

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: P191478

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191478
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-10-LED-E1-T3R-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40599.9 lumens
Efficiency: N/A
Efficacy: 125.7 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): 323
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

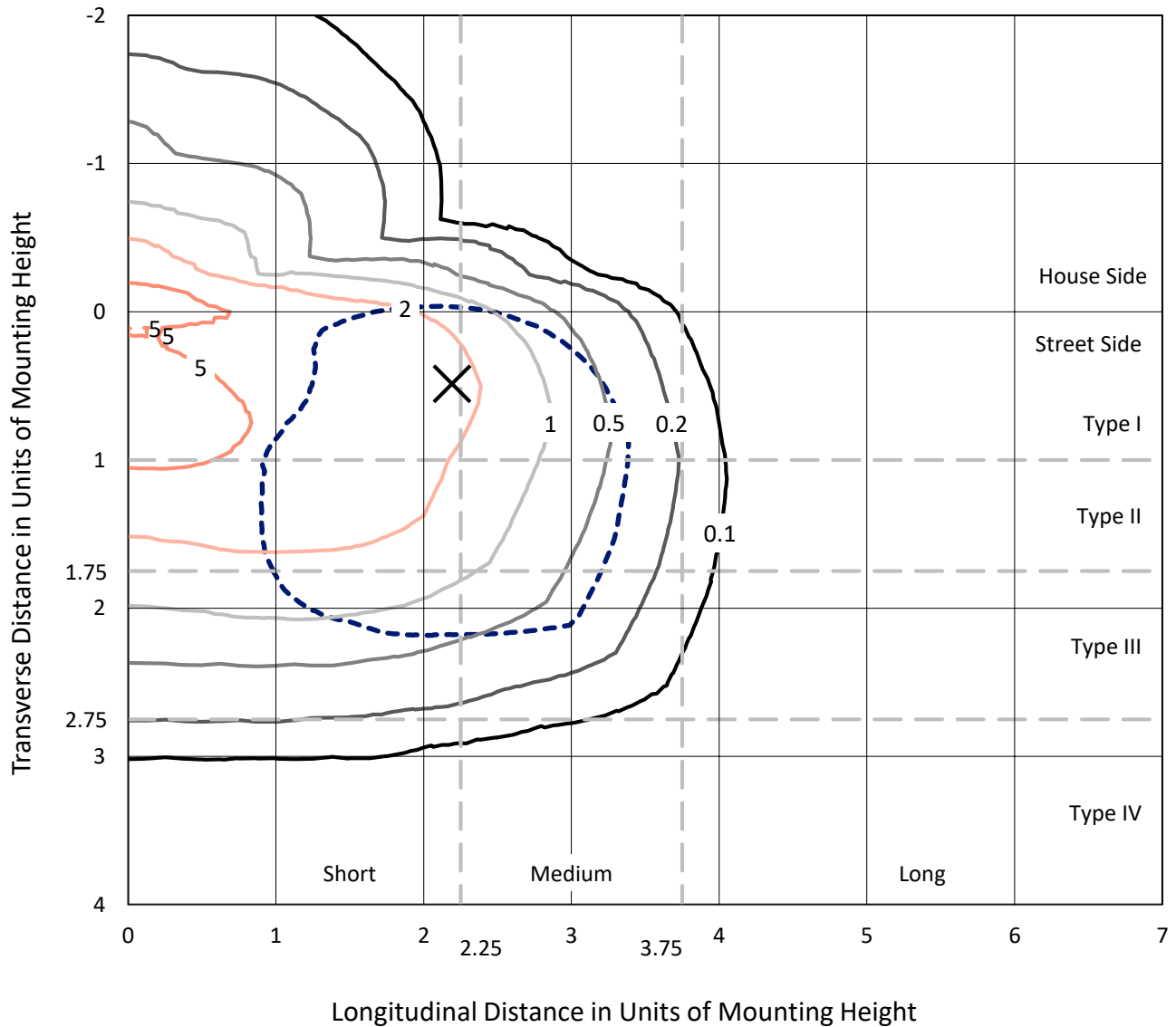


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

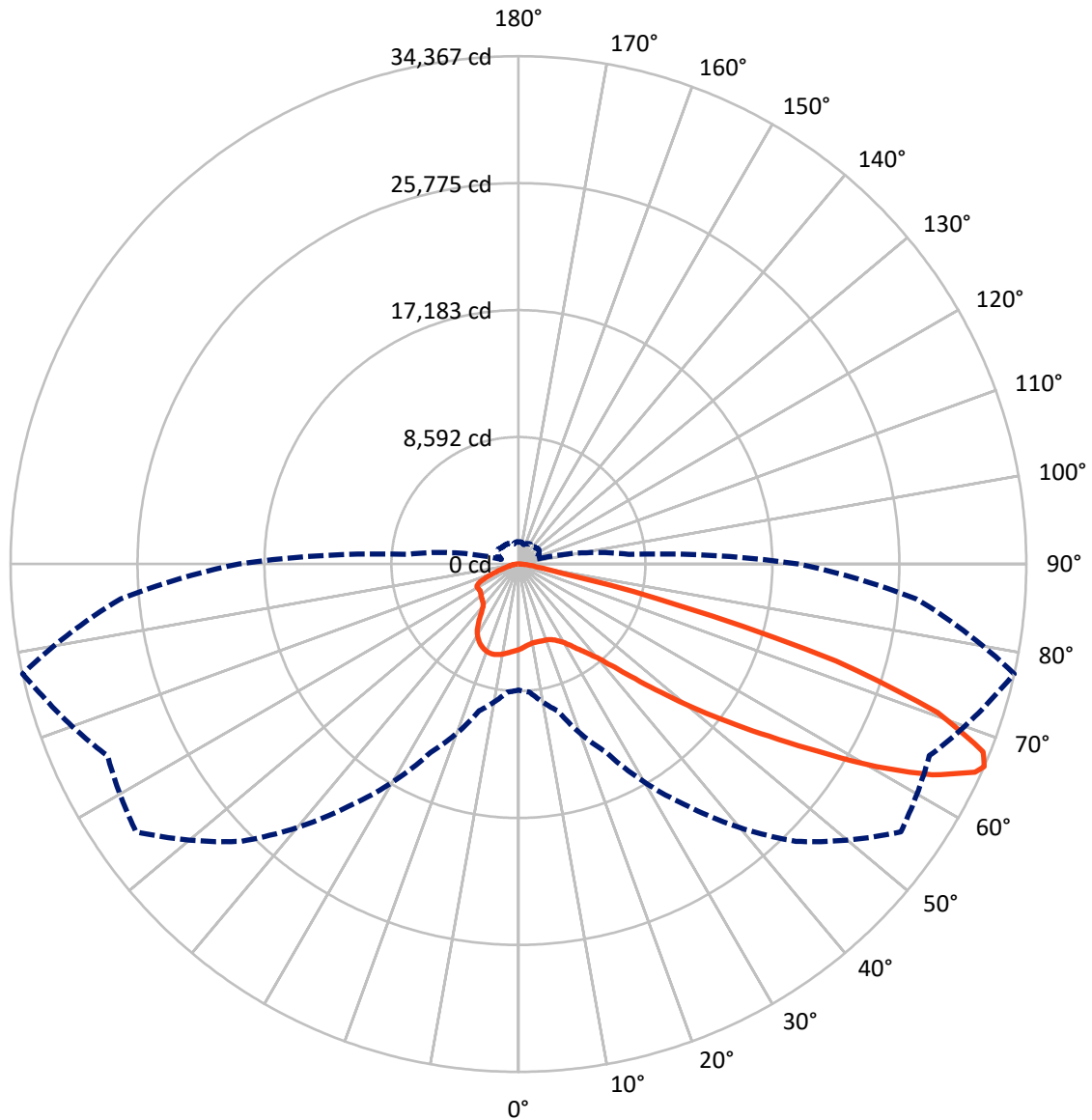


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - Full Cutoff

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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	6936.2	0.0	6936.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	33663.7	0.0	33663.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	40599.9	0.0	40599.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.9	1.3
10°-20°	1458.3	3.6
20°-30°	2488.8	6.1
30°-40°	3984.1	9.8
40°-50°	6155.0	15.2
50°-60°	8729.9	21.5
60°-70°	11678.2	28.8
70°-80°	5071.6	12.5
80°-90°	517.1	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°	40599.9	100.0
0°-180°	40599.9	100.0



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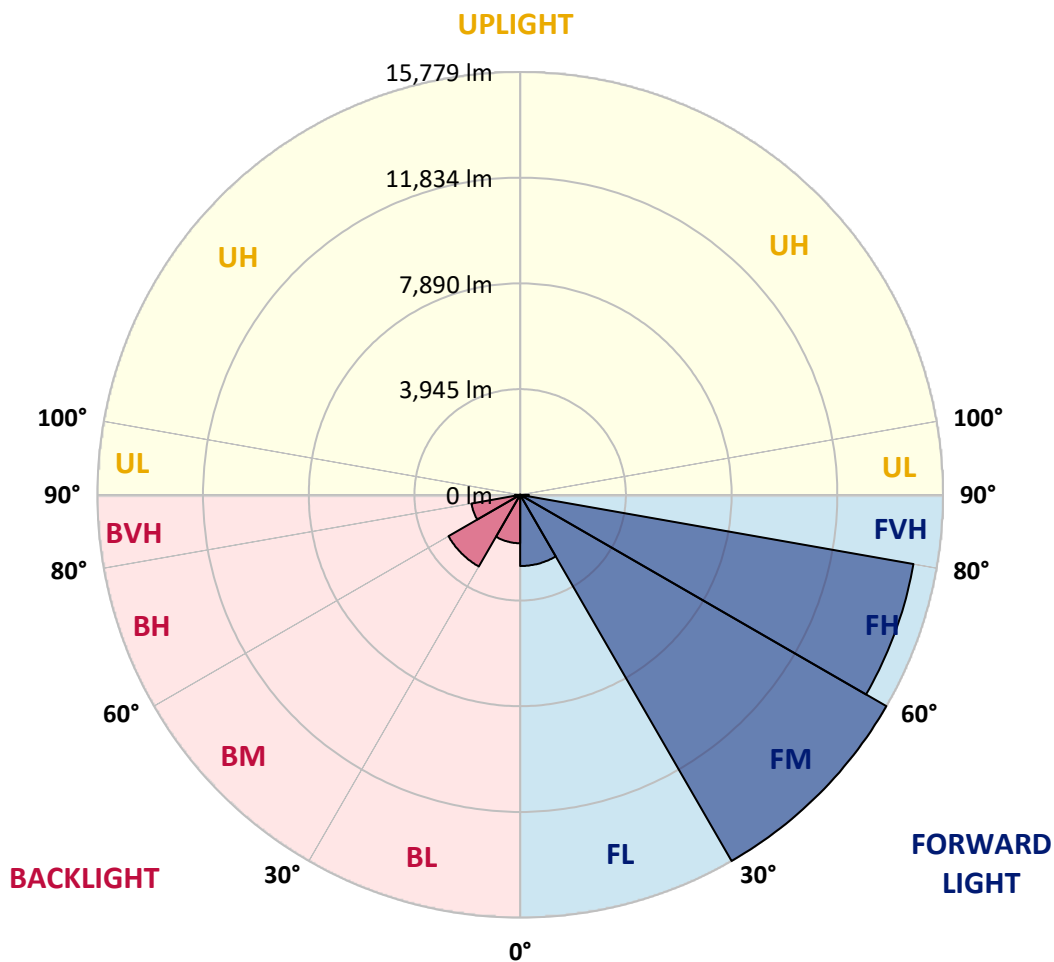
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2657.4	6.5			
FM	(30°-60°)	15779.2	38.9			
FH	(60°-80°)	14902.6	36.7			G5
FVH	(80°-90°)	324.3	0.8			G3/500
BL	(0°-30°)	1806.5	4.4	B3/2500		
BM	(30°-60°)	3089.7	7.6	B3/5000		
BH	(60°-80°)	1847.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	192.8	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°	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7
2.5°	5118.1	5152.6	5181.5	5208.3	5262.0	5350.2	5451.9	5534.4	5653.3	5676.4	5739.7
5°	4648.1	4648.1	4671.1	4711.4	4784.3	4916.7	5054.8	5238.9	5498.0	5559.3	5728.1
7.5°	4419.9	4421.7	4435.2	4469.7	4533.0	4653.9	4805.4	5022.2	5373.3	5474.9	5762.7
10°	4504.3	4485.0	4456.3	4439.0	4448.6	4519.6	4663.4	4905.2	5296.5	5427.0	5839.4
12.5°	4976.1	4939.7	4840.0	4707.6	4581.0	4529.2	4613.6	4849.5	5263.9	5415.4	5941.1
15°	5747.3	5732.0	5545.9	5271.6	4964.6	4707.6	4650.0	4828.4	5267.7	5428.9	6061.9
17.5°	6714.1	6693.1	6447.5	6048.5	5547.8	5047.1	4778.5	4845.7	5281.2	5451.9	6178.9
20°	7690.5	7625.4	7360.6	6884.9	6242.3	5509.4	4991.5	4889.8	5298.4	5476.8	6301.7
22.5°	8419.5	8365.8	8128.0	7665.7	6925.2	6044.6	5277.3	4966.5	5354.0	5549.7	6453.3
25°	9060.3	9064.1	8828.2	8381.1	7615.8	6612.5	5645.7	5171.8	5496.0	5699.4	6660.4
27.5°	9852.6	9806.5	9585.9	9142.7	8298.7	7186.0	6090.6	5453.8	5707.0	5912.2	6932.8
30°	10800.2	10767.6	10512.5	10009.9	9056.4	7801.8	6599.1	5781.8	5979.5	6192.3	7289.6
32.5°	11914.7	11899.4	11634.6	10988.2	9931.2	8527.0	7195.6	6215.3	6386.1	6606.7	7801.8
35°	13223.1	13224.9	12912.3	12135.4	10888.4	9371.0	7872.8	6773.6	6881.1	7111.2	8411.8
37.5°	14028.7	14126.5	14009.5	13217.2	11972.3	10314.8	8751.4	7514.1	7445.0	7677.1	9066.0
40°	14201.4	14320.3	14690.6	14287.8	13184.7	11354.5	9530.2	8225.8	8139.5	8423.4	9908.2
42.5°	13959.7	14124.7	14907.4	15191.2	14471.9	12636.0	10577.6	9282.8	9173.4	9555.2	10955.6
45°	13815.8	13938.5	14844.0	15661.3	15588.3	14084.4	11910.9	10610.3	10569.9	11070.7	12164.1
47.5°	13566.4	13677.7	14548.6	15770.5	16244.4	15411.9	13512.7	12233.2	12311.8	12967.9	13528.0
50°	13700.7	13746.7	14218.6	15492.4	16434.3	16384.4	15302.5	14113.1	14381.7	15200.8	15072.3
52.5°	13681.6	13800.4	14180.2	15035.8	16459.3	16984.9	17065.5	16209.9	16775.8	17715.8	16785.4
55°	11061.1	11279.8	13729.4	14920.8	16547.5	17573.8	18634.7	18419.8	19474.8	20570.2	18719.1
57.5°	10562.3	10700.5	12058.6	15162.5	17015.6	18697.9	20380.4	20852.2	22617.1	23889.0	21074.7
60°	10464.5	10635.2	12041.4	15457.9	17965.2	20529.9	22968.1	23796.9	26440.3	27833.1	23806.4
62.5°	10159.4	10343.7	11928.1	15419.6	19313.7	23064.1	26281.1	26927.5	30066.0	31420.3	26091.2
65°	9192.6	9365.3	11005.4	14800.0	20223.0	25768.9	30202.1	29797.4	32928.1	33946.7	27230.6
66°	8530.8	8699.6	10278.4	14070.9	20012.0	26536.3	31591.1	30685.6	33568.8	34366.9	27008.2
67.5°	7320.3	7452.7	8866.5	12438.5	18889.8	26751.1	32759.3	31353.1	33636.0	33918.0	25736.3
70°	4625.1	4663.4	5762.7	8586.4	14299.2	23200.2	30981.0	29695.8	30862.0	30098.6	21575.5
72.5°	2006.6	1993.1	2766.3	4368.0	8095.3	15567.3	25061.1	24502.8	24209.3	22467.5	15102.9
75°	1116.4	1131.8	1436.8	2027.7	3289.9	7646.5	16394.0	15688.1	13246.1	11302.8	6848.5
77.5°	895.9	917.0	1191.3	1438.8	1477.1	2666.5	7671.4	6242.3	3758.0	3015.7	1903.0
80°	707.9	746.2	1039.7	1120.3	995.6	1099.2	2478.5	1981.7	1486.7	1363.9	986.0
82.5°	560.2	587.0	892.0	847.9	696.3	740.5	1187.4	1156.8	966.8	880.6	569.8
85°	402.8	452.8	732.8	638.8	456.5	498.8	788.4	755.9	554.4	452.8	251.3
87.5°	165.0	214.8	517.9	423.9	255.1	232.1	393.2	370.2	262.8	191.8	124.7
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°	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7	5785.7
2.5°	5779.9	5826.0	5885.4	5921.9	5941.1	5954.5	5975.6	5973.6	5979.5	5981.4	5989.1
5°	5818.3	5895.1	5981.4	6004.4	6004.4	5983.2	5962.2	5927.6	5914.2	5910.4	5914.2
7.5°	5918.1	6002.5	6077.2	6050.4	5992.9	5908.5	5799.1	5703.2	5651.4	5634.1	5630.3
10°	6044.6	6146.3	6177.0	6075.3	5906.5	5703.2	5486.4	5329.2	5238.9	5214.0	5206.3
12.5°	6198.2	6294.0	6251.9	6036.9	5724.3	5396.3	5097.0	4845.7	4657.7	4598.3	4594.4
15°	6366.9	6441.7	6294.0	5918.1	5451.9	4968.5	4435.2	4001.7	3767.6	3692.8	3687.0
17.5°	6524.3	6562.6	6269.1	5710.8	5050.9	4268.3	3560.4	3226.6	3146.1	3165.2	3169.1
20°	6658.5	6658.5	6184.7	5413.6	4419.9	3345.6	2898.6	2892.8	2950.4	3008.0	3019.4
22.5°	6806.2	6718.0	6036.9	4993.4	3525.9	2737.4	2672.3	2726.0	2791.1	2854.4	2864.1
25°	6988.5	6765.9	5831.7	4356.5	2772.0	2486.2	2511.1	2555.2	2587.9	2628.1	2633.9
27.5°	7191.9	6827.4	5561.3	3479.9	2405.6	2328.8	2348.1	2363.4	2359.5	2374.9	2378.8
30°	7435.4	6898.3	5191.0	2720.2	2254.1	2194.5	2160.1	2146.6	2146.6	2171.5	2181.1
32.5°	7761.5	7003.8	4659.6	2330.8	2181.1	2098.7	1987.4	1937.5	1956.7	2041.1	2060.3
35°	8120.3	7117.0	3940.2	2198.4	2165.8	2054.5	1881.9	1789.8	1791.7	1870.4	1895.3
37.5°	8511.7	7260.9	3151.8	2173.5	2200.4	2056.4	1826.3	1699.6	1647.9	1647.9	1657.4
40°	9012.3	7408.6	2551.3	2190.8	2273.2	2079.5	1797.4	1628.6	1482.9	1486.7	1494.4
42.5°	9664.5	7535.2	2229.1	2227.2	2361.5	2110.1	1795.6	1534.6	1408.1	1494.4	1573.0
45°	10389.7	7598.5	2087.1	2259.8	2432.5	2129.4	1764.9	1519.3	1417.6	1674.7	1824.3
47.5°	11224.1	7562.1	2008.5	2271.3	2449.7	2129.4	1730.3	1555.8	1484.8	1939.4	2114.0
50°	12139.2	7456.5	1931.7	2248.2	2443.9	2125.5	1763.0	1592.2	1509.8	1985.4	2106.4
52.5°	13215.4	7368.3	1851.2	2198.4	2403.6	2104.4	1801.3	1576.9	1431.1	1805.1	1889.6
55°	14443.0	7393.3	1761.0	2127.4	2340.4	2064.1	1787.9	1515.5	1348.6	1590.3	1642.0
57.5°	16012.2	7690.5	1653.6	2037.3	2254.1	1997.0	1739.9	1486.7	1323.6	1442.6	1473.3
60°	17763.7	8208.6	1519.3	1947.1	2146.6	1889.6	1703.5	1500.2	1335.2	1431.1	1446.5
62.5°	19049.0	8509.7	1404.2	1814.7	2000.8	1770.6	1657.4	1517.4	1365.8	1471.3	1467.5
65°	19398.1	8014.8	1260.4	1621.0	1803.3	1645.9	1599.9	1536.6	1379.2	1503.9	1486.7
66°	18908.9	7481.5	1197.1	1530.8	1703.5	1584.6	1571.2	1534.6	1373.5	1507.8	1479.0
67.5°	17721.5	6388.0	1087.7	1398.5	1544.2	1492.5	1525.1	1517.4	1358.2	1503.9	1463.6
70°	14452.7	4358.5	930.4	1164.4	1285.2	1314.1	1436.8	1456.0	1308.3	1436.8	1348.6
72.5°	10098.1	2655.0	823.0	903.6	1039.7	1120.3	1315.9	1371.6	1241.1	1254.5	1170.2
75°	4880.2	1409.9	746.2	700.2	807.6	936.1	1170.2	1256.5	1135.7	1049.3	1018.7
77.5°	1521.2	861.3	633.0	564.0	633.0	755.9	978.4	1101.1	1011.0	878.6	867.1
80°	817.2	633.0	487.2	452.8	500.7	592.8	769.3	918.9	869.0	788.4	704.0
82.5°	539.1	410.5	360.7	351.1	381.8	452.8	571.6	761.6	761.6	675.2	491.1
85°	278.1	251.3	247.5	247.5	266.7	301.2	389.4	587.0	625.3	356.8	295.4
87.5°	138.1	143.8	134.3	140.0	149.7	147.7	186.1	295.4	353.0	216.8	180.3
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)