	6000.8	6060.2	5872.3	5408.6	5123.0	3955.8
27.5°	6926.5	6842.2	6786.6	6600.6	6451.1	6428.1	6399.4	6297.8	5876.2	5567.6	4260.5
30°	7534.0	7466.9	7392.2	7095.2	6939.9	6915.0	6773.1	6801.9	6384.1	6041.0	4605.5
32.5°	7994.0	7999.8	7829.1	7604.9	7459.2	7327.0	7275.2	7357.7	7035.7	6759.7	4990.8
35°	8365.8	8383.0	8220.2	8017.0	7859.8	7951.8	7928.8	7967.2	7813.9	7476.6	5439.2
37.5°	8728.0	8641.8	8467.4	8369.6	8287.2	8438.6	8634.1	8666.7	8695.4	8298.7	5960.5
40°	8787.5	8795.1	8693.6	8762.6	8659.0	8887.1	9341.3	9299.1	9416.0	9069.2	6525.9
42.5°	8703.1	8720.3	8760.6	8858.4	9107.5	9381.6	10056.2	9883.7	10025.5	9717.0	7076.0
45°	8565.2	8494.2	8544.0	8915.9	9347.1	9956.5	10709.8	10575.6	10529.6	10270.8	7731.4
47.5°	7905.8	7978.7	8133.9	8591.9	9239.8	10056.2	11173.6	11142.9	11280.9	11098.8	8327.4
50°	6991.6	6962.9	7261.9	7777.4	8613.0	9860.7	11148.7	11426.6	11723.6	11470.6	8593.9
52.5°	5236.1	5389.4	5646.2	6286.3	7478.4	8795.1	10604.3	11068.2	11309.7	11256.0	8379.2
55°	3309.9	3355.9	3511.1	4272.0	5345.3	7058.7	9090.2	10165.5	10596.7	10797.9	8181.8
57.5°	1608.0	1521.8	1711.5	2322.8	3087.6	4747.3	7010.8	8854.6	9791.7	10155.9	7752.5
60°	839.5	872.0	946.8	1165.3	1596.5	2464.7	4369.8	5901.1	7332.8	7892.4	5876.2
62.5°	695.7	707.2	757.0	866.3	1061.7	1418.2	2230.8	2876.7	3739.2	4243.2	3342.5
65°	590.3	596.0	649.7	722.6	847.1	998.6	1148.0	1201.7	1454.7	1493.0	1188.3
67.5°	492.6	498.3	555.8	624.8	705.3	745.6	783.9	780.0	808.8	797.3	795.4
70°	379.4	385.2	444.7	517.5	557.7	534.7	653.6	680.3	691.9	701.5	716.8
72.5°	274.0	285.6	331.6	383.3	362.2	415.9	538.5	578.8	594.1	599.9	619.0
75°	199.4	203.2	214.6	199.4	230.0	289.4	379.4	429.3	448.5	454.2	483.0
77.5°	88.2	90.0	92.0	115.0	147.6	180.2	226.1	266.4	293.2	300.9	308.6
80°	46.0	47.9	59.4	78.6	105.4	132.2	164.8	187.8	205.1	207.0	214.6
82.5°	28.7	30.7	42.1	55.6	74.8	97.7	120.7	139.9	153.3	155.3	157.1
85°	13.4	17.2	24.9	34.5	49.8	63.3	65.1	55.6	59.4	61.3	57.5
87.5°	3.8	5.7	7.7	5.7	7.7	7.7	9.6	11.5	11.5	11.5	13.4
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°	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1	2156.1
2.5°	2190.6	2173.4	2106.3	2081.4	2016.2	2027.7	1993.2	1991.3	1983.7	1981.7	1979.8
5°	2244.3	2190.6	2110.1	2048.8	2012.4	2008.6	1983.7	1983.7	1991.3	1997.0	1983.7
7.5°	2332.5	2271.1	2135.1	2077.5	2045.0	2039.2	2021.9	2008.6	2025.8	2020.1	2004.7
10°	2434.0	2326.7	2183.0	2133.1	2079.5	2066.0	2066.0	2071.8	2043.1	2052.6	2037.3
12.5°	2547.1	2403.3	2244.3	2186.8	2123.6	2115.9	2112.1	2069.9	2085.2	2077.5	2039.2
15°	2690.9	2491.5	2322.8	2225.1	2171.5	2137.0	2087.2	2079.5	2069.9	2050.8	2033.5
17.5°	2846.1	2587.3	2359.3	2236.6	2156.1	2131.2	2092.9	2052.6	2023.9	2027.7	2014.3
20°	2978.4	2675.5	2372.7	2248.1	2144.6	2096.7	2037.3	2012.4	1981.7	1979.8	1977.9
22.5°	3135.5	2794.4	2391.9	2217.5	2110.1	2060.3	2020.1	1976.0	1954.9	1928.1	1941.4
25°	3323.3	2840.3	2395.7	2200.2	2085.2	1997.0	1976.0	1928.1	1920.4	1882.1	1889.8
27.5°	3459.4	2865.2	2365.1	2146.5	2027.7	1960.6	1922.3	1887.8	1874.4	1845.7	1838.0
30°	3641.5	2903.6	2299.9	2079.5	1970.3	1895.5	1872.5	1864.8	1826.5	1795.8	1792.0
32.5°	3848.4	2928.5	2257.7	2010.5	1910.8	1853.3	1864.8	1828.4	1780.5	1753.7	1746.0
35°	4013.3	2938.1	2152.3	1931.9	1870.6	1834.2	1820.7	1813.0	1744.1	1719.2	1700.0
37.5°	4264.4	2917.0	2064.1	1876.3	1826.5	1813.0	1801.6	1749.8	1671.2	1634.8	1608.0
40°	4557.6	2911.3	1951.1	1797.8	1784.3	1799.6	1765.1	1684.6	1575.4	1535.1	1516.0
42.5°	4839.3	2951.5	1880.1	1755.6	1738.3	1744.1	1696.1	1575.4	1521.8	1498.7	1468.1
45°	5310.8	3035.8	1763.2	1690.4	1682.7	1678.9	1621.4	1494.9	1464.3	1435.5	1429.8
47.5°	5736.3	2980.3	1688.5	1623.3	1631.0	1609.9	1487.2	1447.0	1412.5	1383.8	1374.2
50°	5761.2	2848.0	1583.1	1571.6	1573.5	1537.1	1420.2	1393.3	1349.3	1330.1	1316.7
52.5°	5630.9	2631.4	1485.4	1489.2	1494.9	1435.5	1337.8	1318.6	1282.2	1255.4	1247.7
55°	5264.8	2294.1	1389.5	1404.9	1420.2	1307.1	1276.4	1228.5	1199.8	1161.4	1163.4
57.5°	4638.1	1847.6	1255.4	1280.3	1312.9	1188.3	1165.3	1105.8	1063.7	1033.0	1029.2
60°	3108.7	1314.7	1054.1	1063.7	1136.5	1086.7	1084.8	1025.3	967.9	941.0	925.7
62.5°	1834.2	1004.3	910.4	900.8	898.9	927.6	975.5	954.5	879.7	827.9	843.3
65°	960.2	868.2	847.1	814.6	795.4	787.7	824.1	833.7	783.9	728.3	724.4
67.5°	806.9	806.9	789.7	778.1	751.3	718.7	695.7	665.1	657.4	642.1	622.9
70°	734.1	753.2	747.5	720.6	697.7	661.2	601.8	551.9	504.1	486.8	498.3
72.5°	640.1	659.3	659.3	645.9	615.2	559.6	502.1	444.7	404.4	373.7	369.9
75°	492.6	502.1	525.2	509.8	469.6	435.0	375.7	316.3	277.9	249.2	243.4
77.5°	314.3	329.6	329.6	327.8	298.9	266.4	228.1	185.9	157.1	136.1	130.3
80°	208.9	218.5	226.1	218.5	199.4	174.4	145.6	116.9	95.8	78.6	74.8
82.5°	153.3	164.8	170.5	162.9	143.8	124.6	103.5	82.4	61.3	47.9	44.1
85°	59.4	61.3	69.0	82.4	80.5	78.6	63.3	46.0	34.5	24.9	23.0
87.5°	15.3	13.4	15.3	15.3	13.4	11.5	11.5	11.5	11.5	5.7	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)