

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: P191495

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191495  
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-07-LED-E1-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 44036 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 391  
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

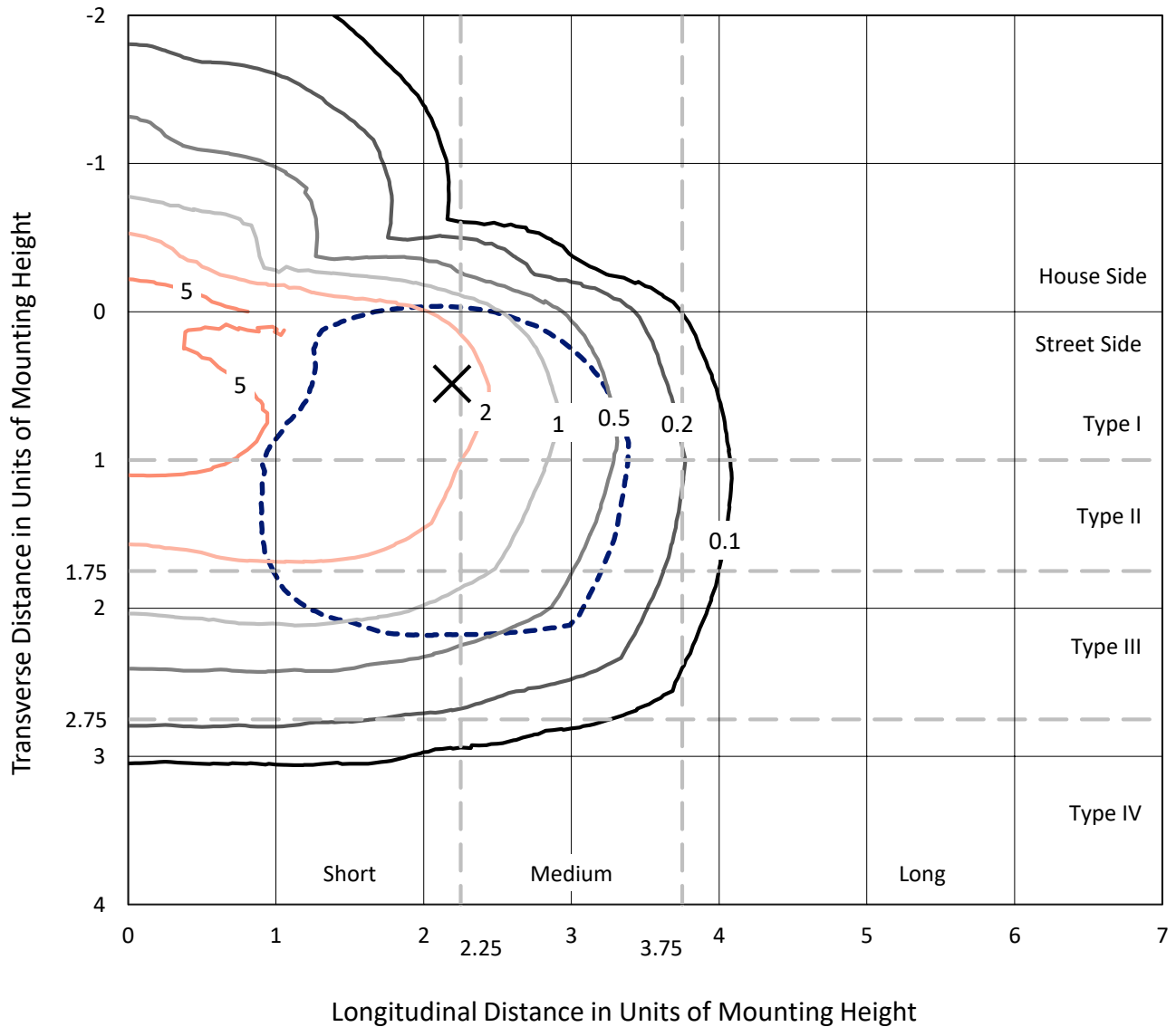


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### Iso-Footcandle Lines of Horizontal Illumination

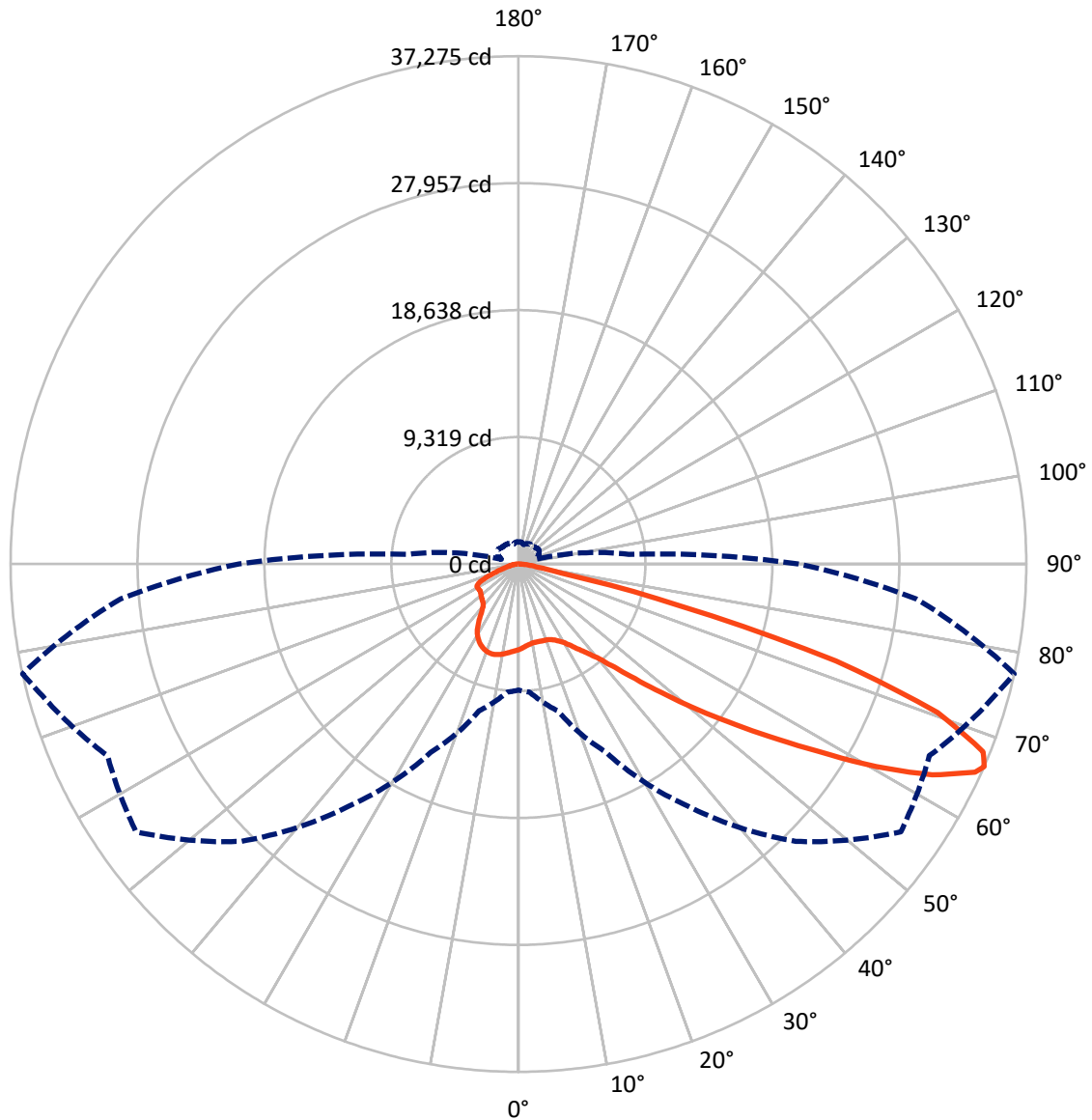
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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
<b>House Side</b>	Lumens	7523.3	0.0	7523.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	36512.7	0.0	36512.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	44036.0	0.0	44036.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.6	1.3
10°-20°	1581.7	3.6
20°-30°	2699.4	6.1
30°-40°	4321.2	9.8
40°-50°	6675.9	15.2
50°-60°	9468.7	21.5
60°-70°	12666.6	28.8
70°-80°	5500.9	12.5
80°-90°	560.9	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°	44036.0	100.0
0°-180°	44036.0	100.0



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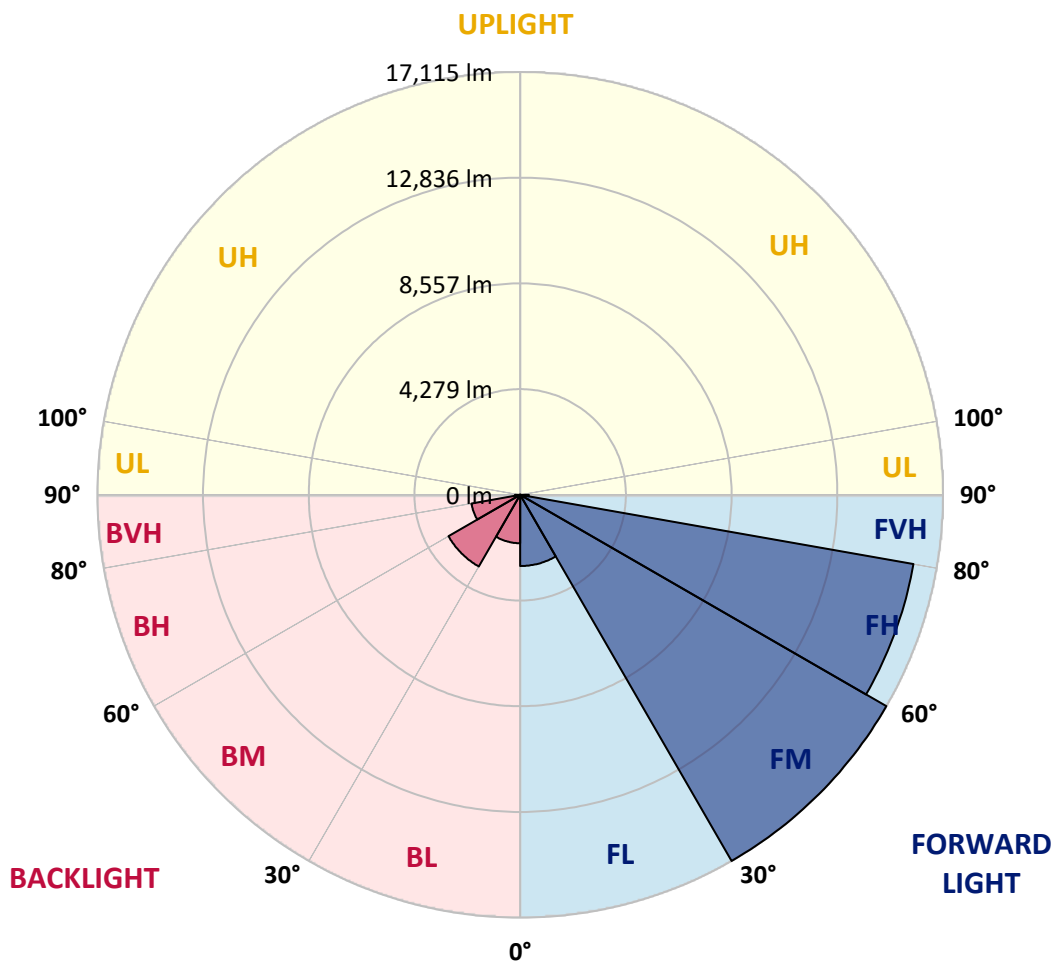
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2882.4	6.5			
FM (30°-60°)	17114.7	38.9			
FH (60°-80°)	16163.9	36.7			G5
FVH (80°-90°)	351.8	0.8			G3/500
BL (0°-30°)	1959.4	4.4	B3/2500		
BM (30°-60°)	3351.2	7.6	B3/5000		
BH (60°-80°)	2003.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	209.1	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°	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3
2.5°	5551.2	5588.7	5619.9	5649.0	5707.3	5803.0	5913.3	6002.8	6131.8	6156.7	6225.4
5°	5041.5	5041.5	5066.5	5110.2	5189.2	5332.7	5482.6	5682.4	5963.2	6029.8	6212.9
7.5°	4793.9	4796.0	4810.5	4848.0	4916.6	5047.8	5212.1	5447.2	5828.0	5938.2	6250.3
10°	4885.4	4864.6	4833.4	4814.7	4825.1	4902.1	5058.2	5320.3	5744.8	5886.3	6333.6
12.5°	5397.3	5357.8	5249.6	5106.0	4968.7	4912.5	5004.1	5260.0	5709.4	5873.8	6443.9
15°	6233.8	6217.1	6015.3	5717.7	5384.8	5106.0	5043.6	5237.1	5713.6	5888.3	6574.9
17.5°	7282.4	7259.5	6993.2	6560.4	6017.3	5474.3	5183.0	5255.8	5728.1	5913.3	6701.9
20°	8341.4	8270.8	7983.6	7467.5	6770.5	5975.7	5414.0	5303.7	5746.8	5940.4	6835.1
22.5°	9132.1	9073.9	8815.9	8314.4	7511.2	6556.2	5723.9	5386.9	5807.2	6019.5	6999.4
25°	9827.1	9831.3	9575.3	9090.5	8260.3	7172.1	6123.5	5609.6	5961.1	6181.7	7224.1
27.5°	10686.4	10636.4	10397.2	9916.5	9001.0	7794.3	6606.2	5915.4	6190.1	6412.7	7519.6
30°	11714.2	11678.8	11402.1	10857.0	9822.9	8462.2	7157.6	6271.2	6485.5	6716.5	7906.6
32.5°	12923.1	12906.5	12619.3	11918.2	10771.7	9248.6	7804.6	6741.5	6926.6	7165.9	8462.2
35°	14342.2	14344.2	14005.1	13162.4	11810.0	10164.1	8539.1	7346.9	7463.4	7713.0	9123.8
37.5°	15216.0	15322.2	15195.2	14335.9	12985.5	11187.8	9492.1	8150.1	8075.2	8326.9	9833.3
40°	15403.3	15532.3	15933.9	15496.9	14300.5	12315.5	10336.8	8922.0	8828.4	9136.3	10746.7
42.5°	15141.1	15320.0	16169.0	16476.9	15696.7	13705.5	11472.9	10068.4	9949.8	10363.9	11882.8
45°	14985.1	15118.2	16100.3	16986.7	16907.6	15276.3	12918.9	11508.3	11464.5	12007.6	13193.6
47.5°	14714.5	14835.2	15779.9	17105.3	17619.2	16716.2	14656.3	13268.5	13353.8	14065.4	14673.0
50°	14860.2	14910.1	15422.0	16803.6	17825.2	17771.1	16597.6	15307.5	15598.9	16487.3	16347.9
52.5°	14839.4	14968.4	15380.4	16308.4	17852.2	18422.3	18509.8	17581.8	18195.5	19215.1	18206.0
55°	11997.2	12234.4	14891.4	16183.6	17948.0	19061.2	20211.8	19978.7	21123.1	22311.2	20303.3
57.5°	11456.2	11606.1	13079.1	16445.7	18455.7	20280.4	22105.1	22617.0	24531.3	25910.7	22858.3
60°	11350.2	11535.3	13060.4	16766.2	19485.6	22267.5	24912.0	25810.9	28678.0	30188.6	25821.2
62.5°	11019.3	11219.0	12937.7	16724.5	20948.3	25016.1	28505.3	29206.6	32610.5	34079.5	28299.3
65°	9970.6	10157.9	11936.9	16052.5	21934.5	27949.8	32758.3	32319.2	35714.9	36819.8	29535.2
66°	9252.8	9435.9	11148.3	15261.8	21705.7	28782.1	34264.7	33282.6	36409.9	37275.4	29293.9
67.5°	7939.8	8083.5	9616.9	13491.2	20488.5	29015.1	35531.8	34006.7	36482.7	36788.6	27914.4
70°	5016.6	5058.2	6250.3	9313.1	15509.4	25163.8	33603.0	32208.9	33474.0	32645.9	23401.4
72.5°	2176.4	2161.8	3000.3	4737.7	8780.5	16884.7	27182.1	26576.6	26258.2	24368.9	16381.2
75°	1211.0	1227.6	1558.5	2199.2	3568.4	8293.6	17781.5	17015.9	14367.1	12259.3	7428.1
77.5°	971.7	994.6	1292.1	1560.5	1602.1	2892.2	8320.7	6770.5	4076.0	3270.8	2064.0
80°	767.7	809.4	1127.7	1215.2	1079.8	1192.2	2688.2	2149.3	1612.6	1479.4	1069.5
82.5°	607.5	636.7	967.5	919.6	755.2	803.1	1287.9	1254.6	1048.6	955.0	618.0
85°	436.9	491.0	794.8	692.8	495.2	540.9	855.2	819.8	601.3	491.0	272.6
87.5°	178.9	233.0	561.8	459.8	276.7	251.7	426.6	401.6	285.1	208.1	135.2
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°	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3	6275.3
2.5°	6269.1	6319.1	6383.5	6423.1	6443.9	6458.4	6481.3	6479.3	6485.5	6487.6	6495.8
5°	6310.7	6394.0	6487.6	6512.5	6512.5	6489.6	6466.8	6429.3	6414.7	6410.6	6414.7
7.5°	6418.9	6510.5	6591.6	6562.4	6500.0	6408.5	6289.9	6185.9	6129.7	6111.0	6106.8
10°	6556.2	6666.5	6699.8	6589.5	6406.4	6185.9	5950.7	5780.2	5682.4	5655.3	5647.0
12.5°	6722.7	6826.8	6780.9	6547.9	6208.8	5852.9	5528.3	5255.8	5051.9	4987.4	4983.2
15°	6905.7	6987.0	6826.8	6418.9	5913.3	5389.0	4810.5	4340.3	4086.5	4005.4	3999.0
17.5°	7076.4	7118.0	6799.7	6194.2	5478.4	4629.6	3861.7	3499.7	3412.4	3433.1	3437.3
20°	7222.0	7222.0	6708.1	5871.6	4793.9	3628.7	3143.9	3137.7	3200.1	3262.5	3275.0
22.5°	7382.2	7286.6	6547.9	5416.0	3824.3	2969.1	2898.4	2956.6	3027.4	3096.1	3106.5
25°	7580.0	7338.5	6325.3	4725.2	3006.6	2696.6	2723.6	2771.5	2806.9	2850.6	2856.8
27.5°	7800.5	7405.1	6031.9	3774.4	2609.1	2526.0	2546.7	2563.4	2559.2	2575.9	2580.1
30°	8064.7	7482.2	5630.3	2950.4	2444.9	2380.3	2342.9	2328.2	2328.2	2355.3	2365.8
32.5°	8418.5	7596.5	5054.0	2528.0	2365.8	2276.3	2155.6	2101.4	2122.3	2213.9	2234.6
35°	8807.5	7719.3	4273.7	2384.5	2349.1	2228.4	2041.2	1941.3	1943.4	2028.7	2055.7
37.5°	9232.0	7875.4	3418.6	2357.4	2386.5	2230.4	1980.8	1843.5	1787.3	1787.3	1797.7
40°	9775.0	8035.6	2767.3	2376.1	2465.6	2255.5	1949.6	1766.5	1608.4	1612.6	1620.9
42.5°	10482.5	8173.0	2417.7	2415.7	2561.4	2288.8	1947.5	1664.5	1527.3	1620.9	1706.2
45°	11268.9	8241.6	2263.8	2451.1	2638.3	2309.5	1914.2	1647.9	1537.6	1816.5	1978.7
47.5°	12174.0	8202.0	2178.5	2463.6	2657.0	2309.5	1876.8	1687.5	1610.4	2103.6	2292.9
50°	13166.6	8087.7	2095.2	2438.5	2650.8	2305.4	1912.1	1726.9	1637.5	2153.5	2284.6
52.5°	14333.8	7991.9	2007.8	2384.5	2607.1	2282.5	1953.7	1710.3	1552.2	1957.9	2049.5
55°	15665.5	8018.9	1910.1	2307.5	2538.5	2238.8	1939.2	1643.8	1462.7	1724.9	1781.1
57.5°	17367.5	8341.4	1793.5	2209.7	2444.9	2166.0	1887.1	1612.6	1435.7	1564.7	1598.0
60°	19267.1	8903.3	1647.9	2111.9	2328.2	2049.5	1847.7	1627.1	1448.2	1552.2	1568.8
62.5°	20661.2	9229.9	1523.1	1968.4	2170.2	1920.5	1797.7	1645.8	1481.4	1595.9	1591.7
65°	21039.8	8693.1	1367.0	1758.1	1955.9	1785.3	1735.3	1666.6	1496.0	1631.3	1612.6
66°	20509.2	8114.7	1298.3	1660.4	1847.7	1718.7	1704.0	1664.5	1489.7	1635.4	1604.2
67.5°	19221.3	6928.7	1179.8	1516.8	1675.0	1618.8	1654.1	1645.8	1473.2	1631.3	1587.5
70°	15675.9	4727.3	1009.1	1262.9	1394.1	1425.3	1558.5	1579.2	1419.0	1558.5	1462.7
72.5°	10952.7	2879.7	892.6	980.0	1127.7	1215.2	1427.3	1487.7	1346.2	1360.7	1269.2
75°	5293.3	1529.3	809.4	759.4	876.0	1015.4	1269.2	1362.9	1231.7	1138.1	1104.9
77.5°	1650.0	934.3	686.6	611.7	686.6	819.8	1061.1	1194.3	1096.5	953.0	940.5
80°	886.4	686.6	528.5	491.0	543.1	642.9	834.3	996.7	942.5	855.2	763.6
82.5°	584.7	445.3	391.2	380.7	414.1	491.0	620.0	826.0	826.0	732.4	532.7
85°	301.7	272.6	268.4	268.4	289.2	326.6	422.4	636.7	678.3	387.0	320.4
87.5°	149.8	156.1	145.7	151.9	162.3	160.2	201.8	320.4	382.9	235.1	195.6
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)