

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: P194037

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T3R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44398 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

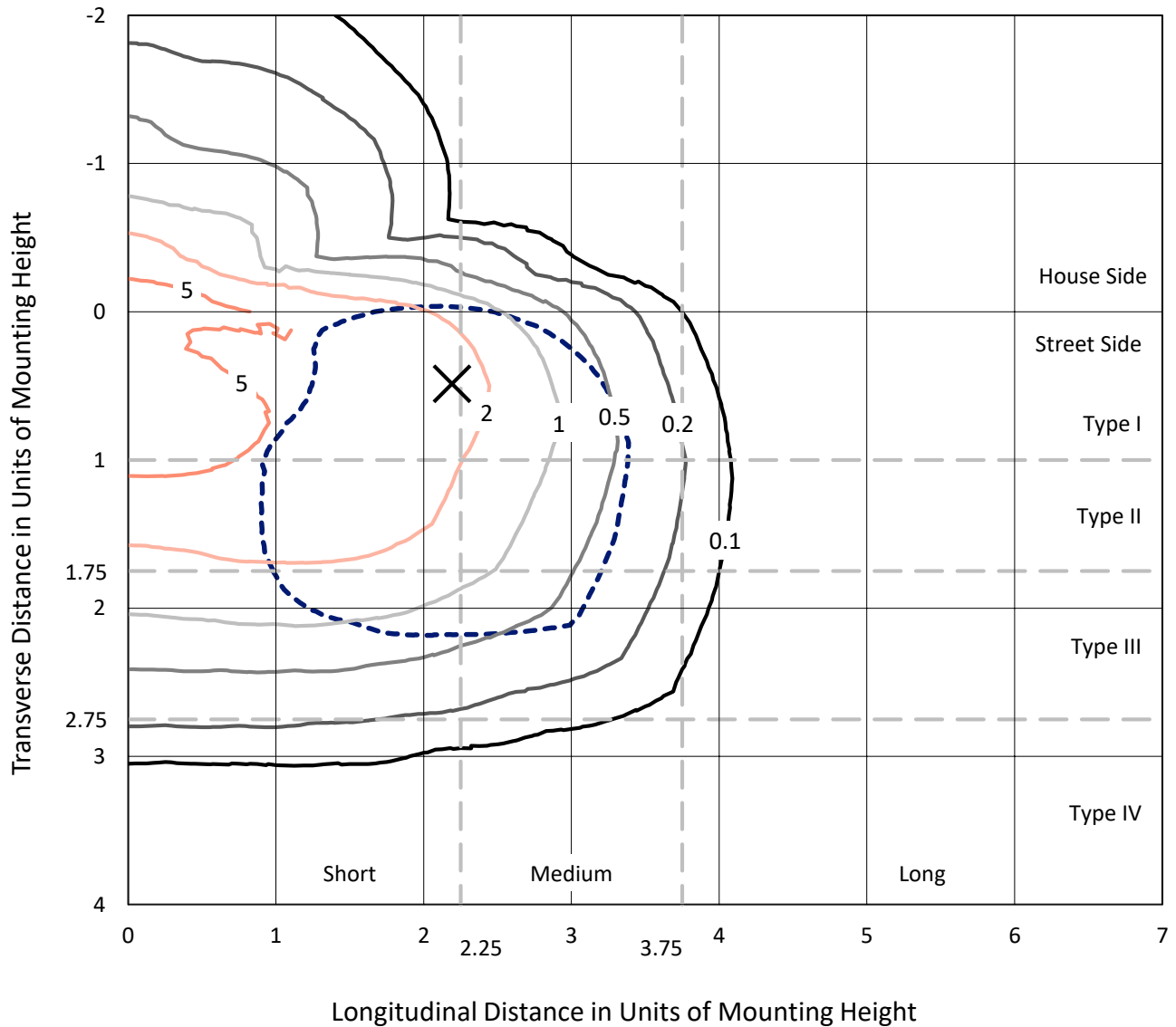
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

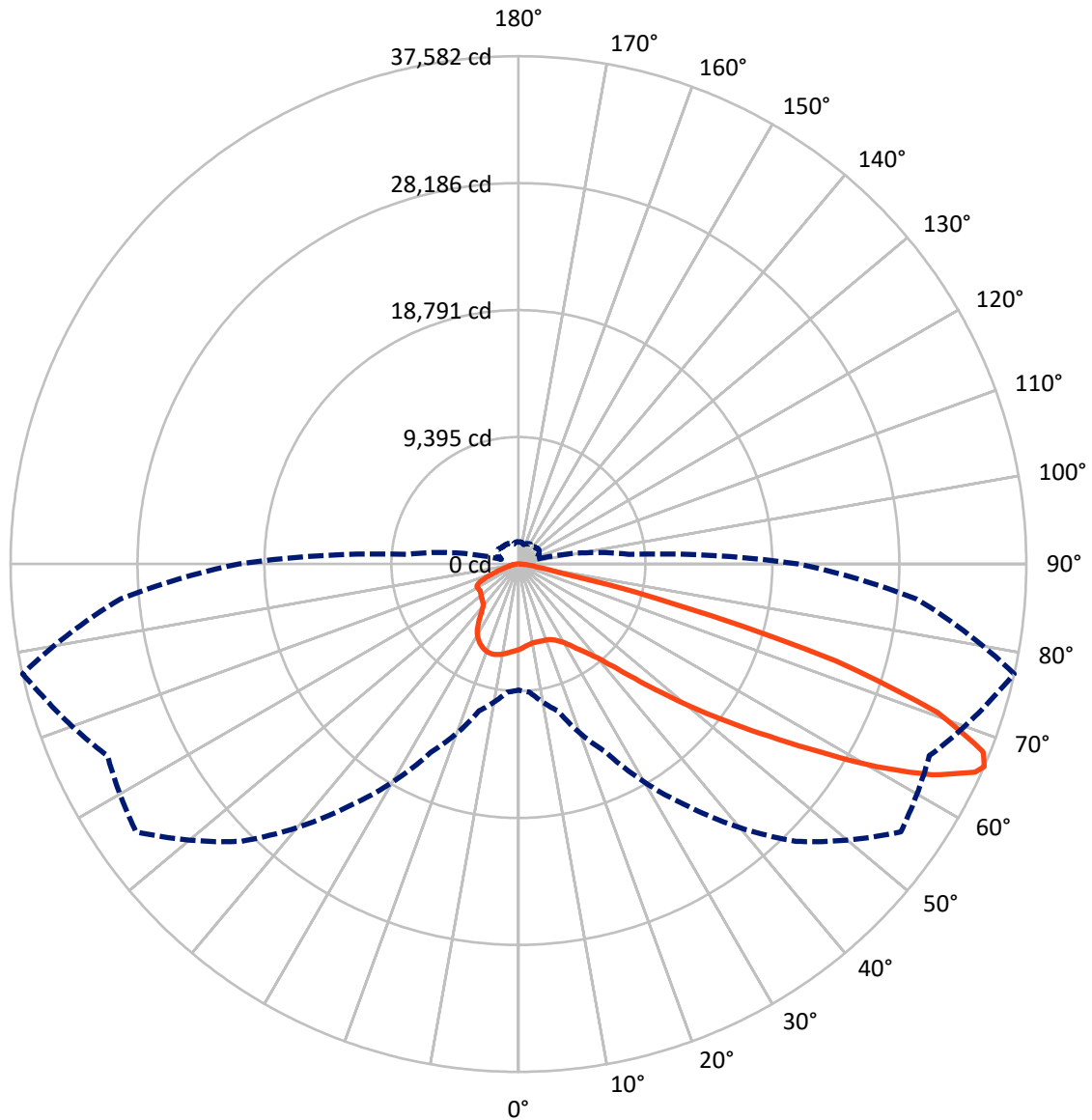
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7585.1	0.0	7585.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	36812.9	0.0	36812.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	44398.0	0.0	44398.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.3	1.3
10°-20°	1594.7	3.6
20°-30°	2721.6	6.1
30°-40°	4356.8	9.8
40°-50°	6730.8	15.2
50°-60°	9546.6	21.5
60°-70°	12770.7	28.8
70°-80°	5546.1	12.5
80°-90°	565.5	1.3
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°	44398.0	100.0
0°-180°	44398.0	100.0



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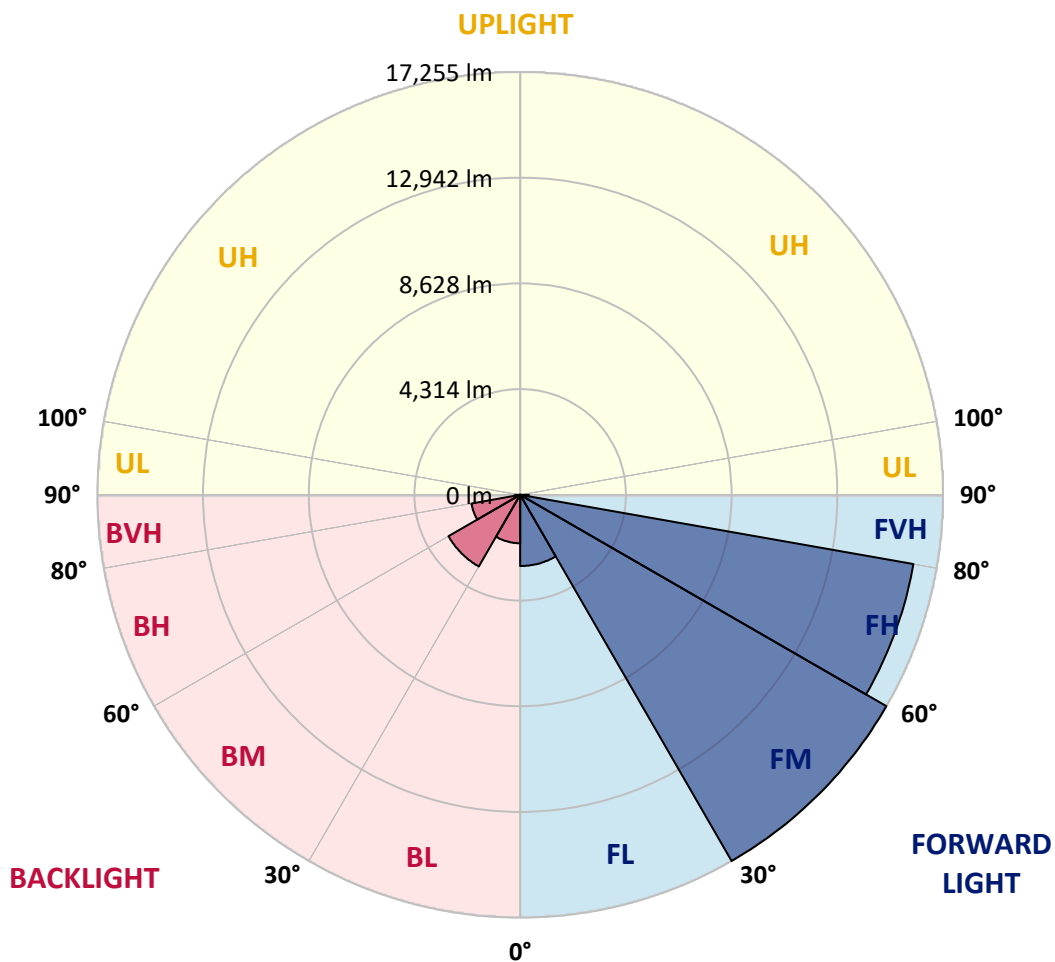
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2906.0	6.5			
FM	(30°-60°)	17255.4	38.9			
FH	(60°-80°)	16296.8	36.7			G5
FVH	(80°-90°)	354.7	0.8			G3/500
BL	(0°-30°)	1975.5	4.4	B3/2500		
BM	(30°-60°)	3378.7	7.6	B3/5000		
BH	(60°-80°)	2020.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	210.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9
2.5°	5596.9	5634.7	5666.1	5695.5	5754.2	5850.7	5961.9	6052.1	6182.2	6207.4	6276.6
5°	5082.9	5082.9	5108.1	5152.2	5231.9	5376.6	5527.7	5729.1	6012.3	6079.4	6264.0
7.5°	4833.3	4835.4	4850.1	4887.8	4957.1	5089.2	5255.0	5492.0	5875.9	5987.1	6301.8
10°	4925.6	4904.6	4873.2	4854.3	4864.8	4942.4	5099.7	5364.0	5792.0	5934.6	6385.7
12.5°	5441.7	5401.8	5292.7	5148.0	5009.5	4952.9	5045.2	5303.2	5756.3	5922.1	6496.8
15°	6285.0	6268.2	6064.7	5764.7	5429.1	5148.0	5085.0	5280.1	5760.5	5936.7	6629.0
17.5°	7342.3	7319.2	7050.7	6614.3	6066.8	5519.3	5225.6	5299.0	5775.2	5961.9	6757.0
20°	8410.0	8338.7	8049.2	7529.0	6826.2	6024.8	5458.4	5347.3	5794.1	5989.2	6891.2
22.5°	9207.2	9148.4	8888.3	8382.8	7573.0	6610.1	5771.0	5431.2	5854.9	6068.9	7057.0
25°	9907.8	9912.0	9654.0	9165.2	8328.2	7231.1	6173.8	5655.6	6010.2	6232.5	7283.5
27.5°	10774.2	10723.9	10482.6	9998.1	9075.0	7858.3	6660.5	5964.0	6240.9	6465.4	7581.4
30°	11810.5	11774.9	11495.9	10946.3	9903.7	8531.7	7216.4	6322.7	6538.8	6771.7	7971.6
32.5°	13029.4	13012.6	12723.1	12016.1	10860.2	9324.7	7868.8	6796.8	6983.5	7224.8	8531.7
35°	14460.0	14462.1	14120.2	13270.6	11907.0	10247.7	8609.3	7407.3	7524.8	7776.5	9198.8
37.5°	15341.1	15448.1	15320.1	14453.8	13092.3	11279.8	9570.1	8217.0	8141.5	8395.3	9914.1
40°	15529.9	15660.0	16064.9	15624.3	14418.1	12416.8	10421.8	8995.3	8900.9	9211.4	10835.1
42.5°	15265.6	15446.0	16301.9	16612.4	15825.7	13818.1	11567.2	10151.2	10031.6	10449.1	11980.5
45°	15108.3	15242.5	16232.7	17126.3	17046.6	15402.0	13025.2	11602.9	11558.8	12106.3	13302.1
47.5°	14835.6	14957.2	15909.6	17245.9	17764.1	16853.6	14776.8	13377.6	13463.6	14181.0	14793.6
50°	14982.4	15032.7	15548.8	16941.7	17971.7	17917.2	16734.0	15433.4	15727.1	16622.9	16482.3
52.5°	14961.4	15091.5	15506.8	16442.5	17999.0	18573.8	18661.9	17726.3	18345.1	19373.1	18355.6
55°	12095.8	12335.0	15013.9	16316.6	18095.5	19217.8	20377.9	20143.0	21296.7	22494.6	20470.2
57.5°	11550.4	11701.5	13186.7	16580.9	18607.4	20447.1	22286.9	22802.9	24732.9	26123.7	23046.3
60°	11443.4	11630.1	13167.8	16904.0	19645.8	22450.5	25116.8	26023.0	28913.8	30436.8	26033.5
62.5°	11109.9	11311.3	13044.0	16862.0	21120.5	25221.7	28739.7	29446.6	32878.6	34359.7	28532.0
65°	10052.6	10241.4	12035.0	16184.4	22114.9	28179.6	33027.6	32584.9	36008.5	37122.4	29778.1
66°	9328.9	9513.5	11239.9	15387.3	21884.1	29018.7	34546.4	33556.2	36709.2	37581.9	29534.7
67.5°	8005.2	8149.9	9696.0	13602.1	20656.9	29253.6	35823.9	34286.2	36782.6	37091.0	28143.9
70°	5057.8	5099.7	6301.8	9389.7	15636.9	25370.6	33879.3	32473.7	33749.2	32914.3	23593.8
72.5°	2194.3	2179.6	3025.0	4776.7	8852.7	17023.5	27405.5	26795.0	26474.1	24569.3	16515.9
75°	1220.9	1237.7	1571.2	2217.4	3597.7	8361.8	17927.7	17155.7	14485.2	12360.2	7489.1
77.5°	979.7	1002.7	1302.7	1573.3	1615.3	2915.9	8389.1	6826.2	4109.6	3297.7	2081.0
80°	774.1	816.0	1137.0	1225.1	1088.8	1202.0	2710.3	2167.0	1625.8	1491.5	1078.3
82.5°	612.6	641.9	975.5	927.2	761.5	809.7	1298.5	1265.0	1057.3	962.9	623.0
85°	440.5	495.1	801.4	698.6	499.3	545.4	862.2	826.5	606.3	495.1	274.8
87.5°	180.4	235.0	566.4	463.6	279.0	253.8	430.0	404.9	287.4	209.8	136.4
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°	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9	6326.9
2.5°	6320.6	6371.0	6436.0	6475.9	6496.8	6511.5	6534.6	6532.5	6538.8	6540.9	6549.3
5°	6362.6	6446.5	6540.9	6566.1	6566.1	6543.0	6519.9	6482.2	6467.5	6463.3	6467.5
7.5°	6471.7	6564.0	6645.8	6616.4	6553.5	6461.2	6341.6	6236.7	6180.1	6161.2	6157.0
10°	6610.1	6721.3	6754.9	6643.7	6459.1	6236.7	5999.7	5827.7	5729.1	5701.8	5693.4
12.5°	6778.0	6882.8	6836.7	6601.7	6259.8	5901.1	5573.8	5299.0	5093.4	5028.4	5024.2
15°	6962.6	7044.4	6882.8	6471.7	5961.9	5433.3	4850.1	4376.0	4120.1	4038.2	4031.9
17.5°	7134.6	7176.5	6855.6	6245.1	5523.5	4667.6	3893.5	3528.5	3440.4	3461.3	3465.5
20°	7281.4	7281.4	6763.3	5920.0	4833.3	3658.5	3169.8	3163.5	3226.4	3289.3	3301.9
22.5°	7442.9	7346.5	6601.7	5460.5	3855.7	2993.5	2922.2	2981.0	3052.3	3121.5	3132.0
25°	7642.2	7398.9	6377.3	4764.1	3031.3	2718.7	2746.0	2794.3	2829.9	2874.0	2880.3
27.5°	7864.6	7466.0	6081.5	3805.4	2630.6	2546.7	2567.7	2584.5	2580.3	2597.1	2601.3
30°	8131.0	7543.6	5676.6	2974.7	2464.9	2399.9	2362.1	2347.4	2347.4	2374.7	2385.2
32.5°	8487.6	7659.0	5095.5	2548.8	2385.2	2295.0	2173.3	2118.8	2139.7	2232.0	2253.0
35°	8879.9	7782.8	4308.9	2404.1	2368.4	2246.7	2057.9	1957.2	1959.3	2045.3	2072.6
37.5°	9307.9	7940.1	3446.7	2376.8	2406.2	2248.8	1997.1	1858.6	1802.0	1802.0	1812.5
40°	9855.4	8101.7	2790.1	2395.7	2485.9	2274.0	1965.6	1781.0	1621.6	1625.8	1634.2
42.5°	10568.7	8240.1	2437.6	2435.5	2582.4	2307.6	1963.5	1678.2	1539.8	1634.2	1720.2
45°	11361.6	8309.3	2282.4	2471.2	2660.0	2328.5	1930.0	1661.4	1550.3	1831.4	1995.0
47.5°	12274.2	8269.5	2196.4	2483.8	2678.9	2328.5	1892.2	1701.3	1623.7	2120.9	2311.8
50°	13274.8	8154.1	2112.5	2458.6	2672.6	2324.3	1927.9	1741.2	1651.0	2171.2	2303.4
52.5°	14451.7	8057.6	2024.4	2404.1	2628.5	2301.3	1969.8	1724.4	1564.9	1974.0	2066.3
55°	15794.2	8084.9	1925.8	2326.4	2559.3	2257.2	1955.1	1657.3	1474.7	1739.1	1795.7
57.5°	17510.2	8410.0	1808.3	2227.8	2464.9	2183.8	1902.7	1625.8	1447.5	1577.5	1611.1
60°	19425.5	8976.4	1661.4	2129.3	2347.4	2066.3	1862.8	1640.5	1460.1	1564.9	1581.7
62.5°	20831.0	9305.8	1535.6	1984.5	2188.0	1936.3	1812.5	1659.3	1493.6	1609.0	1604.8
65°	21212.8	8764.6	1378.2	1772.6	1971.9	1799.9	1749.6	1680.3	1508.3	1644.7	1625.8
66°	20677.9	8181.4	1309.0	1674.0	1862.8	1732.8	1718.1	1678.2	1502.0	1648.9	1617.4
67.5°	19379.4	6985.6	1189.4	1529.3	1688.7	1632.1	1667.7	1659.3	1485.2	1644.7	1600.6
70°	15804.7	4766.2	1017.4	1273.4	1405.5	1437.0	1571.2	1592.2	1430.7	1571.2	1474.7
72.5°	11042.8	2903.3	900.0	988.1	1137.0	1225.1	1439.1	1499.9	1357.3	1372.0	1279.7
75°	5336.8	1541.9	816.0	765.7	883.2	1023.7	1279.7	1374.1	1241.9	1147.5	1113.9
77.5°	1663.5	941.9	692.3	616.7	692.3	826.5	1069.9	1204.1	1105.5	960.8	948.2
80°	893.7	692.3	532.8	495.1	547.5	648.2	841.2	1004.8	950.3	862.2	769.9
82.5°	589.5	448.9	394.4	383.9	417.5	495.1	625.1	832.8	832.8	738.4	537.0
85°	304.2	274.8	270.6	270.6	291.6	329.4	425.9	641.9	683.9	390.2	323.1
87.5°	151.0	157.3	146.8	153.1	163.6	161.5	203.5	323.1	386.0	237.0	197.2
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)