

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: P191498

Luminaire Tested: **GLEON-AF-10-LED-E1-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191498
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-10-LED-E1-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 61621.6 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full 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

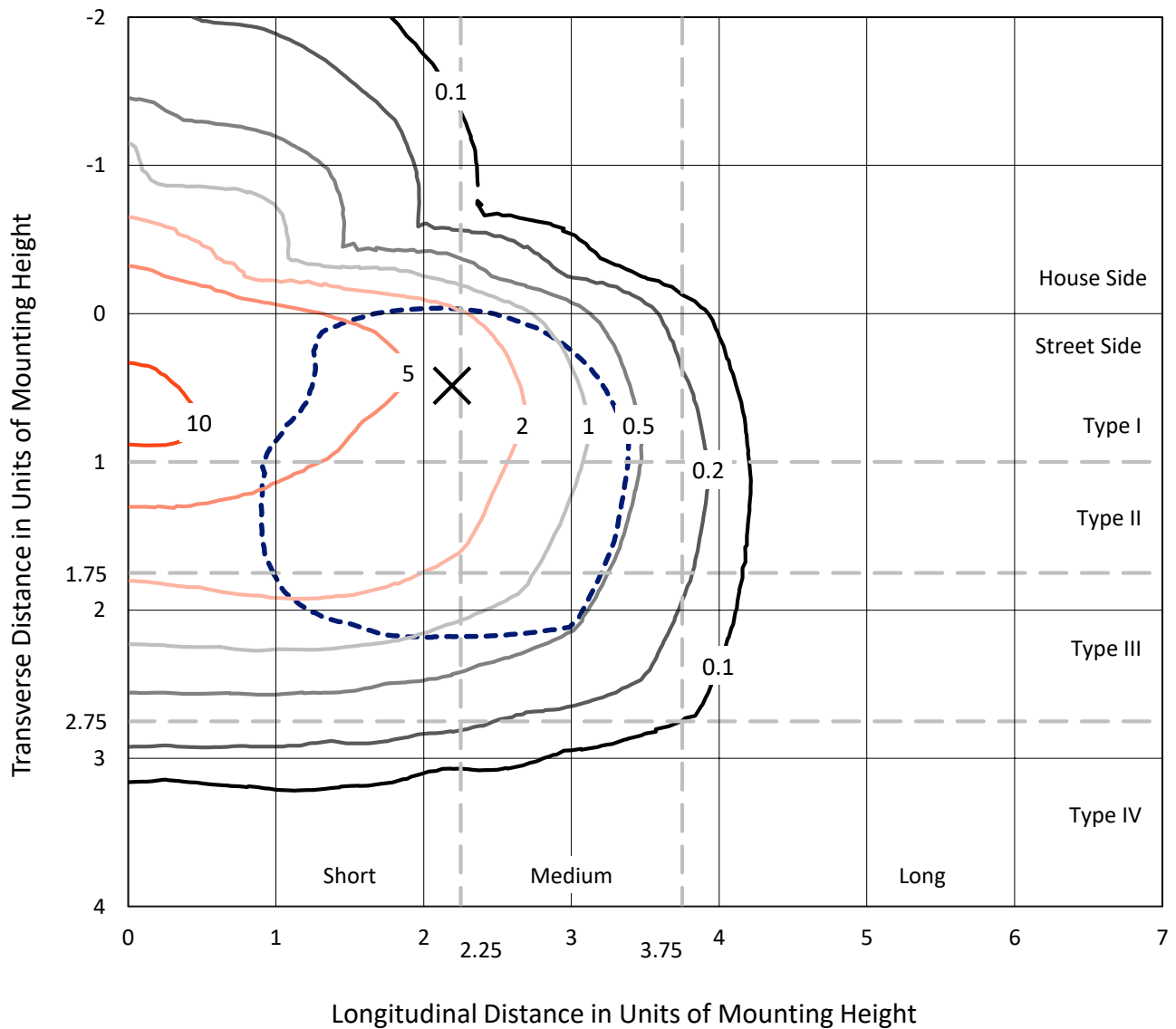


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

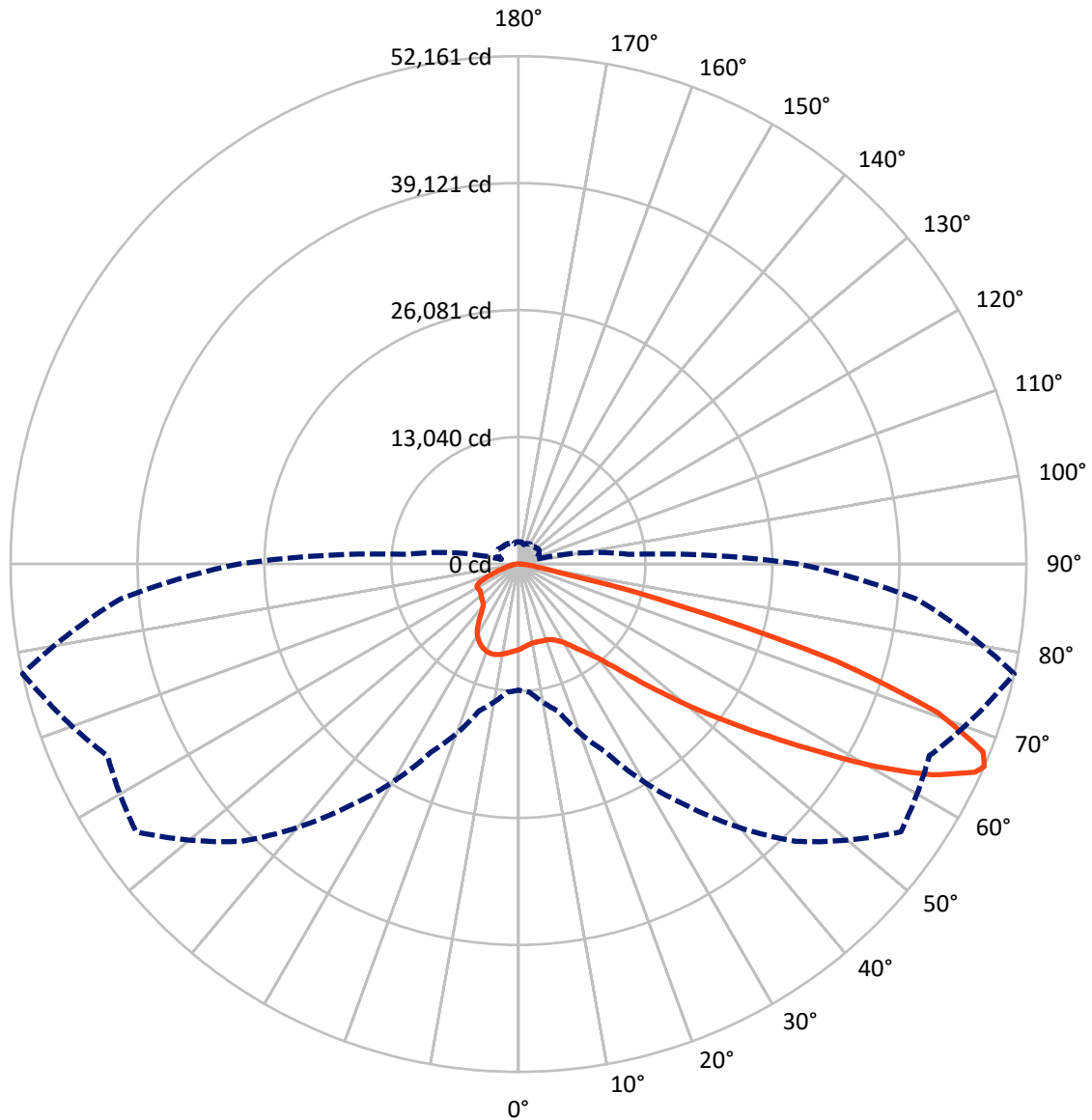


Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - Full Cutoff

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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	10527.7	0.0	10527.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	51093.9	0.0	51093.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	61621.6	0.0	61621.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.5	1.3
10°-20°	2213.3	3.6
20°-30°	3777.4	6.1
30°-40°	6046.9	9.8
40°-50°	9341.9	15.2
50°-60°	13250.0	21.5
60°-70°	17725.0	28.8
70°-80°	7697.6	12.5
80°-90°	784.9	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°	61621.6	100.0
0°-180°	61621.6	100.0



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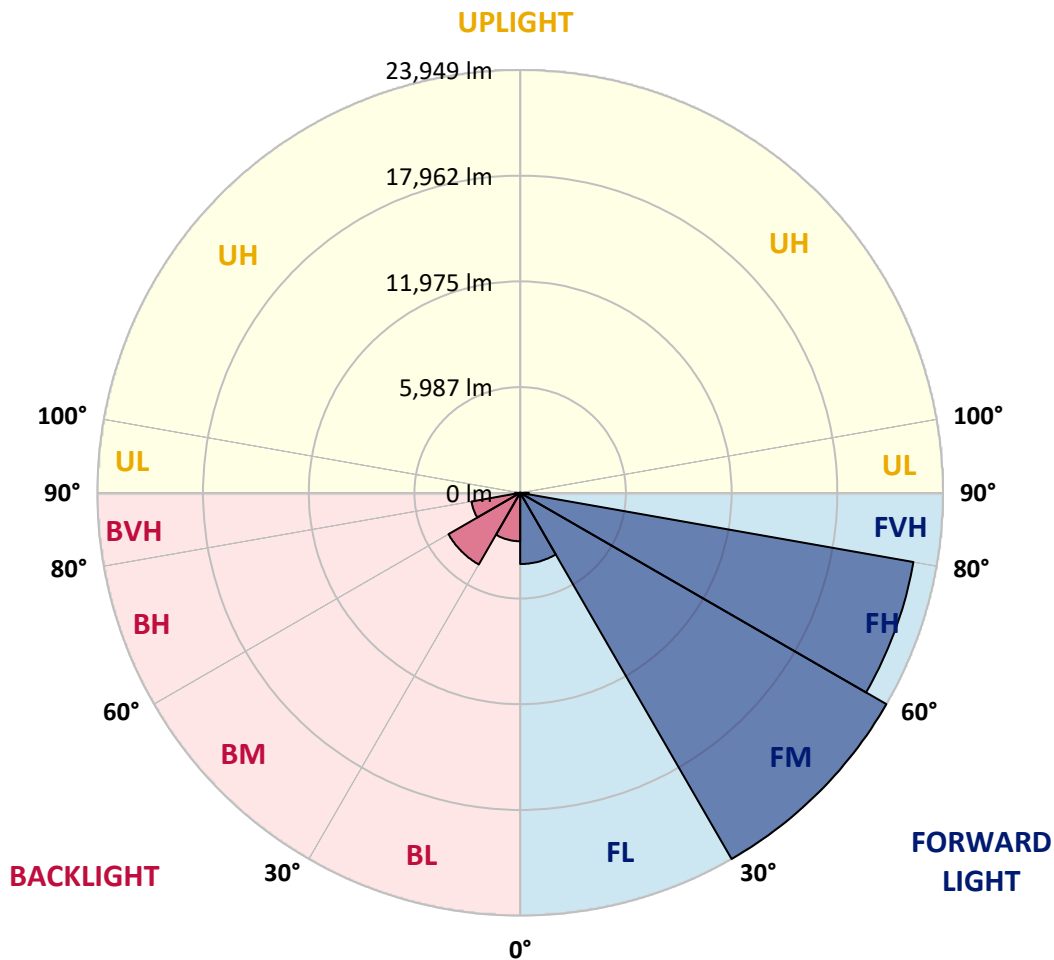
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4033.4	6.5			
FM	(30°-60°)	23949.4	38.9			
FH	(60°-80°)	22618.9	36.7			G5
FVH	(80°-90°)	492.3	0.8			G3/500
BL	(0°-30°)	2741.8	4.4	B4/5000		
BM	(30°-60°)	4689.5	7.6	B3/5000		
BH	(60°-80°)	2803.7	4.5	B4/5000		G4/5000
BVH	(80°-90°)	292.6	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3
2.5°	7768.1	7820.6	7864.2	7905.0	7986.5	8120.4	8274.8	8400.0	8580.5	8615.4	8711.4
5°	7054.8	7054.8	7089.8	7150.8	7261.5	7462.4	7672.0	7951.6	8344.6	8437.8	8694.1
7.5°	6708.3	6711.2	6731.6	6784.0	6880.1	7063.5	7293.5	7622.5	8155.4	8309.6	8746.4
10°	6836.4	6807.3	6763.6	6737.5	6752.0	6859.7	7078.1	7444.9	8038.9	8236.9	8862.8
12.5°	7552.7	7497.3	7345.9	7145.0	6952.9	6874.2	7002.4	7360.5	7989.5	8219.4	9017.2
15°	8723.1	8699.8	8417.5	8001.0	7535.2	7145.0	7057.7	7328.5	7995.3	8239.8	9200.6
17.5°	10190.5	10158.5	9785.9	9180.3	8420.3	7660.4	7252.8	7354.7	8015.6	8274.8	9378.2
20°	11672.6	11573.6	11171.7	10449.7	9474.4	8362.1	7576.0	7421.6	8041.8	8312.6	9564.6
22.5°	12779.0	12697.5	12336.4	11634.7	10510.8	9174.4	8009.8	7538.1	8126.2	8423.3	9794.5
25°	13751.4	13757.3	13399.1	12720.7	11559.0	10036.3	8568.8	7849.6	8341.8	8650.4	10109.0
27.5°	14953.9	14884.0	14549.2	13876.6	12595.6	10906.8	9244.3	8277.6	8661.9	8973.5	10522.5
30°	16392.3	16342.8	15955.5	15192.7	13745.6	11841.5	10015.9	8775.6	9075.4	9398.7	11064.0
32.5°	18083.9	18060.6	17658.8	16677.6	15073.3	12942.1	10921.4	9433.6	9692.7	10027.5	11841.5
35°	20069.6	20072.5	19597.9	18418.7	16526.2	14223.1	11949.2	10280.9	10443.9	10793.3	12767.3
37.5°	21292.5	21440.9	21263.4	20060.9	18171.3	15655.6	13282.7	11404.7	11299.9	11652.2	13760.2
40°	21554.5	21735.0	22297.0	21685.5	20011.4	17233.8	14464.8	12484.9	12353.9	12784.8	15038.4
42.5°	21187.7	21438.1	22625.9	23056.9	21965.0	19178.7	16054.5	14089.2	13923.3	14502.7	16628.1
45°	20969.3	21155.6	22529.9	23770.2	23659.6	21376.9	18078.1	16104.0	16042.8	16802.8	18462.4
47.5°	20590.8	20759.7	22081.5	23936.2	24655.4	23391.7	20509.2	18567.3	18686.5	19682.4	20532.6
50°	20794.5	20864.5	21580.7	23514.1	24943.6	24867.9	23225.8	21420.6	21828.2	23071.4	22876.4
52.5°	20765.5	20946.0	21522.5	22821.0	24981.5	25779.3	25901.5	24603.0	25461.9	26888.6	25476.4
55°	16788.3	17120.2	20838.2	22646.4	25115.4	26673.1	28283.2	27957.1	29558.5	31221.0	28411.3
57.5°	16031.3	16240.9	18302.2	23013.2	25825.8	28379.3	30932.7	31649.0	34327.7	36258.1	31986.8
60°	15882.7	16141.9	18276.0	23461.6	27267.1	31159.9	34860.5	36118.3	40130.5	42244.3	36132.9
62.5°	15419.8	15699.3	18104.3	23403.4	29313.9	35006.1	39888.8	40870.1	45633.4	47688.9	39600.6
65°	13952.3	14214.4	16703.8	22463.0	30694.0	39111.4	45840.1	45225.8	49977.5	51523.6	41330.1
66°	12947.9	13204.0	15600.3	21356.6	30373.8	40276.0	47948.1	46573.8	50949.9	52161.2	40992.3
67.5°	11110.7	11311.6	13457.3	18878.8	28670.4	40602.1	49721.2	47587.1	51051.9	51479.9	39061.9
70°	7019.9	7078.1	8746.4	13032.3	21703.0	35212.8	47022.2	45071.4	46841.7	45682.8	32746.7
72.5°	3045.5	3025.2	4198.5	6629.7	12287.0	23627.6	38037.0	37189.8	36744.3	34100.6	22923.0
75°	1694.5	1717.8	2180.8	3077.5	4993.3	11605.6	24882.5	23811.0	20104.6	17155.1	10394.4
77.5°	1359.7	1391.7	1808.1	2183.7	2241.9	4047.1	11643.4	9474.4	5703.8	4577.0	2888.3
80°	1074.4	1132.6	1578.1	1700.3	1511.1	1668.3	3761.8	3007.7	2256.5	2070.1	1496.6
82.5°	850.2	891.0	1353.9	1287.0	1056.9	1123.9	1802.2	1755.7	1467.4	1336.4	864.7
85°	611.4	687.1	1112.3	969.6	692.9	757.0	1196.6	1147.1	841.5	687.1	381.5
87.5°	250.4	326.1	786.1	643.4	387.3	352.3	596.9	561.9	398.8	291.1	189.2
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°	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3	8781.3
2.5°	8772.6	8842.5	8932.7	8988.1	9017.2	9037.6	9069.6	9066.7	9075.4	9078.4	9089.9
5°	8830.8	8947.3	9078.4	9113.3	9113.3	9081.2	9049.2	8996.9	8976.4	8970.7	8976.4
7.5°	8982.2	9110.4	9223.9	9183.1	9095.8	8967.7	8801.8	8656.2	8577.5	8551.4	8545.5
10°	9174.4	9328.7	9375.3	9221.0	8964.8	8656.2	8327.1	8088.4	7951.6	7913.8	7902.1
12.5°	9407.4	9552.9	9488.9	9162.8	8688.2	8190.4	7736.1	7354.7	7069.3	6979.1	6973.3
15°	9663.6	9777.2	9552.9	8982.2	8274.8	7541.0	6731.6	6073.6	5718.4	5604.8	5596.1
17.5°	9902.4	9960.6	9515.1	8667.8	7666.2	6478.2	5403.9	4897.3	4775.0	4804.1	4809.9
20°	10106.1	10106.1	9387.0	8216.5	6708.3	5077.8	4399.4	4390.7	4478.1	4565.3	4582.8
22.5°	10330.4	10196.4	9162.8	7578.8	5351.5	4154.8	4055.9	4137.3	4236.3	4332.4	4347.0
25°	10607.0	10269.2	8851.3	6612.3	4207.3	3773.5	3811.3	3878.2	3927.7	3988.9	3997.6
27.5°	10915.6	10362.4	8440.7	5281.6	3651.1	3534.7	3563.8	3587.1	3581.2	3604.6	3610.4
30°	11285.3	10470.1	7878.8	4128.6	3421.2	3330.8	3278.5	3258.1	3258.1	3295.9	3310.5
32.5°	11780.3	10630.2	7072.3	3537.6	3310.5	3185.3	3016.4	2940.7	2969.8	3097.9	3127.1
35°	12324.8	10802.1	5980.4	3336.7	3287.2	3118.4	2856.3	2716.5	2719.4	2838.8	2876.6
37.5°	12918.7	11020.4	4783.7	3298.8	3339.6	3121.2	2771.8	2579.7	2501.0	2501.0	2515.6
40°	13678.7	11244.6	3872.4	3325.0	3450.2	3156.2	2728.2	2472.0	2250.7	2256.5	2268.1
42.5°	14668.6	11436.7	3383.3	3380.3	3584.2	3202.8	2725.2	2329.3	2137.1	2268.1	2387.5
45°	15769.2	11532.8	3167.8	3429.9	3691.9	3231.9	2678.7	2305.9	2151.7	2541.8	2768.9
47.5°	17035.7	11477.5	3048.4	3447.3	3718.1	3231.9	2626.2	2361.3	2253.6	2943.6	3208.6
50°	18424.6	11317.3	2932.0	3412.4	3709.3	3226.1	2675.7	2416.6	2291.4	3013.5	3196.9
52.5°	20057.9	11183.4	2809.6	3336.7	3648.3	3194.1	2733.9	2393.3	2172.0	2739.8	2867.9
55°	21921.4	11221.3	2672.9	3228.9	3552.1	3132.9	2713.6	2300.2	2046.8	2413.8	2492.3
57.5°	24303.1	11672.6	2509.8	3092.1	3421.2	3031.0	2640.8	2256.5	2009.0	2189.5	2236.1
60°	26961.3	12458.7	2305.9	2955.3	3258.1	2867.9	2585.5	2276.9	2026.5	2172.0	2195.4
62.5°	28912.1	12915.8	2131.3	2754.4	3036.8	2687.4	2515.6	2303.1	2073.0	2233.2	2227.4
65°	29442.1	12164.6	1912.9	2460.3	2736.9	2498.1	2428.3	2332.2	2093.5	2282.7	2256.5
66°	28699.6	11355.2	1816.9	2323.4	2585.5	2405.0	2384.6	2329.3	2084.7	2288.5	2244.9
67.5°	26897.3	9695.6	1650.8	2122.5	2343.8	2265.2	2314.7	2303.1	2061.5	2282.7	2221.5
70°	21936.0	6615.1	1412.1	1767.4	1950.8	1994.4	2180.8	2209.9	1985.8	2180.8	2046.8
72.5°	15326.7	4029.6	1249.0	1371.4	1578.1	1700.3	1997.3	2081.8	1883.8	1904.2	1776.0
75°	7407.1	2140.0	1132.6	1062.7	1225.8	1420.9	1776.0	1907.1	1723.7	1592.6	1546.1
77.5°	2308.9	1307.3	960.9	856.0	960.9	1147.1	1484.9	1671.3	1534.4	1333.5	1316.0
80°	1240.3	960.9	739.6	687.1	760.0	899.7	1167.6	1394.7	1319.0	1196.6	1068.6
82.5°	818.2	623.1	547.4	532.9	579.4	687.1	867.7	1155.9	1155.9	1024.9	745.3
85°	422.2	381.5	375.6	375.6	404.7	457.2	591.1	891.0	949.2	541.6	448.4
87.5°	209.6	218.4	203.8	212.6	227.1	224.2	282.4	448.4	535.7	329.0	273.6
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)