

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: P192277

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192277
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-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 35848 lumens
Efficiency: N/A
Efficacy: 123.6 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): 290
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

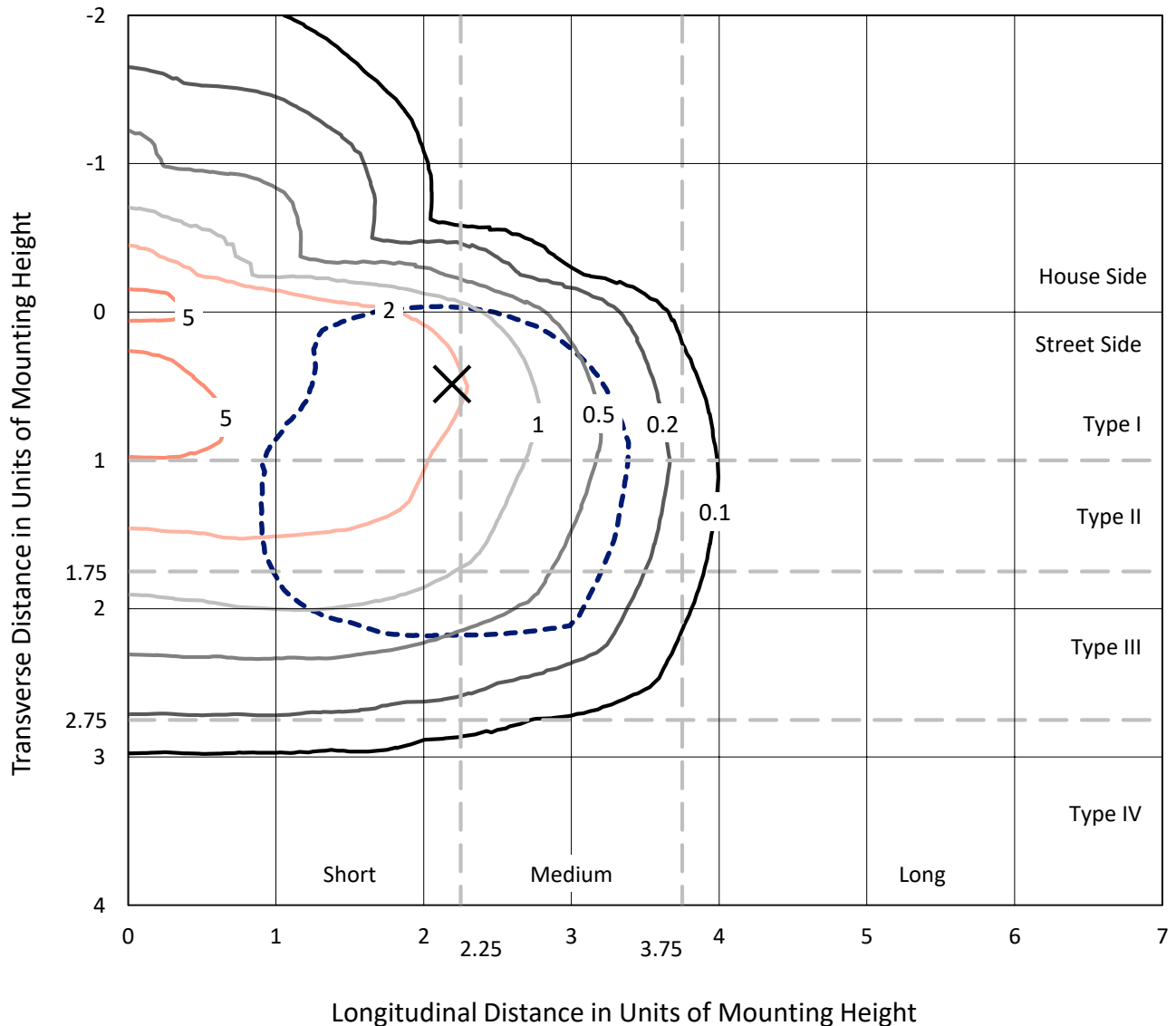


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

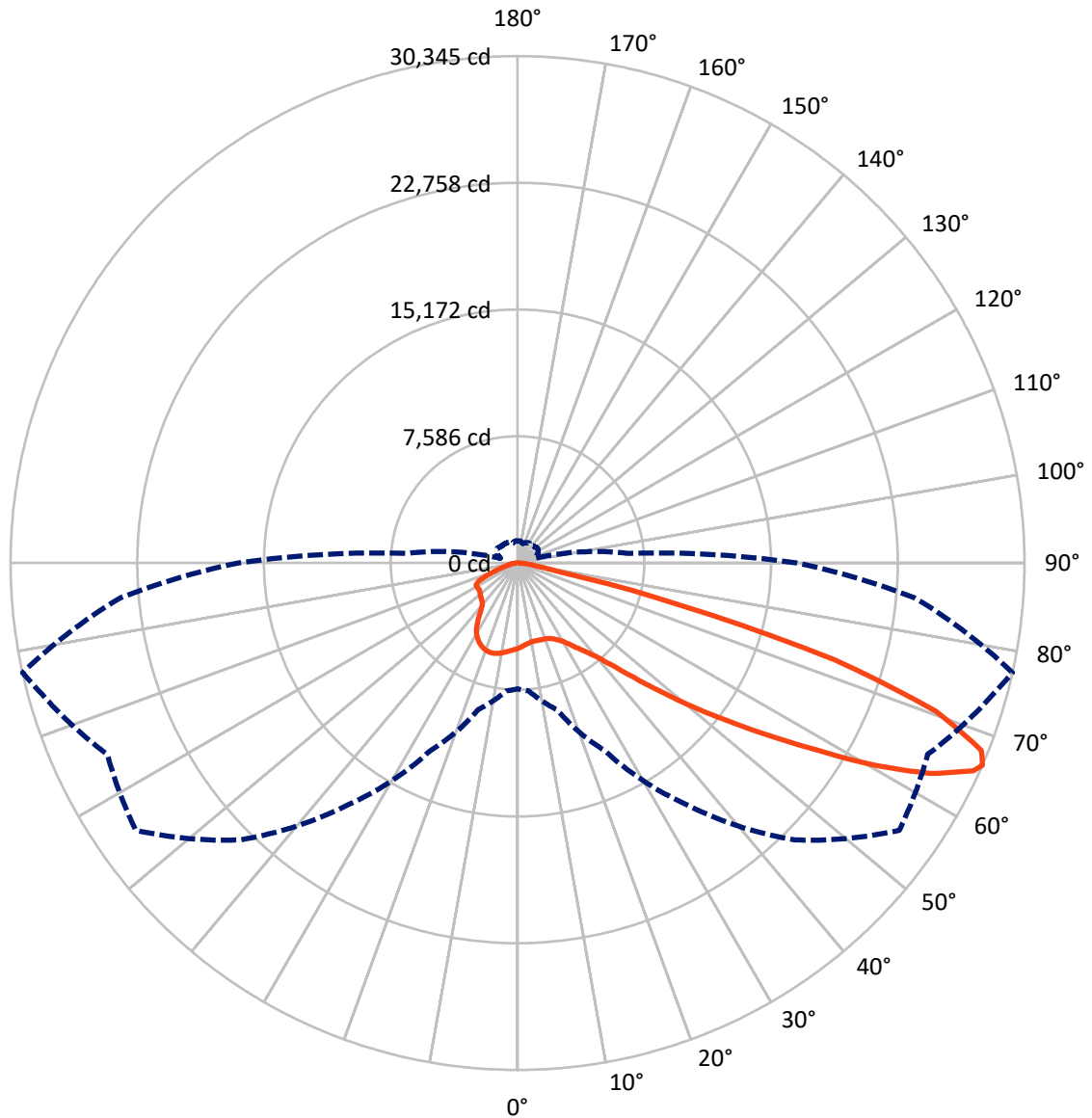


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Full Cutoff

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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	6124.4	0.0	6124.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	29723.6	0.0	29723.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	35848.0	0.0	35848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.4	1.3
10°-20°	1287.6	3.6
20°-30°	2197.5	6.1
30°-40°	3517.8	9.8
40°-50°	5434.6	15.2
50°-60°	7708.1	21.5
60°-70°	10311.4	28.8
70°-80°	4478.0	12.5
80°-90°	456.6	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°	35848.0	100.0
0°-180°	35848.0	100.0



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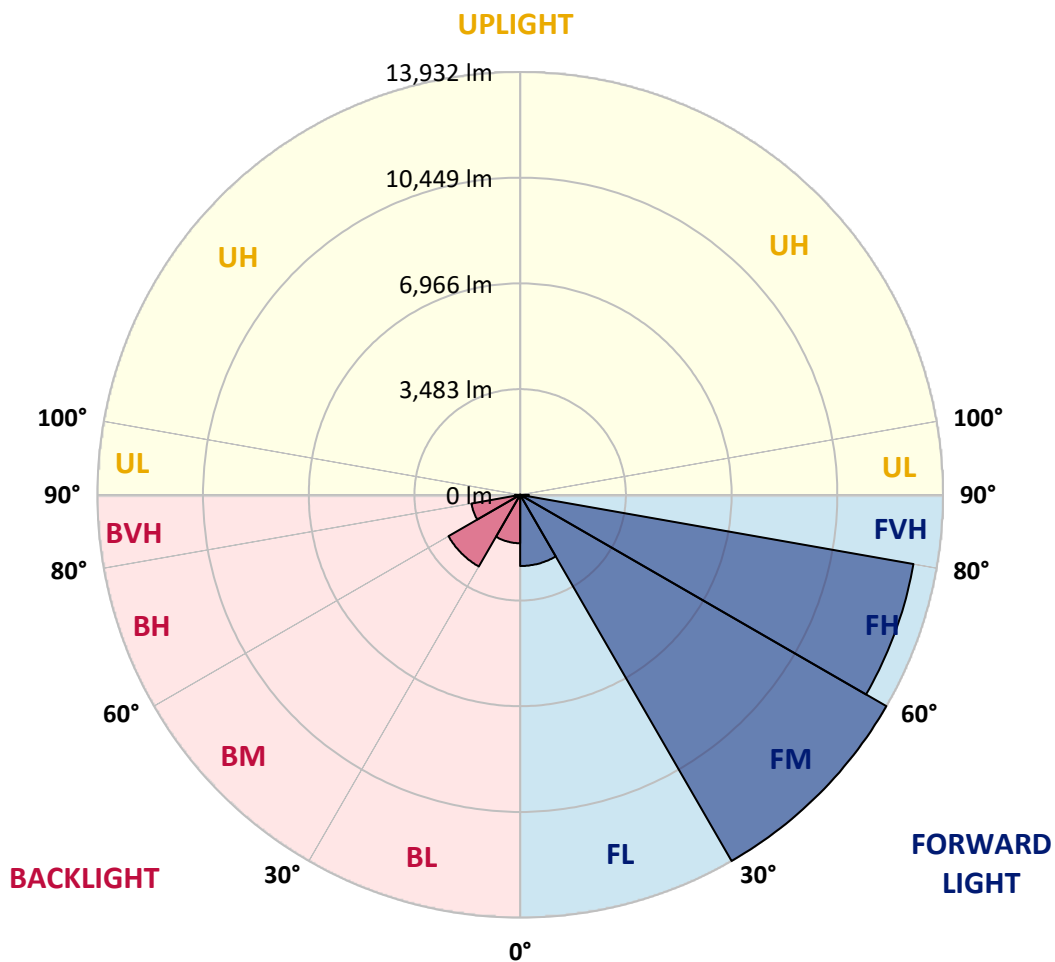
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.4	6.5			
FM	(30°-60°)	13932.4	38.9			
FH	(60°-80°)	13158.4	36.7			G5
FVH	(80°-90°)	286.4	0.8			G3/500
BL	(0°-30°)	1595.0	4.4	B3/2500		
BM	(30°-60°)	2728.1	7.6	B3/5000		
BH	(60°-80°)	1631.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	170.2	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°	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5
2.5°	4519.1	4549.6	4575.0	4598.7	4646.1	4724.0	4813.8	4886.6	4991.6	5012.0	5067.9
5°	4104.1	4104.1	4124.4	4160.0	4224.3	4341.2	4463.2	4625.8	4854.4	4908.6	5057.7
7.5°	3902.5	3904.2	3916.1	3946.6	4002.5	4109.2	4243.0	4434.4	4744.3	4834.1	5088.2
10°	3977.0	3960.1	3934.7	3919.5	3927.9	3990.6	4117.6	4331.1	4676.6	4791.8	5155.9
12.5°	4393.7	4361.5	4273.5	4156.6	4044.8	3999.1	4073.6	4281.9	4647.8	4781.6	5245.7
15°	5074.6	5061.1	4896.8	4654.6	4383.6	4156.6	4105.8	4263.3	4651.2	4793.5	5352.4
17.5°	5928.3	5909.7	5692.9	5340.6	4898.5	4456.4	4219.3	4278.5	4663.0	4813.8	5455.7
20°	6790.5	6732.9	6499.1	6079.1	5511.6	4864.6	4407.3	4317.5	4678.3	4835.8	5564.1
22.5°	7434.1	7386.7	7176.6	6768.4	6114.6	5337.2	4659.7	4385.3	4727.4	4900.2	5698.0
25°	7999.8	8003.2	7794.9	7400.2	6724.4	5838.5	4984.9	4566.5	4852.7	5032.3	5880.9
27.5°	8699.4	8658.7	8463.9	8072.7	7327.4	6345.0	5377.8	4815.5	5039.1	5220.3	6121.4
30°	9536.1	9507.3	9282.0	8838.3	7996.4	6888.7	5826.7	5105.1	5279.6	5467.6	6436.5
32.5°	10520.2	10506.7	10272.9	9702.1	8768.8	7529.0	6353.5	5487.9	5638.7	5833.5	6888.7
35°	11675.4	11677.1	11401.0	10715.0	9614.0	8274.2	6951.4	5980.8	6075.7	6278.9	7427.3
37.5°	12386.8	12473.2	12369.8	11670.3	10571.0	9107.6	7727.1	6634.6	6573.7	6778.6	8004.9
40°	12539.2	12644.2	12971.1	12615.4	11641.5	10025.6	8414.8	7263.0	7186.8	7437.5	8748.5
42.5°	12325.8	12471.5	13162.5	13413.2	12778.1	11157.1	9339.6	8196.3	8099.8	8436.8	9673.3
45°	12198.8	12307.2	13106.6	13828.2	13763.8	12435.9	10516.8	9368.4	9332.9	9774.9	10740.4
47.5°	11978.6	12076.8	12845.8	13924.8	14343.1	13608.0	11931.1	10801.4	10870.8	11450.1	11944.7
50°	12097.1	12137.8	12554.5	13679.2	14510.8	14466.8	13511.5	12461.3	12698.4	13421.7	13308.2
52.5°	12080.2	12185.2	12520.6	13276.0	14532.8	14996.9	15068.1	14312.6	14812.3	15642.3	14820.8
55°	9766.5	9959.6	12122.5	13174.4	14610.7	15516.9	16453.6	16263.9	17195.5	18162.7	16528.1
57.5°	9326.1	9448.0	10647.2	13387.8	15024.0	16509.5	17995.0	18411.6	19969.9	21092.9	18608.1
60°	9239.7	9390.4	10632.0	13648.7	15862.5	18127.1	20279.9	21011.6	23345.7	24575.4	21020.1
62.5°	8970.4	9133.0	10532.1	13614.8	17053.2	20364.6	23205.1	23775.9	26547.0	27742.8	23037.4
65°	8116.7	8269.1	9717.3	13067.7	17856.1	22752.9	26667.2	26309.8	29074.1	29973.5	24043.5
66°	7532.3	7681.4	9075.4	12424.0	17669.8	23430.4	27893.6	27094.1	29639.9	30344.5	23847.1
67.5°	6463.6	6580.4	7828.8	10982.6	16678.9	23620.1	28925.1	27683.5	29699.1	29948.1	22724.1
70°	4083.8	4117.6	5088.2	7581.5	12625.6	20484.9	27354.9	26220.1	27249.9	26575.8	19050.2
72.5°	1771.7	1759.9	2442.5	3856.8	7147.8	13745.2	22127.8	21634.9	21375.8	19837.8	13335.3
75°	985.8	999.3	1268.7	1790.3	2904.9	6751.5	14475.2	13851.9	11695.7	9979.9	6046.9
77.5°	791.0	809.6	1051.9	1270.4	1304.2	2354.4	6773.5	5511.6	3318.2	2662.7	1680.3
80°	625.0	658.9	918.0	989.2	879.1	970.5	2188.4	1749.7	1312.7	1204.3	870.6
82.5°	494.6	518.3	787.6	748.7	614.9	653.8	1048.5	1021.4	853.7	777.5	503.1
85°	355.7	399.7	647.0	564.0	403.1	440.4	696.2	667.4	489.5	399.7	221.9
87.5°	145.7	189.7	457.3	374.3	225.3	205.0	347.2	326.9	232.1	169.4	110.1
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°	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5
2.5°	5103.4	5144.1	5196.6	5228.8	5245.7	5257.6	5276.2	5274.5	5279.6	5281.3	5288.1
5°	5137.3	5205.1	5281.3	5301.6	5301.6	5283.0	5264.3	5233.9	5222.0	5218.6	5222.0
7.5°	5225.4	5299.9	5366.0	5342.3	5291.4	5216.9	5120.4	5035.7	4989.9	4974.7	4971.3
10°	5337.2	5426.9	5454.0	5364.3	5215.2	5035.7	4844.3	4705.4	4625.8	4603.8	4597.0
12.5°	5472.7	5557.4	5520.1	5330.4	5054.3	4764.7	4500.4	4278.5	4112.6	4060.0	4056.7
15°	5621.7	5687.8	5557.4	5225.4	4813.8	4387.0	3916.1	3533.3	3326.6	3260.6	3255.5
17.5°	5760.6	5794.5	5535.3	5042.5	4459.8	3768.7	3143.7	2849.0	2777.8	2794.8	2798.2
20°	5879.2	5879.2	5460.8	4779.9	3902.5	2954.0	2559.3	2554.3	2605.1	2655.9	2666.0
22.5°	6009.6	5931.7	5330.4	4409.0	3113.2	2417.1	2359.5	2406.9	2464.5	2520.4	2528.8
25°	6170.5	5974.0	5149.2	3846.6	2447.5	2195.2	2217.2	2256.1	2284.9	2320.5	2325.6
27.5°	6350.1	6028.2	4910.3	3072.6	2124.0	2056.3	2073.2	2086.8	2083.4	2096.9	2100.3
30°	6565.2	6090.9	4583.4	2401.8	1990.2	1937.7	1907.2	1895.4	1895.4	1917.4	1925.9
32.5°	6853.1	6184.1	4114.2	2058.0	1925.9	1853.0	1754.8	1710.7	1727.7	1802.2	1819.1
35°	7169.9	6284.0	3479.1	1941.1	1912.3	1814.1	1661.6	1580.3	1582.0	1651.5	1673.5
37.5°	7515.4	6411.0	2782.9	1919.1	1942.8	1815.8	1612.5	1500.7	1455.0	1455.0	1463.4
40°	7957.5	6541.5	2252.8	1934.3	2007.2	1836.1	1587.1	1438.0	1309.3	1312.7	1319.5
42.5°	8533.4	6653.3	1968.2	1966.5	2085.1	1863.2	1585.4	1355.0	1243.3	1319.5	1388.9
45°	9173.6	6709.2	1842.9	1995.3	2147.7	1880.1	1558.3	1341.5	1251.7	1478.7	1610.8
47.5°	9910.4	6677.0	1773.4	2005.5	2163.0	1880.1	1527.8	1373.7	1311.0	1712.4	1866.6
50°	10718.4	6583.8	1705.7	1985.1	2157.9	1876.7	1556.6	1405.9	1333.0	1753.1	1859.8
52.5°	11668.6	6505.9	1634.5	1941.1	2122.3	1858.1	1590.5	1392.3	1263.6	1593.9	1668.4
55°	12752.6	6527.9	1554.9	1878.4	2066.4	1822.5	1578.6	1338.1	1190.7	1404.2	1449.9
57.5°	14138.2	6790.5	1460.1	1798.8	1990.2	1763.2	1536.3	1312.7	1168.7	1273.7	1300.8
60°	15684.6	7247.8	1341.5	1719.2	1895.4	1668.4	1504.1	1324.6	1178.9	1263.6	1277.1
62.5°	16819.5	7513.7	1239.9	1602.3	1766.6	1563.4	1463.4	1339.8	1206.0	1299.1	1295.8
65°	17127.7	7076.7	1112.8	1431.3	1592.2	1453.3	1412.6	1356.7	1217.8	1327.9	1312.7
66°	16695.8	6605.8	1056.9	1351.7	1504.1	1399.1	1387.2	1355.0	1212.8	1331.3	1305.9
67.5°	15647.4	5640.4	960.4	1234.8	1363.5	1317.8	1346.6	1339.8	1199.2	1327.9	1292.4
70°	12761.1	3848.3	821.5	1028.1	1134.8	1160.3	1268.7	1285.6	1155.2	1268.7	1190.7
72.5°	8916.2	2344.2	726.6	797.8	918.0	989.2	1161.9	1211.1	1095.9	1107.7	1033.2
75°	4309.0	1244.9	658.9	618.2	713.1	826.6	1033.2	1109.4	1002.7	926.5	899.4
77.5°	1343.2	760.5	559.0	498.0	559.0	667.4	863.8	972.2	892.6	775.8	765.6
80°	721.6	559.0	430.2	399.7	442.1	523.4	679.2	811.3	767.3	696.2	621.6
82.5°	476.0	362.5	318.4	310.0	337.1	399.7	504.8	672.4	672.4	596.2	433.6
85°	245.6	221.9	218.5	218.5	235.4	265.9	343.8	518.3	552.2	315.0	260.8
87.5°	122.0	127.0	118.6	123.6	132.1	130.4	164.3	260.8	311.7	191.4	159.2
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)