

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: P194118

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
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-T4W-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47741 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G5

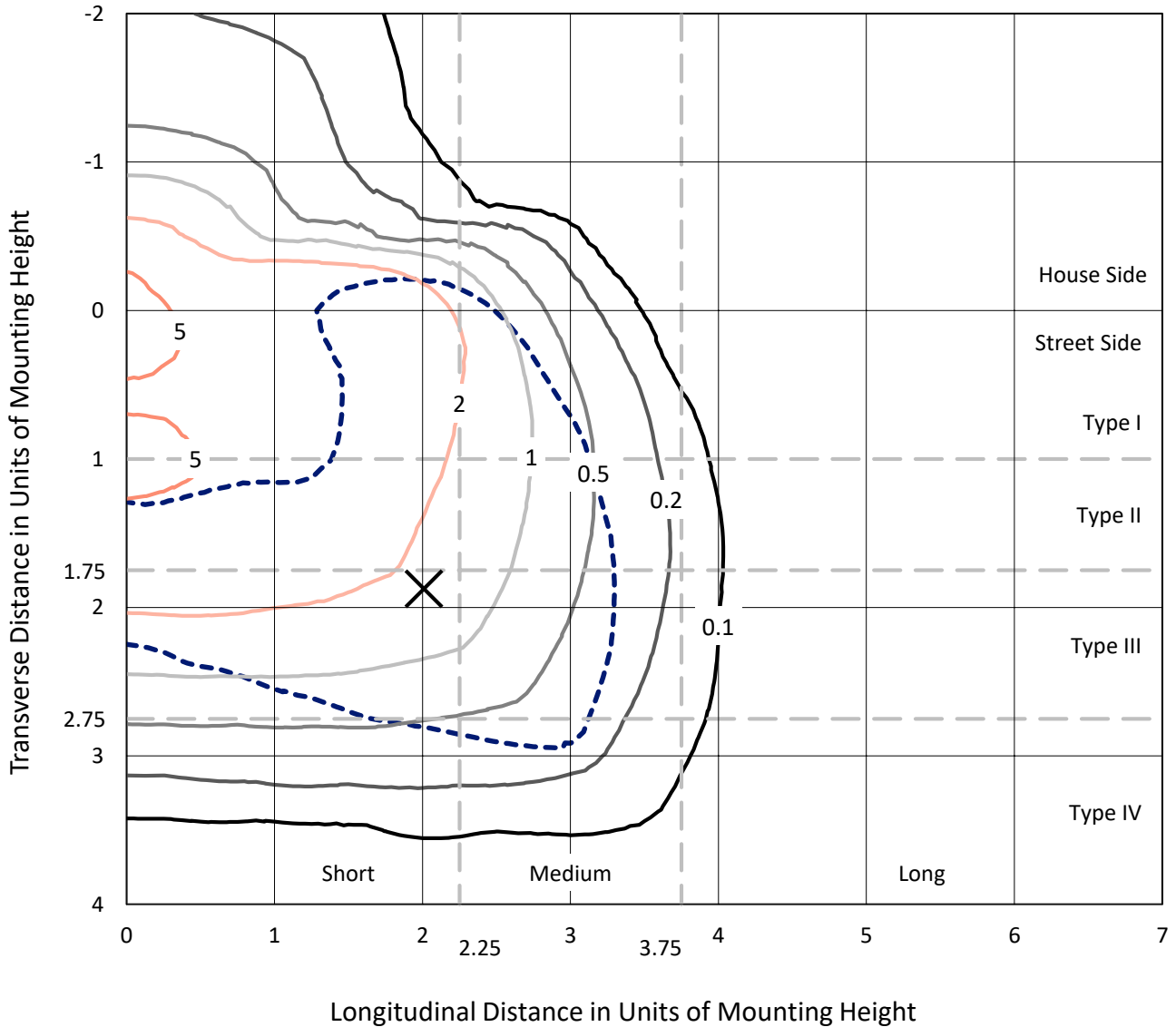
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

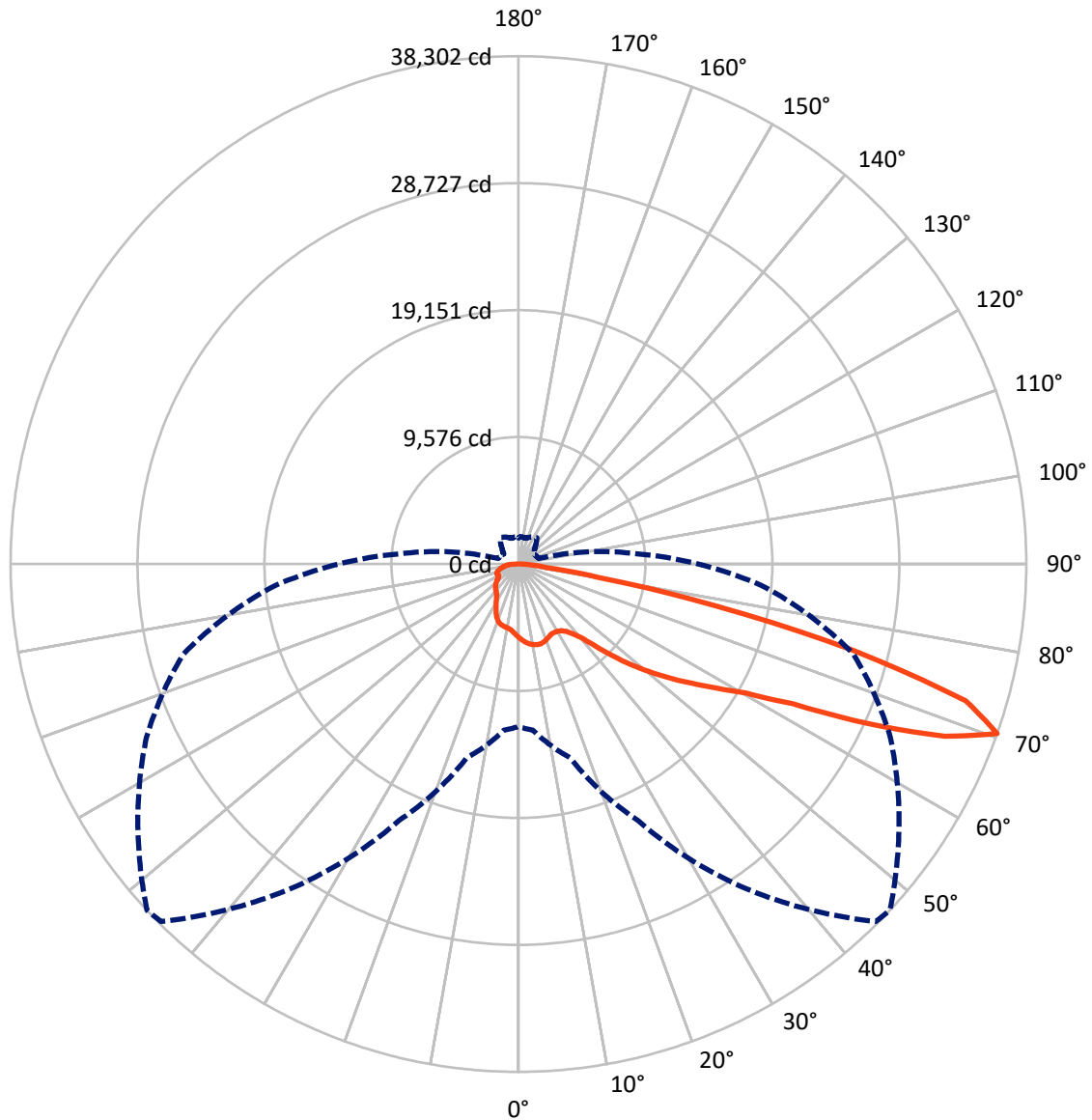
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9959.7	0.0	9959.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	37781.3	0.0	37781.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	47741.0	0.0	47741.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.8	1.1
10°-20°	1557.1	3.3
20°-30°	2299.5	4.8
30°-40°	3342.3	7.0
40°-50°	6014.9	12.6
50°-60°	10420.2	21.8
60°-70°	14872.6	31.2
70°-80°	7634.8	16.0
80°-90°	1068.9	2.2
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°	47741.0	100.0
0°-180°	47741.0	100.0

**Coefficient of Utilization**



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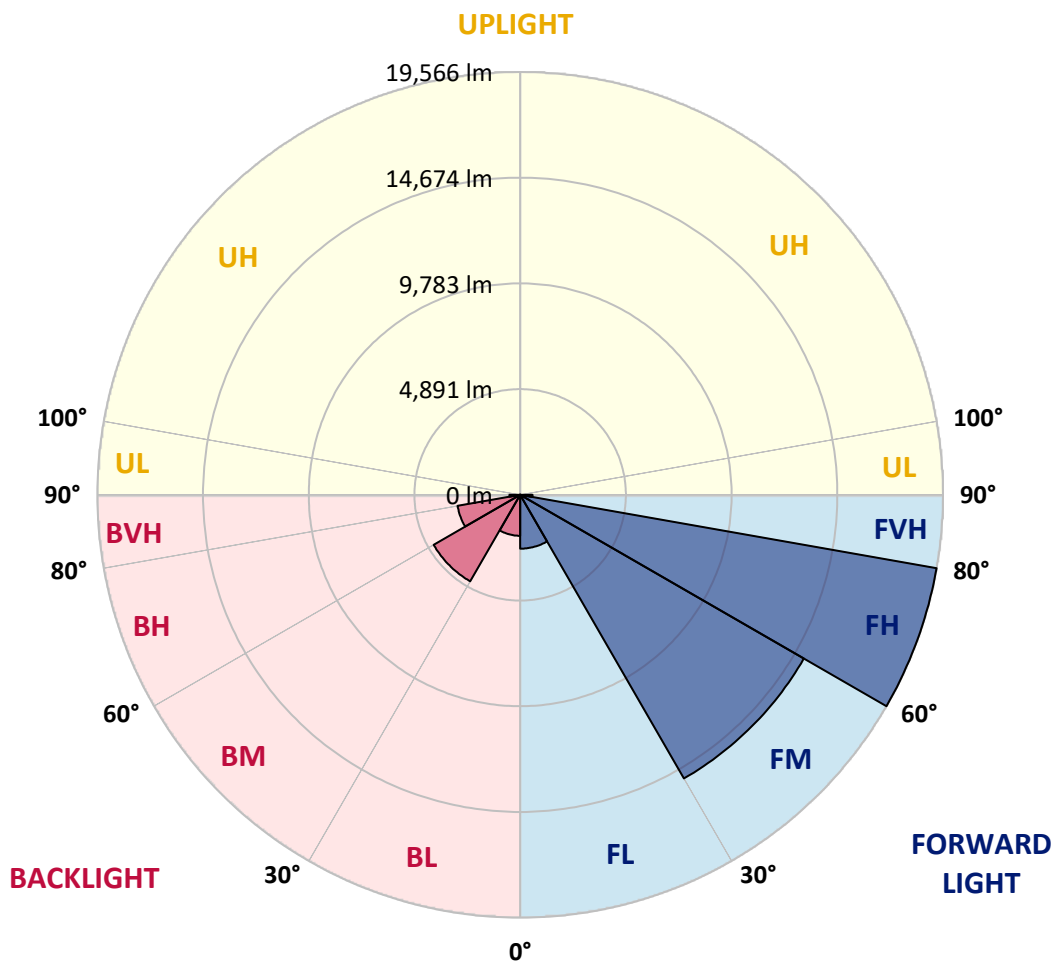
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2491.0	5.2			
FM	(30°-60°)	15154.3	31.7			
FH	(60°-80°)	19565.6	41.0			G5
FVH	(80°-90°)	570.4	1.2			G4/750
BL	(0°-30°)	1896.4	4.0	B3/2500		
BM	(30°-60°)	4623.0	9.7	B3/5000		
BH	(60°-80°)	2941.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	498.5	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4
2.5°	5864.6	5853.0	5848.4	5839.1	5827.4	5769.4	5757.8	5716.0	5657.9	5597.5	5534.8
5°	6250.2	6247.8	6222.3	6175.8	6101.5	5973.8	5943.6	5841.4	5704.3	5572.0	5439.6
7.5°	6589.3	6568.4	6519.6	6426.7	6296.6	6122.4	6080.6	5938.9	5750.8	5569.6	5390.8
10°	6837.8	6826.2	6719.3	6591.6	6422.0	6229.3	6180.5	6022.5	5815.8	5585.9	5362.9
12.5°	6979.5	6956.2	6833.1	6679.8	6477.8	6289.6	6240.9	6080.6	5848.4	5585.9	5323.4
15°	6970.2	6953.9	6830.8	6663.6	6459.2	6294.3	6250.2	6089.9	5841.4	5562.7	5272.3
17.5°	6784.4	6791.3	6686.8	6521.9	6354.7	6229.3	6189.8	6041.1	5794.9	5516.2	5212.0
20°	6459.2	6491.7	6422.0	6275.7	6182.8	6096.9	6071.3	5945.9	5722.9	5448.9	5146.9
22.5°	6134.0	6164.2	6136.4	6013.3	5999.3	5948.2	5934.3	5843.7	5660.2	5407.1	5107.4
25°	5894.8	5922.7	5918.0	5811.2	5853.0	5850.7	5839.1	5794.9	5646.3	5407.1	5114.4
27.5°	5829.8	5839.1	5829.8	5732.2	5790.3	5836.7	5827.4	5820.5	5688.1	5474.4	5202.7
30°	6052.7	6038.8	5966.8	5769.4	5822.8	5887.8	5878.5	5883.2	5813.5	5650.9	5400.1
32.5°	6942.3	6879.6	6652.0	6096.9	5955.2	5990.0	5994.7	6071.3	6082.9	5922.7	5706.7
35°	8273.2	8203.5	7908.5	6974.8	6366.3	6245.5	6245.5	6361.6	6431.3	6312.9	6182.8
37.5°	9683.0	9606.3	9448.4	8191.9	7230.3	6689.1	6677.5	6758.8	6858.7	6886.6	6919.1
40°	11285.6	11204.3	11248.4	9557.6	8435.7	7457.9	7293.0	7235.0	7504.4	7683.2	7943.4
42.5°	13039.2	13002.0	13018.3	11078.9	9808.4	8607.6	8373.0	8073.4	8398.6	8716.8	9262.6
45°	14662.7	14695.2	14678.9	12707.0	11336.7	10010.5	9762.0	9181.3	9499.5	10045.3	10934.9
47.5°	16084.1	15949.4	16158.4	14486.2	13048.5	11580.6	11274.0	10495.9	10818.8	11492.3	12997.4
50°	17809.8	17791.2	17484.7	16859.9	15117.9	13157.6	12755.8	11854.6	12356.3	13292.3	15596.4
52.5°	19623.8	19287.0	19006.0	18706.4	17312.8	14774.2	14281.8	13208.7	14163.3	15340.9	18764.4
55°	19995.4	19844.4	20192.8	20696.8	19428.7	16453.4	15879.7	14906.6	16197.9	17682.1	22417.9
57.5°	20789.7	20787.4	21507.4	22406.3	21607.3	18234.9	17656.5	16957.4	18485.7	20364.7	26296.7
60°	21326.3	21477.2	22815.1	24559.4	23746.4	20292.7	19760.8	19324.2	21087.0	23363.2	29910.7
62.5°	21607.3	21811.7	23637.3	25432.7	26770.5	23718.6	23186.7	22557.3	24529.2	26652.0	32024.2
65°	20439.0	20840.8	23509.5	26187.5	29418.3	29271.9	29032.7	27927.2	28833.0	29251.0	31260.1
67.5°	17205.9	17617.1	20724.7	25483.8	31308.9	34627.9	34679.0	32790.7	31480.8	29474.0	26282.7
70°	12258.8	12581.6	15152.8	21365.8	29868.9	38128.1	38302.3	35032.0	30953.5	26138.7	18362.6
72.5°	5820.5	6017.9	8452.0	13905.5	23702.3	34934.5	35271.3	32170.6	26319.9	19352.0	10017.4
75°	2139.1	2199.5	2856.8	5915.7	13747.6	25762.5	26159.6	23061.3	17447.5	9634.2	3816.1
77.5°	1282.1	1321.6	1602.6	2496.8	5407.1	14725.4	15313.0	12542.1	7625.2	3586.1	1876.7
80°	896.5	924.4	1149.7	1553.8	2554.9	5611.4	6134.0	5119.0	3038.0	2269.2	1365.7
82.5°	606.2	620.1	808.3	1049.8	1697.8	2004.4	2162.4	2276.2	2048.5	1688.5	866.3
85°	397.2	411.1	548.1	692.1	1080.0	1035.9	1059.1	1340.2	1495.8	1147.4	480.8
87.5°	227.6	236.9	329.8	369.3	529.6	439.0	443.6	706.1	956.9	773.4	292.6
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°	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4	5539.4
2.5°	5518.5	5488.3	5421.0	5379.2	5339.7	5330.4	5314.1	5311.8	5309.5	5309.5	5302.5
5°	5395.4	5344.3	5239.8	5181.8	5133.0	5128.3	5126.0	5137.6	5142.3	5146.9	5140.0
7.5°	5316.5	5246.8	5116.7	5033.1	4975.0	4961.1	4984.3	5037.8	5072.6	5086.5	5079.6
10°	5267.7	5181.8	5030.8	4940.2	4891.4	4884.5	4914.7	4977.4	5049.4	5077.2	5074.9
12.5°	5212.0	5114.4	4954.1	4858.9	4831.0	4845.0	4884.5	4942.5	5016.9	5061.0	5063.3
15°	5156.2	5042.4	4877.5	4793.9	4782.3	4800.8	4838.0	4882.1	4940.2	4984.3	4989.0
17.5°	5088.9	4970.4	4805.5	4719.6	4710.3	4719.6	4721.9	4745.1	4782.3	4824.1	4835.7
20°	5016.9	4896.1	4724.2	4638.3	4596.5	4559.3	4517.5	4522.1	4533.7	4575.6	4584.8
22.5°	4965.8	4845.0	4661.5	4543.0	4431.6	4320.1	4236.5	4224.8	4229.5	4264.3	4275.9
25°	4970.4	4842.7	4645.2	4440.8	4197.0	4018.1	3906.6	3888.1	3885.7	3911.3	3927.5
27.5°	5061.0	4933.2	4705.6	4336.3	3941.5	3676.7	3558.2	3544.3	3525.7	3532.7	3551.3
30°	5263.1	5144.6	4851.9	4229.5	3665.1	3342.2	3219.1	3205.2	3179.7	3168.0	3182.0
32.5°	5592.9	5495.3	5065.6	4127.3	3388.7	3056.6	2931.1	2900.9	2884.7	2870.8	2882.4
35°	6141.0	6099.2	5351.3	4015.8	3144.8	2835.9	2722.1	2675.7	2652.4	2678.0	2696.6
37.5°	7000.4	7023.6	5725.3	3841.6	2956.7	2689.6	2594.4	2540.9	2506.1	2527.0	2547.9
40°	8217.4	8233.7	6138.7	3595.4	2794.1	2603.7	2501.5	2452.7	2403.9	2366.7	2364.4
42.5°	9815.4	9650.5	6545.1	3328.3	2606.0	2550.2	2436.4	2376.0	2301.7	2199.5	2178.6
45°	11710.6	11132.3	6854.0	3021.7	2394.6	2485.2	2364.4	2280.8	2164.7	2053.2	2041.6
47.5°	13893.9	12723.3	7005.0	2703.5	2197.2	2390.0	2276.2	2143.8	1997.5	1941.7	1934.7
50°	16560.3	14611.6	7077.0	2394.6	2025.3	2264.6	2148.4	1992.8	1869.7	1858.1	1851.1
52.5°	19595.9	16883.1	7100.2	2141.5	1883.6	2102.0	2043.9	1892.9	1795.4	1804.7	1804.7
55°	22773.3	19228.9	6784.4	1958.0	1753.6	1934.7	1974.2	1853.4	1772.2	1809.3	1823.3
57.5°	25690.5	21307.7	5790.3	1816.3	1630.5	1807.0	1948.7	1890.6	1834.9	1985.8	1995.1
60°	27929.5	22536.4	4324.7	1688.5	1539.9	1762.9	2016.0	2032.3	2046.2	2406.2	2455.0
62.5°	28398.6	22127.6	2973.0	1588.7	1498.1	1800.0	2139.1	2141.5	2125.2	2376.0	2406.2
65°	26245.6	19542.5	2162.4	1532.9	1463.2	1867.4	2243.6	2194.9	2088.0	2278.5	2222.7
67.5°	20843.2	14723.1	1800.0	1491.1	1412.2	1862.7	2355.1	2243.6	2067.1	2232.0	2141.5
70°	13529.2	8902.6	1602.6	1456.3	1351.8	1774.5	2420.2	2239.0	2006.7	2076.4	1969.6
72.5°	6600.9	3981.0	1470.2	1405.2	1289.1	1651.4	2417.8	2197.2	1944.0	1939.4	1881.3
75°	2582.8	1823.3	1349.4	1328.5	1182.2	1512.0	2352.8	2136.8	1869.7	1795.4	1774.5
77.5°	1512.0	1300.7	1196.1	1214.7	1054.5	1372.7	2257.6	2032.3	1767.5	1679.3	1656.0
80°	1100.9	973.2	1019.6	1049.8	901.2	1233.3	2129.8	1904.5	1653.7	1697.8	1665.3
82.5°	706.1	627.1	826.9	857.0	750.2	1091.6	1990.5	1769.8	1493.4	1356.4	1323.9
85°	360.0	397.2	615.5	652.7	578.3	896.5	1820.9	1591.0	1312.3	1128.8	1147.4
87.5°	202.1	271.7	392.5	439.0	408.8	689.8	1477.2	1312.3	1070.7	871.0	766.5
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)