

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: P191505

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191505
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 48306.8 lumens
Efficiency: N/A
Efficacy: 107.8 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

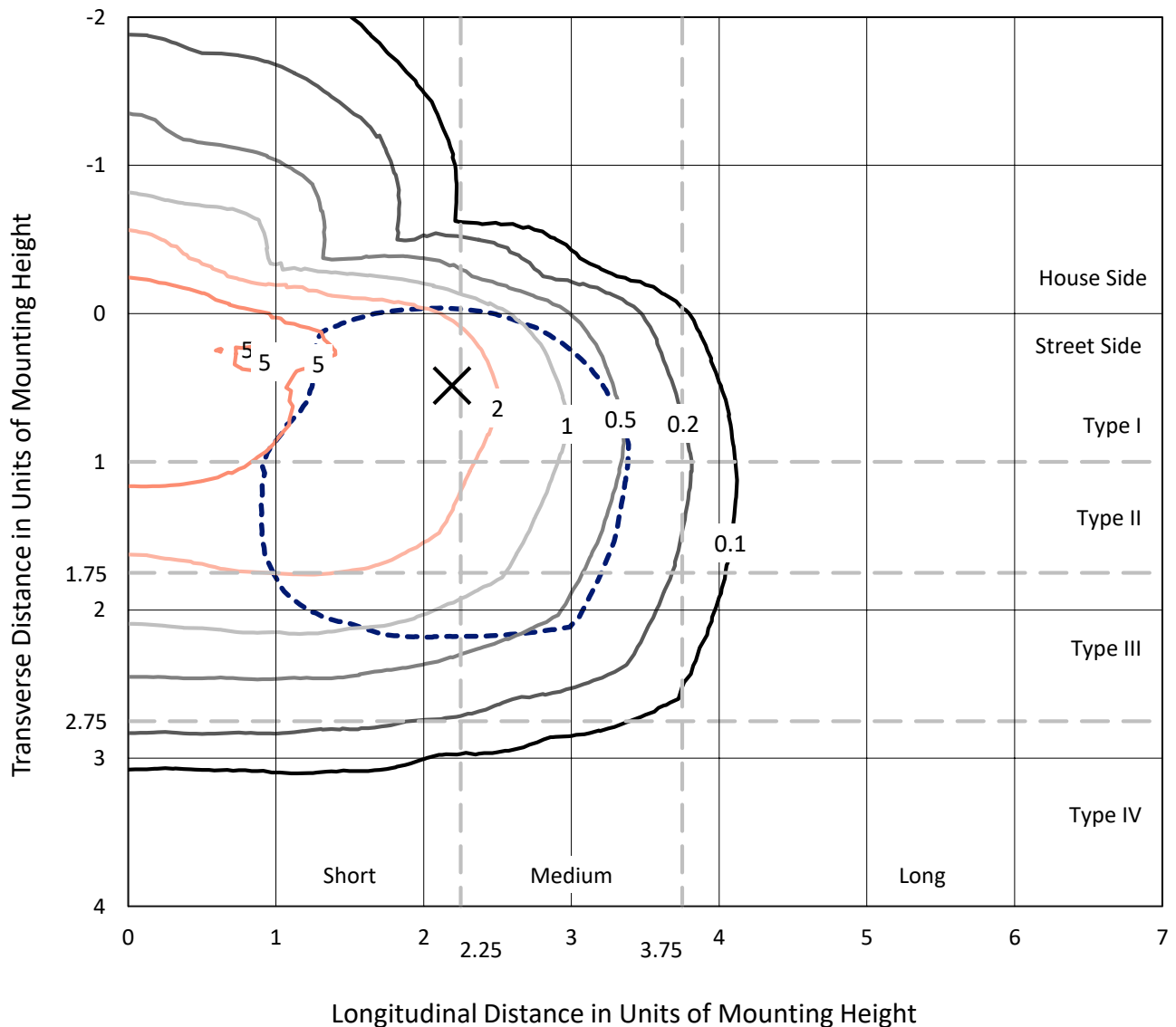
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

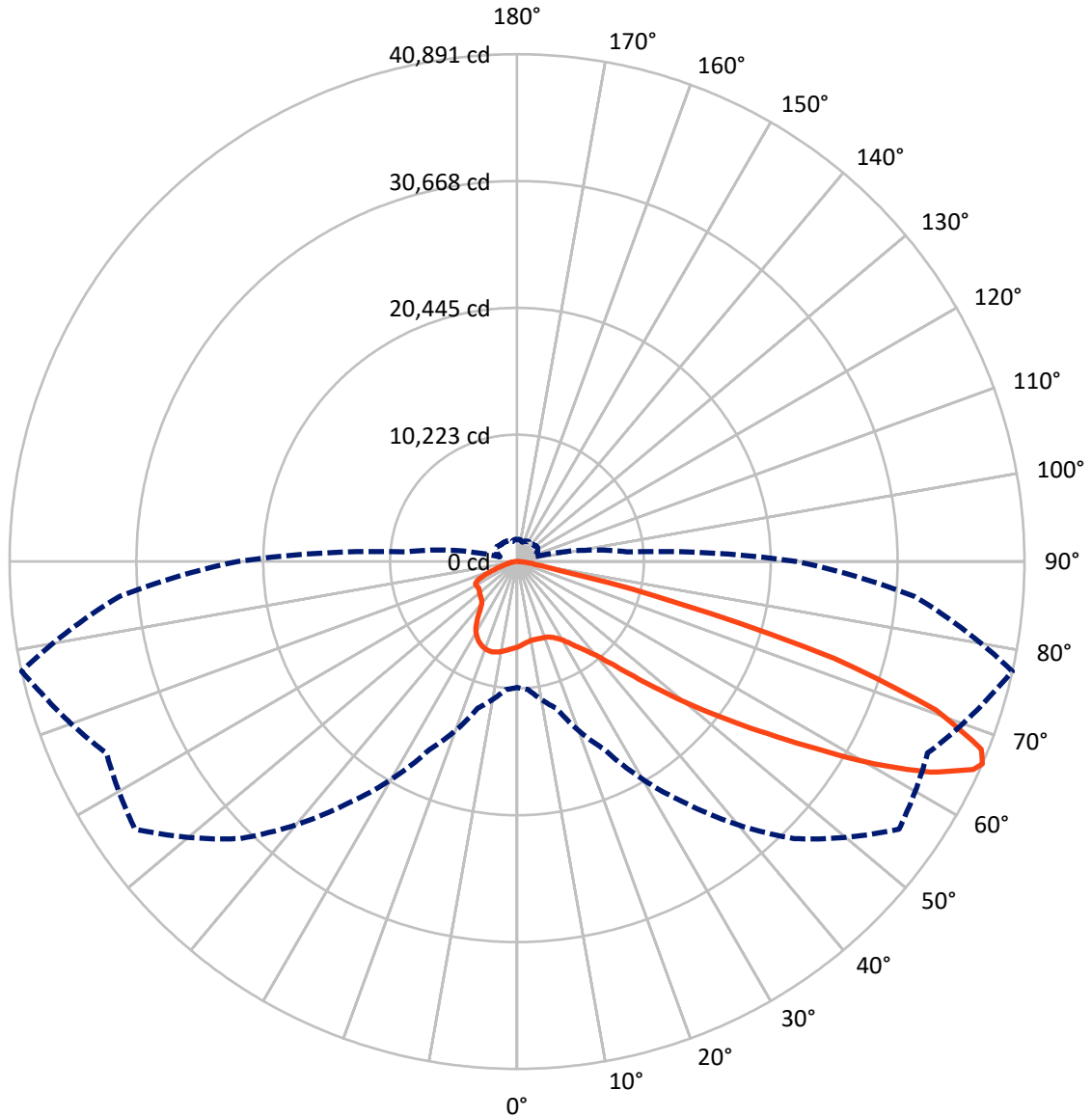
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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	8252.9	0.0	8252.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	40053.9	0.0	40053.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	48306.8	0.0	48306.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.0	1.3
10°-20°	1735.1	3.6
20°-30°	2961.2	6.1
30°-40°	4740.3	9.8
40°-50°	7323.4	15.2
50°-60°	10387.1	21.5
60°-70°	13895.1	28.8
70°-80°	6034.4	12.5
80°-90°	615.3	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°	48306.8	100.0
0°-180°	48306.8	100.0



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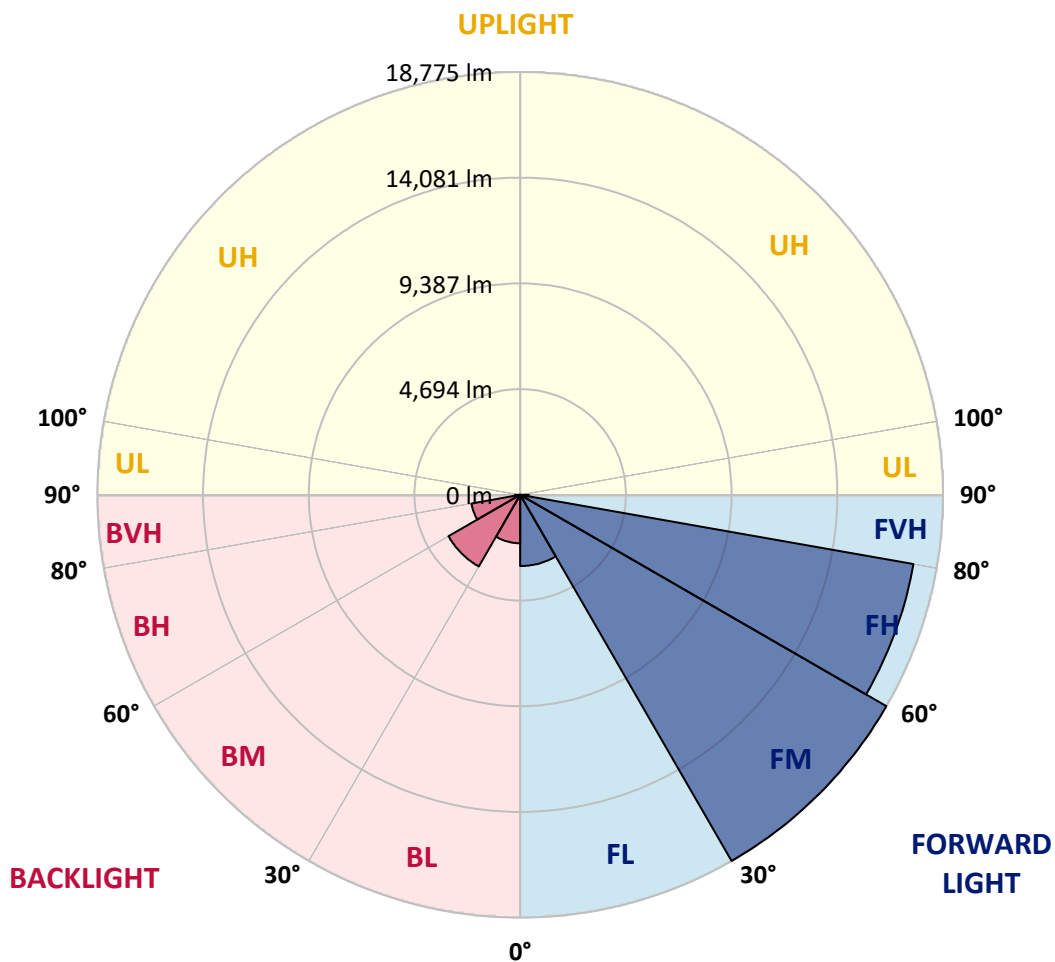
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3161.9	6.5			
FM	(30°-60°)	18774.6	38.9			
FH	(60°-80°)	17731.5	36.7			G5
FVH	(80°-90°)	385.9	0.8			G3/500
BL	(0°-30°)	2149.4	4.4	B3/2500		
BM	(30°-60°)	3676.2	7.6	B3/5000		
BH	(60°-80°)	2197.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	229.4	0.5			G3/500
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°	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9
2.5°	6089.6	6130.7	6165.0	6196.9	6260.9	6365.8	6486.8	6584.9	6726.4	6753.8	6829.2
5°	5530.5	5530.5	5557.8	5605.8	5692.5	5849.9	6014.3	6233.5	6541.6	6614.6	6815.5
7.5°	5258.8	5261.1	5277.1	5318.2	5393.5	5537.3	5717.6	5975.6	6393.2	6514.2	6856.5
10°	5359.2	5336.4	5302.2	5281.7	5293.1	5377.6	5548.7	5836.3	6301.9	6457.2	6947.9
12.5°	5920.7	5877.4	5758.7	5601.2	5450.6	5388.9	5489.4	5770.1	6263.1	6443.5	7068.8
15°	6838.3	6820.0	6598.6	6272.2	5907.0	5601.2	5532.7	5745.0	6267.7	6459.4	7212.6
17.5°	7988.6	7963.6	7671.4	7196.7	6600.9	6005.2	5685.7	5765.6	6283.7	6486.8	7351.8
20°	9150.5	9072.9	8757.9	8191.8	7427.1	6555.3	5939.0	5818.0	6304.2	6516.5	7497.9
22.5°	10017.8	9953.9	9670.9	9120.7	8239.8	7192.1	6279.1	5909.4	6370.4	6603.2	7678.3
25°	10780.2	10784.7	10504.0	9972.1	9061.4	7867.7	6717.3	6153.6	6539.3	6781.2	7924.8
27.5°	11722.8	11668.0	11405.5	10878.3	9874.0	8550.1	7246.9	6489.1	6790.3	7034.6	8248.9
30°	12850.3	12811.5	12507.9	11910.0	10775.6	9282.9	7851.8	6879.3	7114.5	7367.8	8673.4
32.5°	14176.5	14158.3	13843.2	13074.0	11816.4	10145.6	8561.6	7395.2	7598.4	7860.9	9282.9
35°	15733.1	15735.4	15363.4	14439.0	12955.4	11149.9	9367.3	8059.4	8187.3	8461.1	10008.7
37.5°	16691.8	16808.2	16668.9	15726.2	14244.9	12272.9	10412.6	8940.5	8858.2	9134.4	10787.0
40°	16897.2	17038.7	17479.2	16999.9	15687.5	13510.0	11339.3	9787.3	9684.6	10022.4	11789.0
42.5°	16609.6	16805.9	17737.1	18074.9	17219.0	15034.7	12585.6	11044.9	10914.8	11369.0	13035.3
45°	16438.4	16584.5	17661.8	18634.2	18547.4	16758.0	14171.9	12624.3	12576.5	13172.1	14473.2
47.5°	16141.7	16274.0	17310.3	18764.2	19328.0	18337.4	16077.7	14555.4	14649.0	15429.6	16096.0
50°	16301.4	16356.3	16917.8	18433.3	19554.0	19494.7	18207.3	16792.1	17111.7	18086.4	17933.5
52.5°	16278.6	16420.1	16872.0	17890.1	19583.7	20209.0	20305.0	19286.9	19960.2	21078.7	19971.7
55°	13160.8	13421.0	16335.7	17753.1	19688.6	20909.7	22171.9	21916.3	23171.7	24475.0	22272.4
57.5°	12567.4	12731.6	14347.6	18040.7	20245.5	22247.3	24249.0	24810.5	26910.4	28423.7	25075.3
60°	12450.9	12654.0	14327.1	18392.2	21375.4	24427.0	27328.1	28314.2	31459.4	33116.5	28325.5
62.5°	12088.0	12307.1	14192.4	18346.5	22980.0	27442.2	31270.0	32039.1	35773.3	37384.7	31044.0
65°	10937.6	11143.0	13094.6	17609.3	24061.8	30660.5	35935.3	35453.7	39178.7	40390.7	32399.7
66°	10150.1	10351.0	12229.5	16741.9	23810.8	31573.5	37587.8	36510.5	39941.0	40890.6	32135.0
67.5°	8709.9	8867.4	10549.6	14799.5	22475.6	31829.1	38977.9	37304.8	40020.9	40356.4	30621.7
70°	5503.1	5548.7	6856.5	10216.4	17013.6	27604.2	36862.0	35332.7	36720.5	35812.1	25671.1
72.5°	2387.5	2371.5	3291.3	5197.2	9632.0	18522.3	29818.3	29154.1	28804.9	26732.4	17970.0
75°	1328.4	1346.6	1709.6	2412.5	3914.4	9097.9	19506.0	18666.1	15760.5	13448.3	8148.4
77.5°	1065.9	1091.0	1417.4	1711.9	1757.5	3172.7	9127.6	7427.1	4471.4	3588.1	2264.2
80°	842.2	887.9	1237.1	1333.0	1184.6	1307.8	2949.0	2357.8	1768.9	1622.8	1173.2
82.5°	666.5	698.5	1061.3	1008.8	828.6	881.1	1412.9	1376.4	1150.4	1047.7	677.9
85°	479.4	538.7	871.9	760.1	543.2	593.4	938.1	899.3	659.6	538.7	299.0
87.5°	196.3	255.6	616.2	504.4	303.6	276.2	467.9	440.5	312.7	228.2	148.3
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°	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9	6883.9
2.5°	6877.1	6931.9	7002.6	7046.0	7068.8	7084.9	7109.9	7107.7	7114.5	7116.8	7125.9
5°	6922.7	7014.1	7116.8	7144.2	7144.2	7119.0	7094.0	7052.8	7036.9	7032.3	7036.9
7.5°	7041.5	7141.8	7230.9	7198.9	7130.5	7030.0	6899.9	6785.8	6724.2	6703.6	6699.1
10°	7192.1	7313.1	7349.6	7228.6	7027.8	6785.8	6527.9	6340.8	6233.5	6203.8	6194.7
12.5°	7374.7	7488.8	7438.6	7183.0	6810.9	6420.7	6064.6	5765.6	5541.8	5471.0	5466.5
15°	7575.6	7664.6	7488.8	7041.5	6486.8	5911.6	5277.1	4761.2	4482.8	4393.8	4386.9
17.5°	7762.7	7808.4	7459.2	6795.0	6009.7	5078.5	4236.2	3839.1	3743.3	3766.1	3770.7
20°	7922.4	7922.4	7358.7	6441.1	5258.8	3980.6	3448.8	3442.0	3510.5	3578.9	3592.6
22.5°	8098.2	7993.2	7183.0	5941.3	4195.2	3257.1	3179.5	3243.4	3321.0	3396.3	3407.8
25°	8315.1	8050.3	6938.8	5183.5	3298.2	2958.1	2987.7	3040.2	3079.1	3127.0	3133.8
27.5°	8557.0	8123.4	6616.9	4140.4	2862.2	2771.0	2793.8	2812.0	2807.5	2825.7	2830.3
30°	8846.9	8207.7	6176.4	3236.5	2681.9	2611.2	2570.1	2554.1	2554.1	2583.8	2595.2
32.5°	9234.9	8333.4	5544.1	2773.2	2595.2	2497.0	2364.7	2305.3	2328.1	2428.6	2451.4
35°	9661.8	8468.0	4688.2	2615.7	2576.9	2444.5	2239.1	2129.6	2131.8	2225.4	2255.1
37.5°	10127.3	8639.1	3750.1	2586.0	2618.0	2446.8	2173.0	2022.3	1960.7	1960.7	1972.0
40°	10723.1	8815.0	3035.7	2606.6	2704.8	2474.2	2138.7	1937.8	1764.4	1768.9	1778.1
42.5°	11499.1	8965.6	2652.2	2650.0	2809.7	2510.7	2136.4	1826.0	1675.4	1778.1	1871.6
45°	12361.8	9040.8	2483.3	2688.7	2894.1	2533.5	2099.9	1807.8	1686.7	1992.6	2170.6
47.5°	13354.7	8997.6	2389.7	2702.4	2914.7	2533.5	2058.8	1851.1	1766.6	2307.6	2515.3
50°	14443.6	8872.0	2298.5	2675.0	2907.8	2528.9	2097.6	1894.5	1796.3	2362.4	2506.1
52.5°	15724.0	8767.0	2202.6	2615.7	2860.0	2503.9	2143.3	1876.2	1702.7	2147.8	2248.2
55°	17184.8	8796.7	2095.3	2531.3	2784.6	2455.9	2127.2	1803.2	1604.6	1892.2	1953.8
57.5°	19051.8	9150.5	1967.5	2424.0	2681.9	2376.0	2070.2	1768.9	1574.9	1716.4	1752.9
60°	21135.7	9766.7	1807.8	2316.7	2554.1	2248.2	2026.9	1784.9	1588.6	1702.7	1721.0
62.5°	22665.0	10125.1	1670.8	2159.2	2380.6	2106.8	1972.0	1805.4	1625.2	1750.7	1746.1
65°	23080.4	9536.2	1499.5	1928.7	2145.5	1958.3	1903.6	1828.2	1641.1	1789.4	1768.9
66°	22498.4	8901.6	1424.3	1821.5	2026.9	1885.3	1869.3	1826.0	1634.3	1794.1	1759.8
67.5°	21085.5	7600.6	1294.1	1663.9	1837.4	1775.7	1814.6	1805.4	1616.0	1789.4	1741.6
70°	17196.2	5185.7	1107.0	1385.5	1529.2	1563.5	1709.6	1732.4	1556.6	1709.6	1604.6
72.5°	12015.0	3159.0	979.2	1075.0	1237.1	1333.0	1565.7	1632.0	1476.7	1492.7	1392.3
75°	5806.6	1677.6	887.9	833.1	961.0	1113.9	1392.3	1495.0	1351.2	1248.5	1212.0
77.5°	1810.0	1024.8	753.2	671.1	753.2	899.3	1164.0	1310.1	1202.9	1045.4	1031.6
80°	972.3	753.2	579.7	538.7	595.8	705.3	915.2	1093.3	1034.0	938.1	837.7
82.5°	641.4	488.5	429.1	417.7	454.2	538.7	680.2	906.1	906.1	803.4	584.3
85°	330.9	299.0	294.4	294.4	317.2	358.3	463.3	698.5	744.1	424.5	351.5
87.5°	164.4	171.1	159.8	166.6	178.0	175.7	221.4	351.5	420.0	257.9	214.5
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)