

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: P194046

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194046  
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-08-LED-E1-T3R-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43661 lumens  
Efficiency: N/A  
Efficacy: 85.4 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): 511  
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

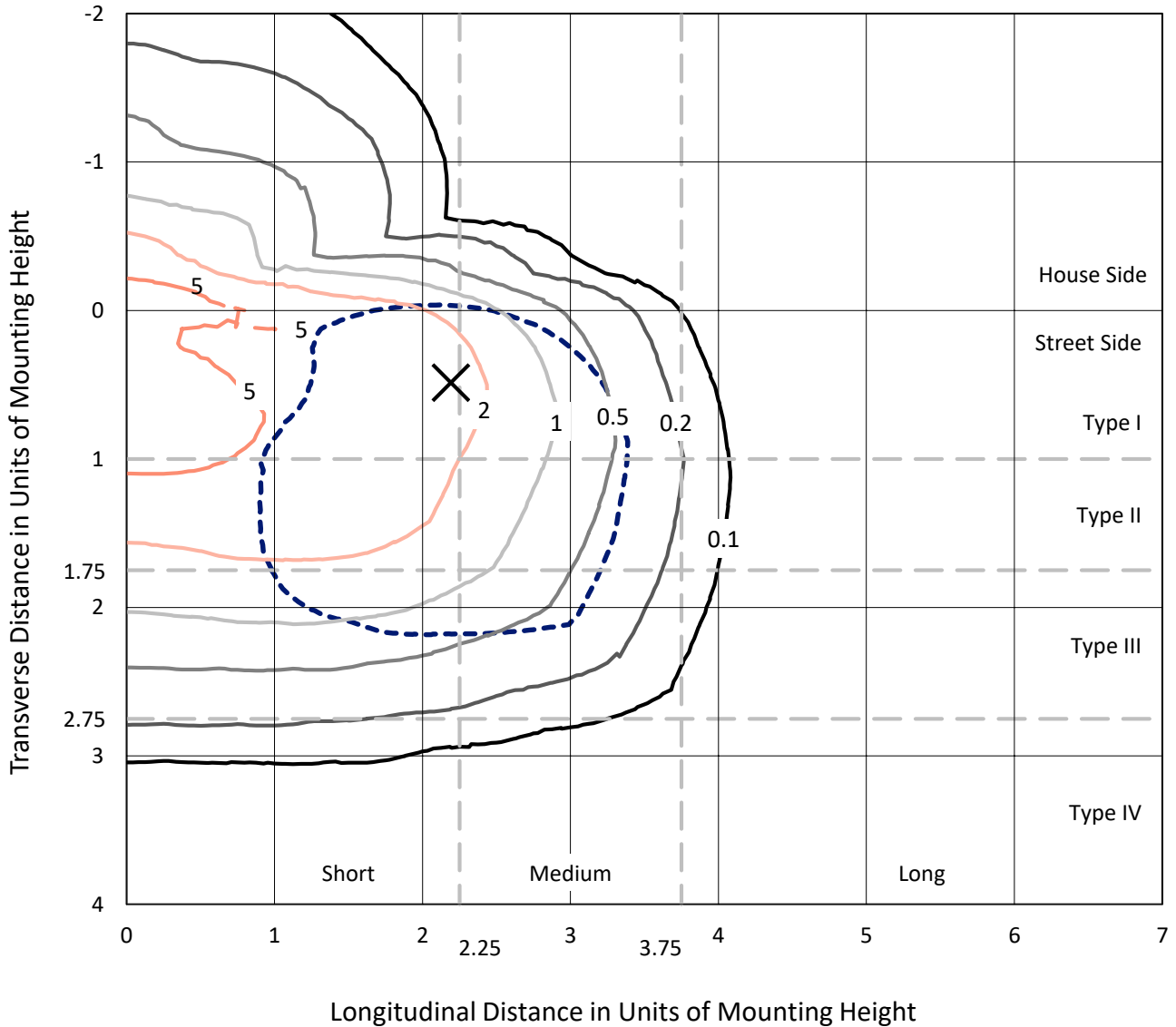


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

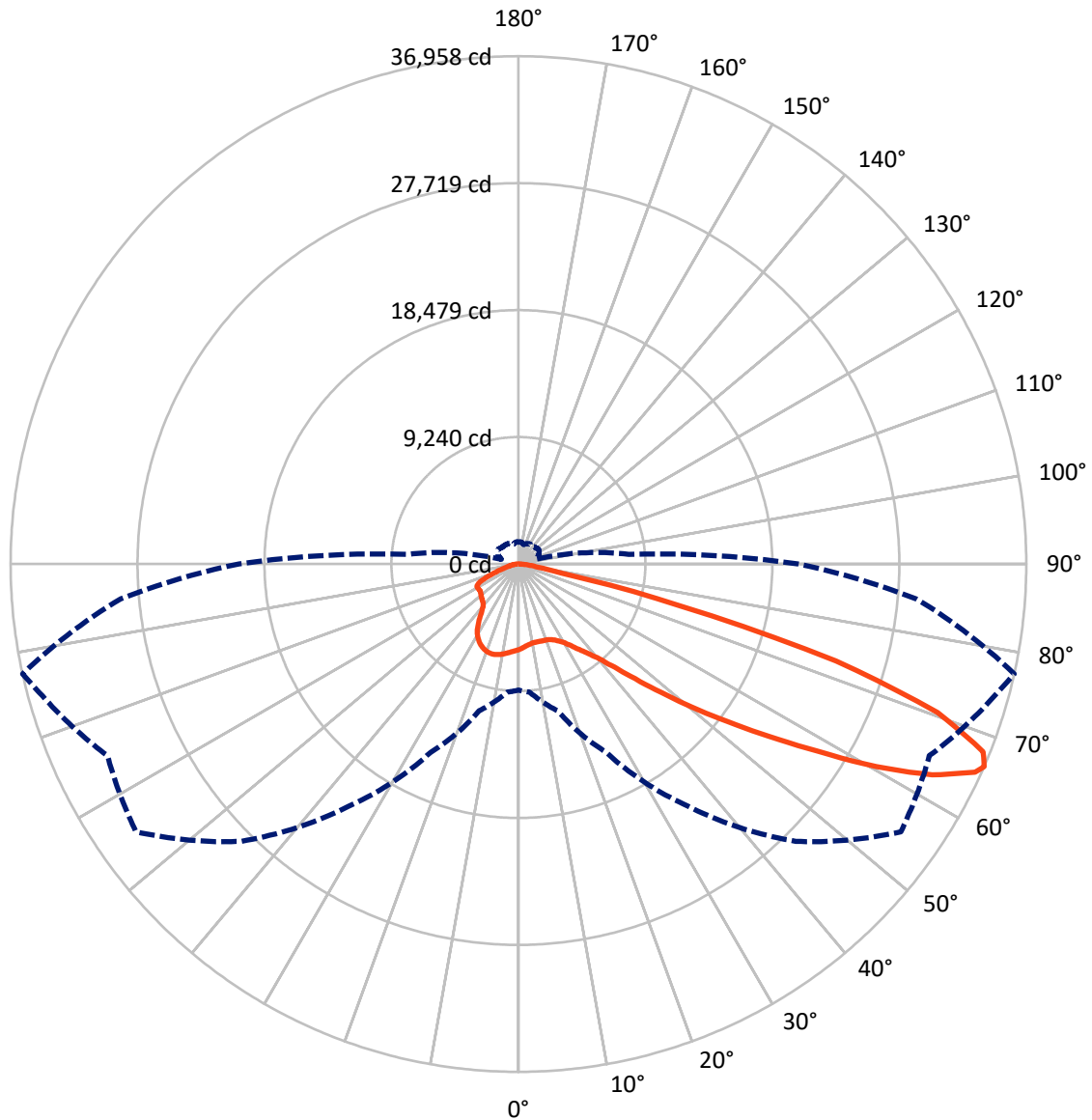


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - Full Cutoff

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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	7459.2	0.0	7459.2
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	36201.8	0.0	36201.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	43661.0	0.0	43661.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.9	1.3
10°-20°	1568.2	3.6
20°-30°	2676.4	6.1
30°-40°	4284.4	9.8
40°-50°	6619.1	15.2
50°-60°	9388.1	21.5
60°-70°	12558.7	28.8
70°-80°	5454.0	12.5
80°-90°	556.1	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°	43661.0	100.0
0°-180°	43661.0	100.0



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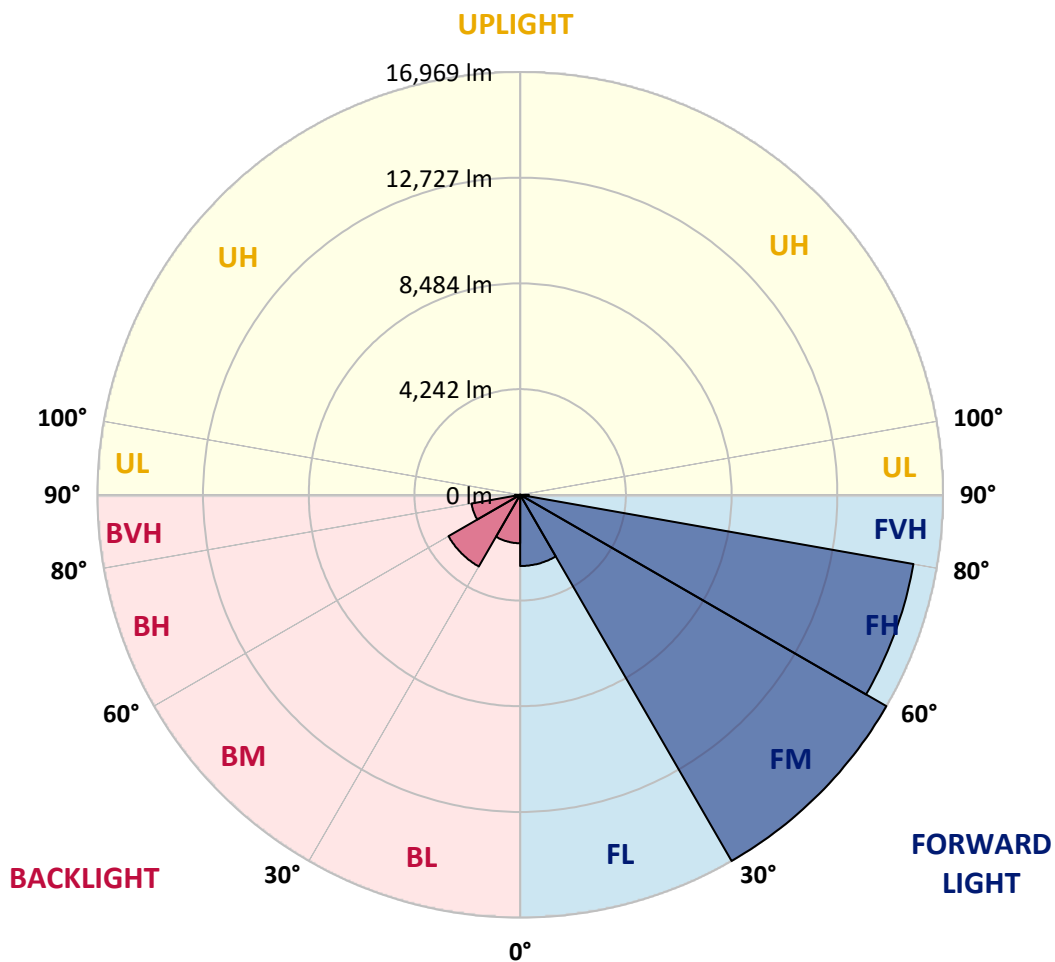
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2857.8	6.5			
FM (30°-60°)	16968.9	38.9			
FH (60°-80°)	16026.2	36.7			G5
FVH (80°-90°)	348.8	0.8			G3/500
BL (0°-30°)	1942.7	4.4	B3/2500		
BM (30°-60°)	3322.7	7.6	B3/5000		
BH (60°-80°)	1986.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	207.3	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°	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9
2.5°	5504.0	5541.1	5572.1	5600.9	5658.7	5753.6	5862.9	5951.7	6079.6	6104.3	6172.4
5°	4998.6	4998.6	5023.3	5066.6	5145.0	5287.4	5435.9	5634.0	5912.5	5978.5	6160.0
7.5°	4753.1	4755.1	4769.6	4806.7	4874.8	5004.8	5167.7	5400.8	5778.4	5887.7	6197.1
10°	4843.8	4823.2	4792.3	4773.7	4784.0	4860.3	5015.1	5275.0	5695.8	5836.1	6279.7
12.5°	5351.3	5312.1	5204.9	5062.5	4926.4	4870.7	4961.4	5215.2	5660.8	5823.7	6389.0
15°	6180.6	6164.1	5964.0	5669.0	5339.0	5062.5	5000.6	5192.5	5664.9	5838.2	6519.0
17.5°	7220.4	7197.7	6933.6	6504.5	5966.1	5427.7	5138.8	5211.0	5679.3	5862.9	6644.8
20°	8270.4	8200.3	7915.6	7404.0	6712.9	5924.8	5367.8	5258.5	5697.9	5889.8	6776.8
22.5°	9054.3	8996.6	8740.8	8243.6	7447.3	6500.4	5675.2	5341.0	5757.7	5968.2	6939.8
25°	9743.4	9747.5	9493.8	9013.1	8190.0	7111.0	6071.3	5561.8	5910.4	6129.1	7162.6
27.5°	10595.4	10545.9	10308.6	9832.1	8924.4	7727.9	6549.9	5865.0	6137.3	6358.1	7455.6
30°	11614.5	11579.4	11305.0	10764.5	9739.3	8390.1	7096.6	6217.8	6430.3	6659.2	7839.3
32.5°	12813.1	12796.6	12511.9	11816.7	10680.0	9169.9	7738.2	6684.0	6867.6	7104.8	8390.1
35°	14220.0	14222.1	13885.8	13050.3	11709.4	10077.6	8466.4	7284.3	7399.9	7647.4	9046.1
37.5°	15086.5	15191.7	15065.8	14213.8	12875.0	11092.6	9411.2	8080.6	8006.4	8256.0	9749.6
40°	15272.1	15400.0	15798.2	15365.0	14178.8	12210.7	10248.8	8846.0	8753.2	9058.5	10655.2
42.5°	15012.2	15189.6	16031.3	16336.6	15563.0	13588.7	11375.2	9982.7	9865.1	10275.6	11781.6
45°	14857.5	14989.5	15963.2	16842.0	16763.6	15146.3	12808.9	11410.3	11366.9	11905.4	13081.3
47.5°	14589.3	14708.9	15645.5	16959.6	17469.2	16573.9	14531.5	13155.5	13240.1	13945.6	14548.0
50°	14733.7	14783.2	15290.7	16660.5	17673.4	17619.8	16456.3	15177.2	15466.0	16346.9	16208.7
52.5°	14713.1	14841.0	15249.4	16169.5	17700.2	18265.5	18352.1	17432.0	18040.6	19051.5	18050.9
55°	11895.1	12130.2	14764.6	16045.7	17795.1	18898.8	20039.6	19808.6	20943.2	22121.2	20130.4
57.5°	11358.7	11507.2	12967.8	16305.7	18298.5	20107.7	21916.9	22424.4	24322.3	25690.1	22663.7
60°	11253.5	11437.1	12949.2	16623.4	19319.7	22077.8	24699.9	25591.1	28433.8	29931.5	25601.4
62.5°	10925.5	11123.5	12827.5	16582.1	20769.9	24803.0	28262.6	28957.8	32332.8	33789.3	28058.4
65°	9885.7	10071.4	11835.2	15915.8	21747.8	27711.8	32479.3	32044.0	35410.8	36506.2	29283.8
66°	9174.0	9355.5	11053.4	15131.8	21520.8	28537.0	33972.9	32999.2	36099.8	36958.0	29044.5
67.5°	7872.3	8014.6	9535.0	13376.3	20314.0	28768.0	35229.2	33717.1	36172.0	36475.3	27676.7
70°	4973.8	5015.1	6197.1	9233.8	15377.3	24949.5	33316.9	31934.7	33189.0	32367.9	23202.2
72.5°	2157.9	2143.4	2974.8	4697.4	8705.7	16741.0	26950.6	26350.2	26034.6	24161.4	16241.7
75°	1200.6	1217.1	1545.2	2180.6	3538.0	8223.0	17630.1	16870.9	14244.8	12155.0	7364.8
77.5°	963.4	986.1	1281.1	1547.2	1588.5	2867.5	8249.8	6712.9	4041.3	3243.0	2046.5
80°	761.2	802.5	1118.1	1204.8	1070.7	1182.1	2665.3	2131.0	1598.8	1466.8	1060.4
82.5°	602.4	631.3	959.3	911.8	748.9	796.3	1277.0	1244.0	1039.7	946.9	612.7
85°	433.2	486.9	788.1	687.0	491.0	536.4	847.9	812.8	596.2	486.9	270.2
87.5°	177.4	231.1	557.0	455.9	274.4	249.6	422.9	398.2	282.6	206.3	134.1
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°	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9
2.5°	6215.7	6265.2	6329.2	6368.4	6389.0	6403.4	6426.1	6424.1	6430.3	6432.3	6440.6
5°	6257.0	6339.5	6432.3	6457.1	6457.1	6434.4	6411.7	6374.6	6360.1	6356.0	6360.1
7.5°	6364.2	6455.0	6535.5	6506.6	6444.7	6353.9	6236.3	6133.2	6077.5	6058.9	6054.8
10°	6500.4	6609.7	6642.7	6533.4	6351.9	6133.2	5900.1	5730.9	5634.0	5607.1	5598.9
12.5°	6665.4	6768.6	6723.2	6492.1	6155.9	5803.1	5481.3	5211.0	5008.9	4944.9	4940.8
15°	6847.0	6927.4	6768.6	6364.2	5862.9	5343.1	4769.6	4303.3	4051.7	3971.2	3965.0
17.5°	7016.1	7057.4	6741.8	6141.4	5431.8	4590.1	3828.9	3469.9	3383.3	3403.9	3408.0
20°	7160.5	7160.5	6651.0	5821.7	4753.1	3597.8	3117.1	3111.0	3172.8	3234.7	3247.1
22.5°	7319.4	7224.5	6492.1	5369.9	3791.7	2943.8	2873.7	2931.5	3001.6	3069.7	3080.0
25°	7515.4	7276.1	6271.4	4685.0	2981.0	2673.6	2700.4	2747.9	2782.9	2826.3	2832.4
27.5°	7734.1	7342.1	5980.5	3742.2	2587.0	2504.4	2525.1	2541.6	2537.4	2553.9	2558.1
30°	7996.0	7418.4	5582.4	2925.3	2424.0	2360.0	2322.9	2308.5	2308.5	2335.3	2345.6
32.5°	8346.8	7531.9	5010.9	2506.5	2345.6	2256.9	2137.2	2083.6	2104.2	2195.0	2215.6
35°	8732.5	7653.6	4237.3	2364.2	2329.1	2209.4	2023.8	1924.7	1926.8	2011.4	2038.2
37.5°	9153.4	7808.3	3389.5	2337.3	2366.2	2211.5	1963.9	1827.8	1772.1	1772.1	1782.4
40°	9691.8	7967.2	2743.7	2355.9	2444.6	2236.3	1933.0	1751.5	1594.7	1598.8	1607.0
42.5°	10393.2	8103.3	2397.2	2395.1	2539.5	2269.3	1930.9	1650.4	1514.2	1607.0	1691.6
45°	11173.0	8171.4	2244.5	2430.2	2615.8	2289.9	1897.9	1633.9	1524.5	1801.0	1961.9
47.5°	12070.4	8132.2	2159.9	2442.5	2634.4	2289.9	1860.8	1673.1	1596.7	2085.7	2273.4
50°	13054.4	8018.7	2077.4	2417.8	2628.2	2285.8	1895.9	1712.3	1623.6	2135.2	2265.1
52.5°	14211.8	7923.8	1990.8	2364.2	2584.9	2263.1	1937.1	1695.8	1539.0	1941.2	2032.0
55°	15532.1	7950.7	1893.8	2287.8	2516.8	2219.7	1922.7	1629.7	1450.3	1710.2	1765.9
57.5°	17219.6	8270.4	1778.3	2190.9	2424.0	2147.5	1871.1	1598.8	1423.4	1551.3	1584.4
60°	19103.0	8827.4	1633.9	2093.9	2308.5	2032.0	1831.9	1613.2	1435.8	1539.0	1555.5
62.5°	20485.2	9151.3	1510.1	1951.6	2151.7	1904.1	1782.4	1631.8	1468.8	1582.3	1578.2
65°	20860.7	8619.1	1355.4	1743.2	1939.2	1770.0	1720.5	1652.4	1483.3	1617.4	1598.8
66°	20334.6	8045.6	1287.3	1646.2	1831.9	1704.0	1689.6	1650.4	1477.1	1621.5	1590.5
67.5°	19057.7	6869.7	1169.7	1503.9	1660.7	1605.0	1640.1	1631.8	1460.6	1617.4	1574.0
70°	15542.4	4687.1	1000.5	1252.2	1382.2	1413.1	1545.2	1565.8	1406.9	1545.2	1450.3
72.5°	10859.4	2855.1	885.0	971.7	1118.1	1204.8	1415.2	1475.0	1334.7	1349.2	1258.4
75°	5248.2	1516.3	802.5	753.0	868.5	1006.7	1258.4	1351.2	1221.3	1128.4	1095.4
77.5°	1635.9	926.3	680.8	606.5	680.8	812.8	1052.1	1184.1	1087.2	944.8	932.5
80°	878.8	680.8	524.0	486.9	538.4	637.5	827.2	988.2	934.5	847.9	757.1
82.5°	579.7	441.5	387.8	377.5	410.5	486.9	614.8	819.0	819.0	726.2	528.1
85°	299.1	270.2	266.1	266.1	286.8	323.9	418.8	631.3	672.5	383.7	317.7
87.5°	148.5	154.7	144.4	150.6	160.9	158.8	200.1	317.7	379.6	233.1	193.9
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)