

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: P269696

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42428.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

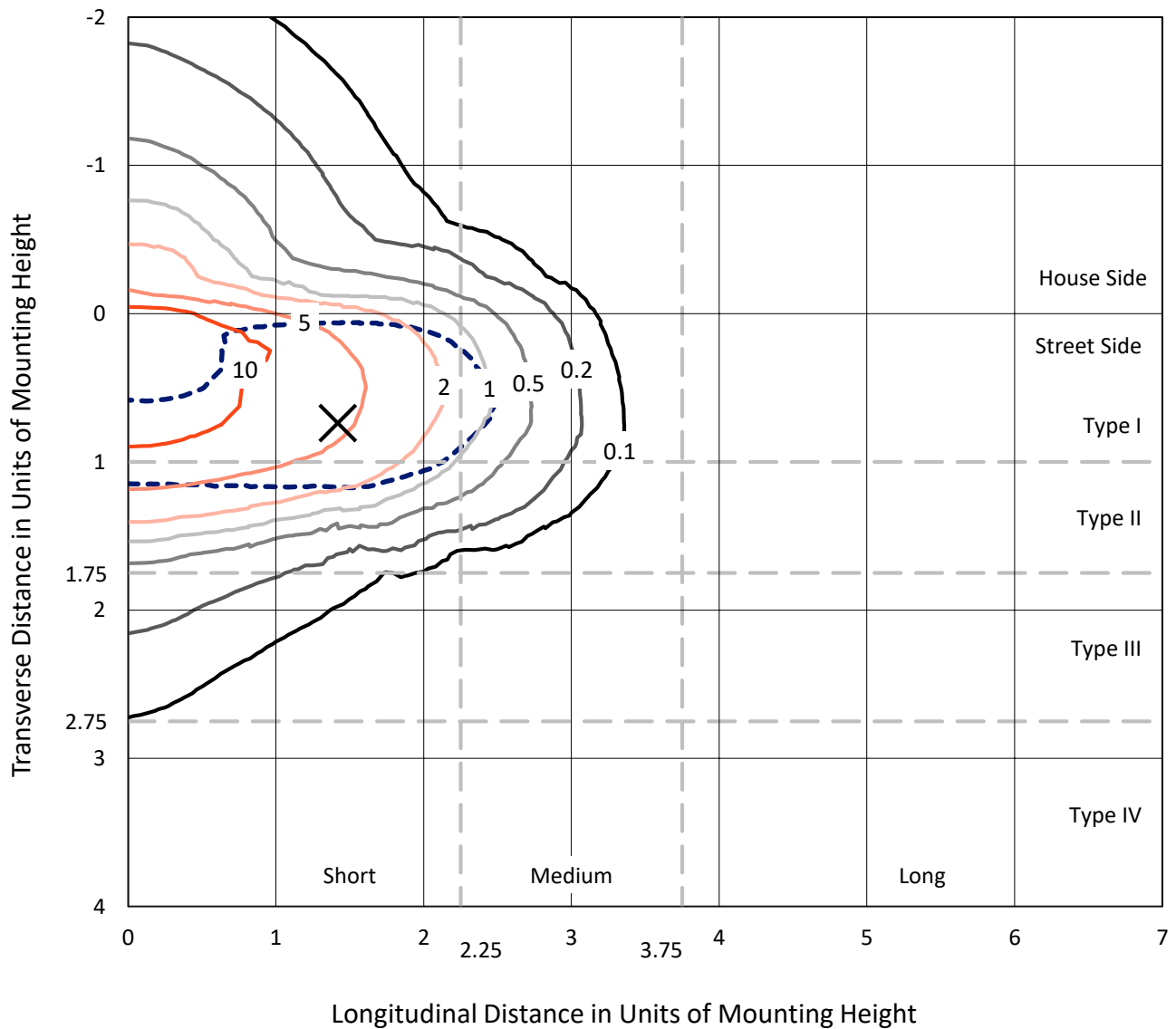
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

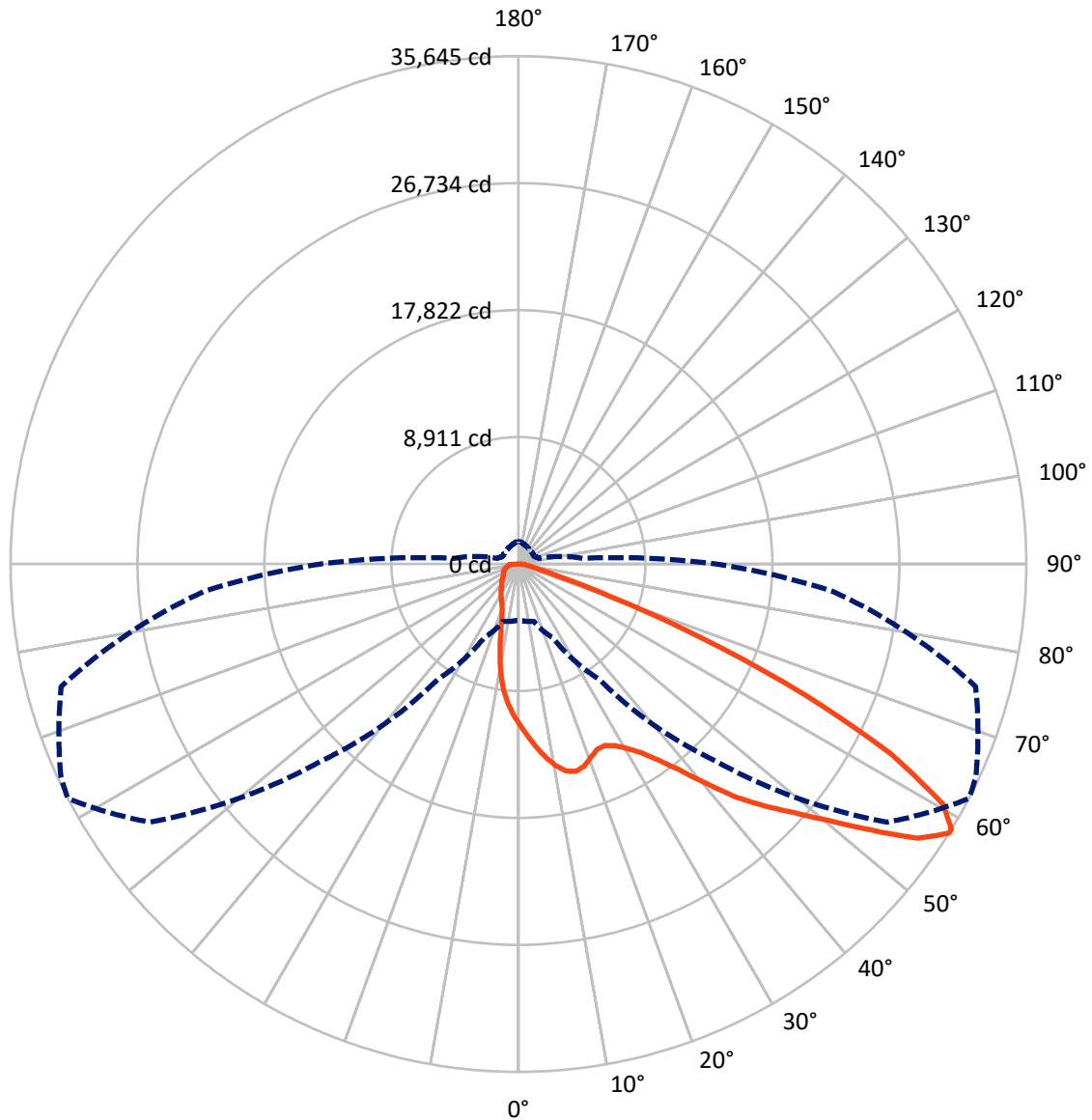
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6470.5	0.0	6470.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	35957.9	0.0	35957.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	42428.5	0.0	42428.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.0	2.4
10°-20°	2576.5	6.1
20°-30°	4165.0	9.8
30°-40°	6611.9	15.6
40°-50°	9674.6	22.8
50°-60°	10118.8	23.8
60°-70°	5978.2	14.1
70°-80°	1684.1	4.0
80°-90°	611.4	1.4
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°	42428.5	100.0
0°-180°	42428.5	100.0



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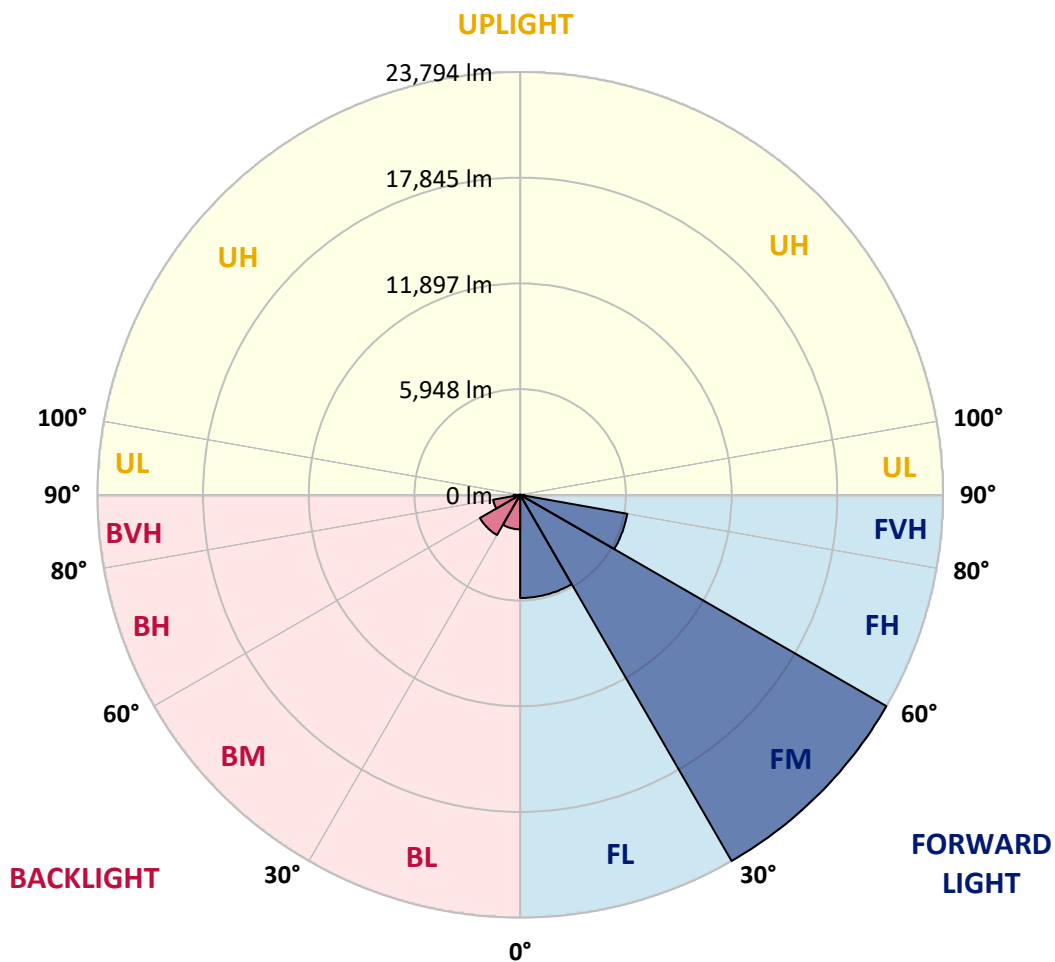
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5804.7	13.7			
FM (30°-60°)	23793.6	56.1			
FH (60°-80°)	6118.4	14.4			G3/7500
FVH (80°-90°)	241.2	0.6			G3/500
BL (0°-30°)	1944.7	4.6	B3/2500		
BM (30°-60°)	2611.7	6.2	B3/5000		
BH (60°-80°)	1543.9	3.6	B3/2500		G3/2500
BVH (80°-90°)	370.2	0.9			G3/500
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°	55°	62.5°	65°	75°	85°
0°	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2
2.5°	12878.6	12774.6	12708.7	12650.8	12575.0	12413.0	12195.3	12057.4	11987.5	11749.8	11468.0
5°	14141.3	14049.3	13981.4	13903.4	13767.7	13513.9	13162.2	12882.6	12744.8	12269.2	11705.9
7.5°	13845.5	13883.6	14001.4	14207.2	14383.0	14349.0	14035.4	13679.7	13497.9	12836.6	11981.6
10°	12063.3	12129.4	12333.2	12814.6	13593.8	14393.1	14636.8	14390.9	14207.2	13398.0	12265.2
12.5°	11705.9	11703.7	11719.7	11847.7	12311.2	13435.9	14656.7	14904.5	14794.5	13933.5	12554.9
15°	11851.7	11855.7	11843.7	11897.6	12041.5	12487.0	14045.4	15102.2	15180.2	14473.0	12854.6
17.5°	12235.3	12225.3	12179.3	12179.3	12231.2	12405.1	13326.1	14918.4	15278.1	14950.4	13118.3
20°	12878.6	12832.6	12710.7	12598.9	12542.9	12636.8	13030.5	14495.0	15108.2	15367.9	13336.1
22.5°	13657.8	13621.8	13424.0	13184.2	12990.5	12988.5	13182.3	14125.3	14814.6	15761.7	13519.9
25°	14664.7	14606.8	14313.1	13929.5	13589.9	13459.9	13513.9	14107.3	14654.7	16189.2	13683.7
27.5°	15847.4	15741.5	15394.0	14840.4	14341.0	14079.3	14001.4	14433.0	14800.6	16718.5	13911.5
30°	17282.0	17160.1	16714.7	15993.3	15288.1	14858.5	14692.7	15010.4	15284.1	17363.9	14277.1
32.5°	18914.4	18738.5	18222.9	17427.8	16500.7	15845.6	15575.8	15773.6	15991.4	18141.1	14734.7
35°	21169.9	20960.2	20215.0	19118.1	18071.2	17170.2	16738.6	16882.3	17094.1	19299.8	15396.0
37.5°	22708.3	22614.4	22119.0	21088.0	19949.2	18912.2	18244.9	18328.8	18448.9	20748.4	16243.1
40°	22694.3	22732.2	22742.3	22752.4	21977.2	20984.1	20266.9	20178.9	20155.0	22338.7	17206.0
42.5°	21557.5	21713.4	22216.8	23237.7	23709.2	23253.7	22596.4	22342.7	22216.8	24212.7	18227.0
45°	19817.4	19901.3	20844.4	22838.1	24596.4	25501.4	25004.0	24204.8	23977.0	25935.0	19074.2
47.5°	18920.3	19012.2	19605.6	21779.2	24586.4	27317.5	27605.3	26082.8	25675.3	27433.3	19805.4
50°	16784.6	16976.3	17723.5	19937.3	23689.4	28152.6	30324.4	28320.4	27477.4	28891.8	20538.6
52.5°	12862.7	13158.4	13995.5	16908.3	21413.6	27739.1	32500.0	31033.7	29843.0	30402.3	21167.9
55°	8113.5	8333.2	9036.6	11941.6	17130.1	25587.3	33325.3	33968.6	32909.6	31832.9	21713.4
57.5°	4411.3	4509.3	4773.1	6593.1	11142.3	20830.3	32122.5	35638.8	35199.4	33047.6	22125.0
58°	3948.0	4013.8	4177.7	5714.1	9881.7	19529.6	31589.1	35644.8	35425.1	33225.4	22157.0
60°	2929.0	2895.0	2749.2	3260.6	5500.2	13492.0	28364.4	34218.3	34863.7	33443.2	22001.1
62.5°	2573.4	2491.4	2193.8	2159.7	2675.2	6215.6	21703.4	29311.4	30835.8	32200.5	21054.0
65°	2417.5	2329.6	1946.0	1822.1	1930.0	2629.2	12784.7	21983.1	23895.2	28432.3	18632.6
67.5°	2301.5	2187.7	1788.2	1618.2	1626.3	1738.2	5124.7	13845.5	15997.3	21587.4	14493.0
70°	2189.7	2065.8	1654.3	1458.5	1412.6	1374.5	2037.8	6930.8	8882.7	13635.8	9240.3
72.5°	2069.9	1948.0	1536.5	1332.6	1242.7	1116.9	1330.6	2835.1	3959.9	6451.3	4191.6
75°	1896.1	1786.1	1418.6	1220.7	1092.9	925.1	1004.9	1480.4	1776.2	2569.3	2019.8
77.5°	1682.3	1592.3	1286.6	1128.8	969.0	751.3	773.3	1026.9	1138.8	1470.4	1200.8
80°	1208.7	1240.6	1144.8	1014.9	863.1	609.4	593.4	749.2	809.2	944.9	781.2
82.5°	849.1	867.1	947.1	829.1	713.3	479.4	437.6	527.5	563.3	621.4	421.6
85°	585.3	565.5	649.4	577.4	515.4	319.6	299.7	357.6	379.7	385.6	217.7
87.5°	351.6	351.6	375.6	309.6	277.8	165.8	161.9	203.7	217.7	207.8	119.8
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°	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2	11270.2
2.5°	11300.1	11158.3	10856.6	10614.9	10309.3	9991.6	9813.8	9624.0	9494.0	9400.3	9550.1
5°	11386.1	11096.5	10473.1	9881.7	9228.4	8549.1	8033.6	7554.1	7220.4	7012.7	7208.4
7.5°	11522.0	11076.5	10083.5	9072.5	7899.8	6769.0	5758.0	5124.7	4755.1	4573.2	4687.1
10°	11677.8	11044.5	9626.0	7975.7	6297.5	4872.9	4117.7	3862.0	3778.0	3744.0	3760.0
12.5°	11807.7	10976.6	9064.5	6649.1	4729.0	3848.0	3630.2	3624.2	3642.2	3646.2	3652.1
15°	11899.6	10876.7	8231.3	5266.6	3782.0	3506.4	3494.3	3530.2	3564.2	3578.3	3586.3
17.5°	11961.6	10670.8	7290.5	4163.6	3388.4	3340.4	3368.5	3414.5	3450.4	3460.5	3468.4
20°	11955.5	10369.1	6169.6	3472.4	3174.7	3174.7	3222.6	3258.6	3260.6	3248.6	3254.6
22.5°	11893.6	9955.6	5082.7	3104.7	2984.9	3018.8	3066.9	3032.9	2893.0	2801.1	2807.1
25°	11789.7	9462.1	4151.6	2871.1	2809.1	2868.9	2855.1	2599.2	2399.6	2309.6	2309.6
27.5°	11697.8	8878.8	3436.5	2667.2	2633.2	2707.2	2459.4	2227.6	2143.7	2101.9	2087.8
30°	11631.9	8249.5	2958.8	2471.4	2467.5	2413.4	2133.7	2069.9	2055.9	2021.8	2009.9
32.5°	11647.9	7612.1	2653.2	2299.7	2313.6	2065.8	1978.0	1991.9	1980.0	1944.0	1928.0
35°	11779.7	7006.7	2453.5	2143.7	2101.9	1866.0	1886.0	1912.0	1908.0	1858.1	1842.1
37.5°	12015.5	6433.3	2321.6	2013.9	1834.1	1766.2	1798.1	1838.1	1828.1	1794.2	1782.1
40°	12263.2	5893.9	2213.8	1912.0	1676.2	1698.2	1726.3	1748.2	1758.2	1768.1	1760.1
42.5°	12504.9	5330.5	2081.8	1808.1	1610.3	1634.2	1646.2	1668.2	1722.2	1760.1	1758.2
45°	12648.9	4801.0	1946.0	1660.2	1558.4	1572.4	1564.4	1608.3	1674.3	1736.2	1738.2
47.5°	12808.7	4389.4	1838.1	1524.5	1508.4	1518.5	1494.4	1538.3	1598.4	1674.3	1682.3
50°	13002.4	4143.7	1752.1	1416.5	1440.5	1440.5	1434.6	1474.5	1558.4	1646.2	1662.3
52.5°	13222.2	4095.7	1680.3	1338.7	1372.6	1370.5	1376.6	1436.5	1528.3	1614.3	1628.3
55°	13489.9	4225.5	1602.3	1280.7	1306.7	1314.6	1334.6	1402.6	1480.4	1578.3	1584.3
57.5°	13801.6	4489.3	1540.5	1234.7	1246.7	1272.7	1304.7	1366.6	1450.6	1558.4	1564.4
58°	13853.7	4545.2	1530.4	1230.7	1234.7	1264.6	1300.7	1360.7	1444.5	1562.4	1568.4
60°	13855.5	4731.1	1508.4	1212.7	1188.7	1238.8	1278.6	1338.7	1434.6	1576.3	1590.3
62.5°	13364.1	4729.0	1492.4	1186.8	1140.8	1202.7	1248.7	1318.6	1424.5	1610.3	1638.2
65°	11767.7	4297.5	1416.5	1146.7	1102.8	1170.9	1222.8	1304.7	1452.5	1758.2	1776.2
67.5°	9204.5	3522.3	1274.7	1090.8	1053.0	1138.8	1206.8	1302.6	1482.5	1792.1	1804.2
70°	6085.7	2635.3	1118.7	1026.9	1000.9	1100.9	1214.8	1370.5	1448.4	1720.3	1688.3
72.5°	3158.7	1850.1	992.9	947.1	941.1	1066.8	1330.6	1362.5	1414.6	1618.2	1578.3
75°	1658.4	1284.7	883.0	859.0	869.1	1058.9	1570.3	1326.5	1370.5	1548.4	1624.3
77.5°	1014.9	1037.0	789.3	779.2	799.1	1034.8	1568.4	1280.7	1306.7	1424.5	1508.4
80°	679.3	841.2	717.2	719.3	733.2	947.1	1408.5	1208.7	1228.7	1346.6	1432.4
82.5°	429.6	497.5	651.4	685.2	667.4	781.2	1196.7	1100.9	1128.8	1540.5	1628.3
85°	217.7	311.7	565.5	659.4	601.3	547.4	971.0	965.0	979.1	1110.8	1160.8
87.5°	99.9	171.8	441.5	575.5	453.6	341.6	705.3	715.3	771.1	789.3	789.3
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)