

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: P269669

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269669
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-09-LED-E1-T3R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 47271.1 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

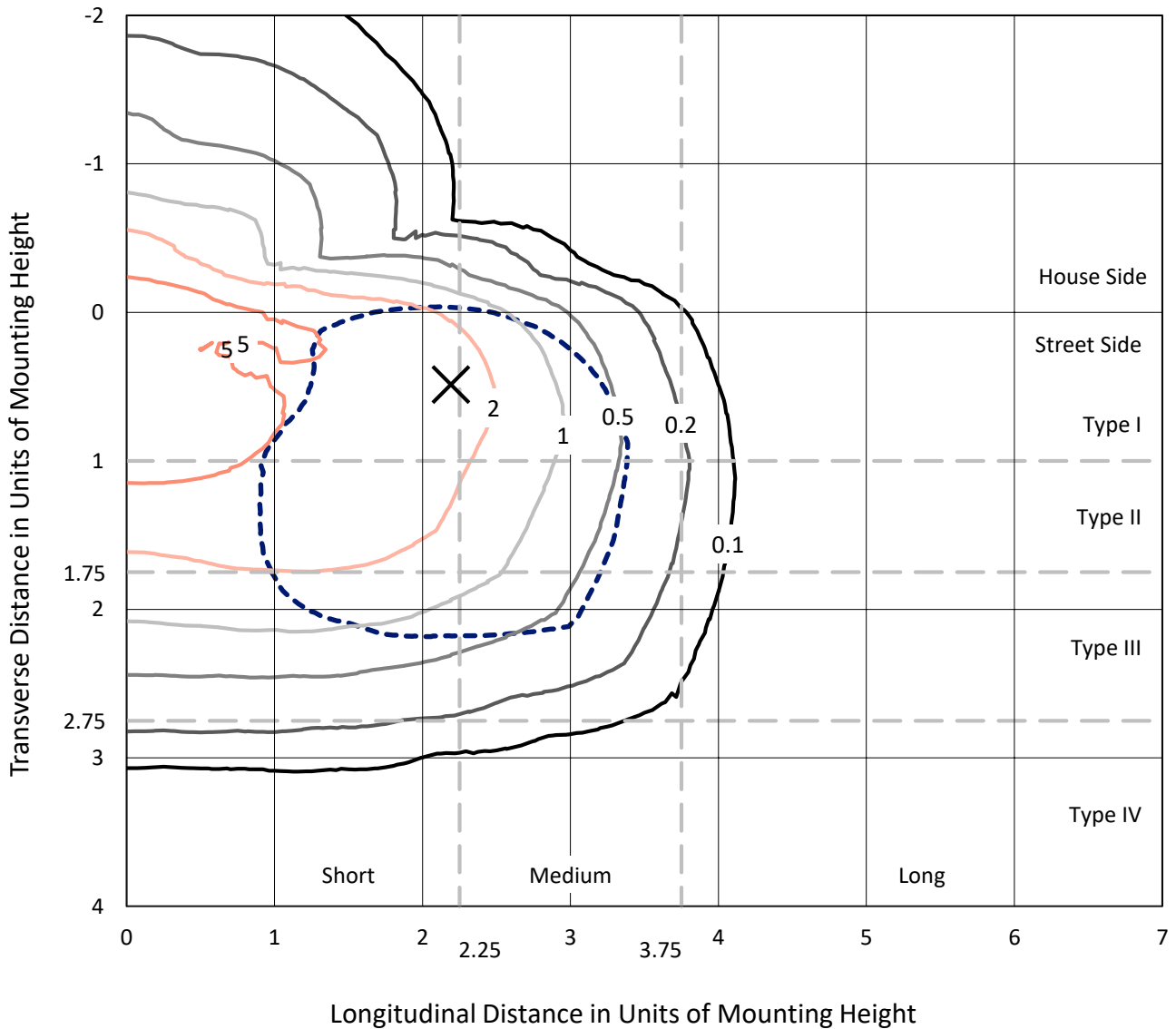
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

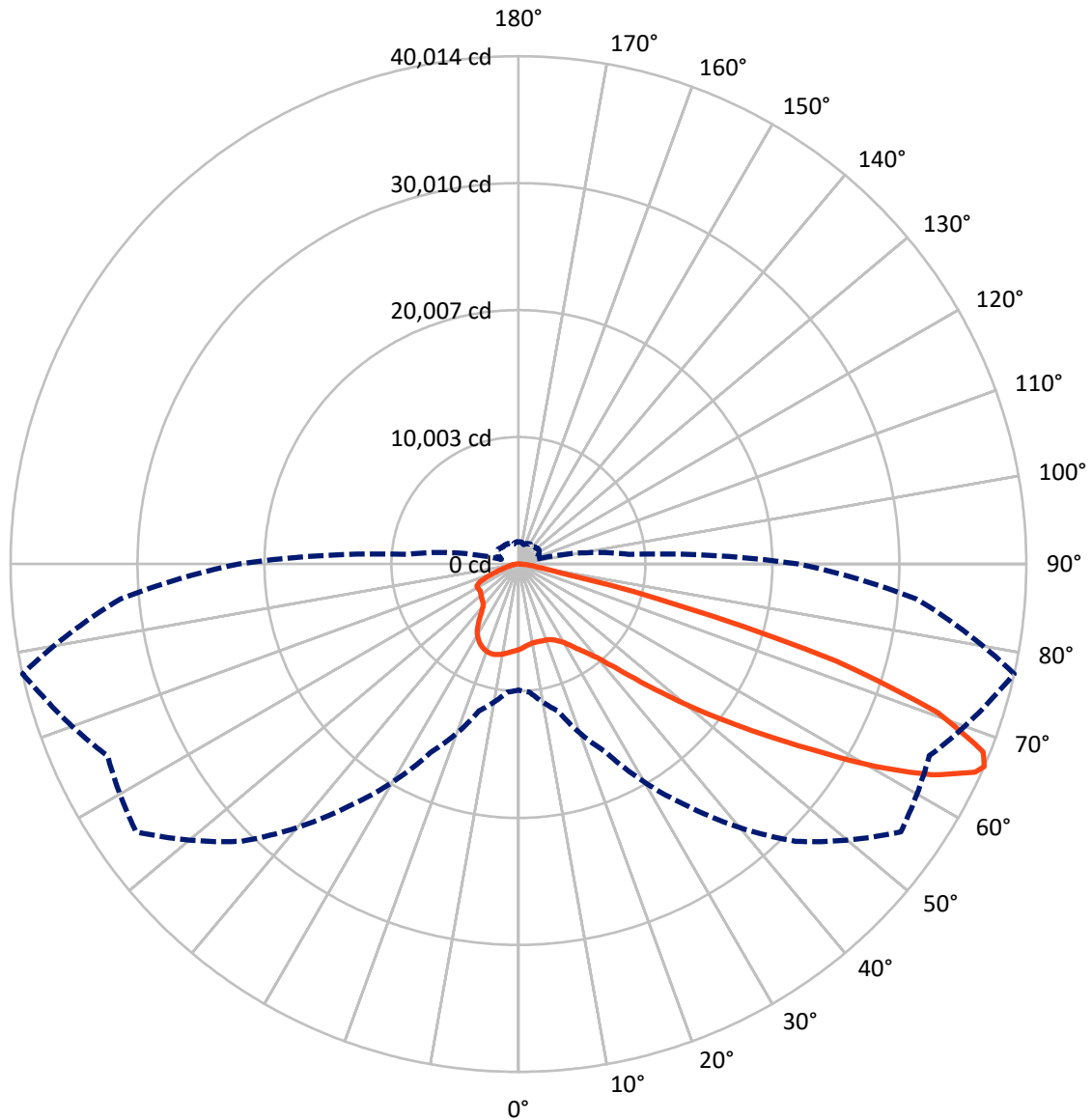
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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	8076.0	0.0	8076.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	39195.1	0.0	39195.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	47271.1	0.0	47271.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.8	1.3
10°-20°	1697.9	3.6
20°-30°	2897.7	6.1
30°-40°	4638.7	9.8
40°-50°	7166.4	15.2
50°-60°	10164.4	21.5
60°-70°	13597.2	28.8
70°-80°	5905.0	12.5
80°-90°	602.1	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°	47271.1	100.0
0°-180°	47271.1	100.0



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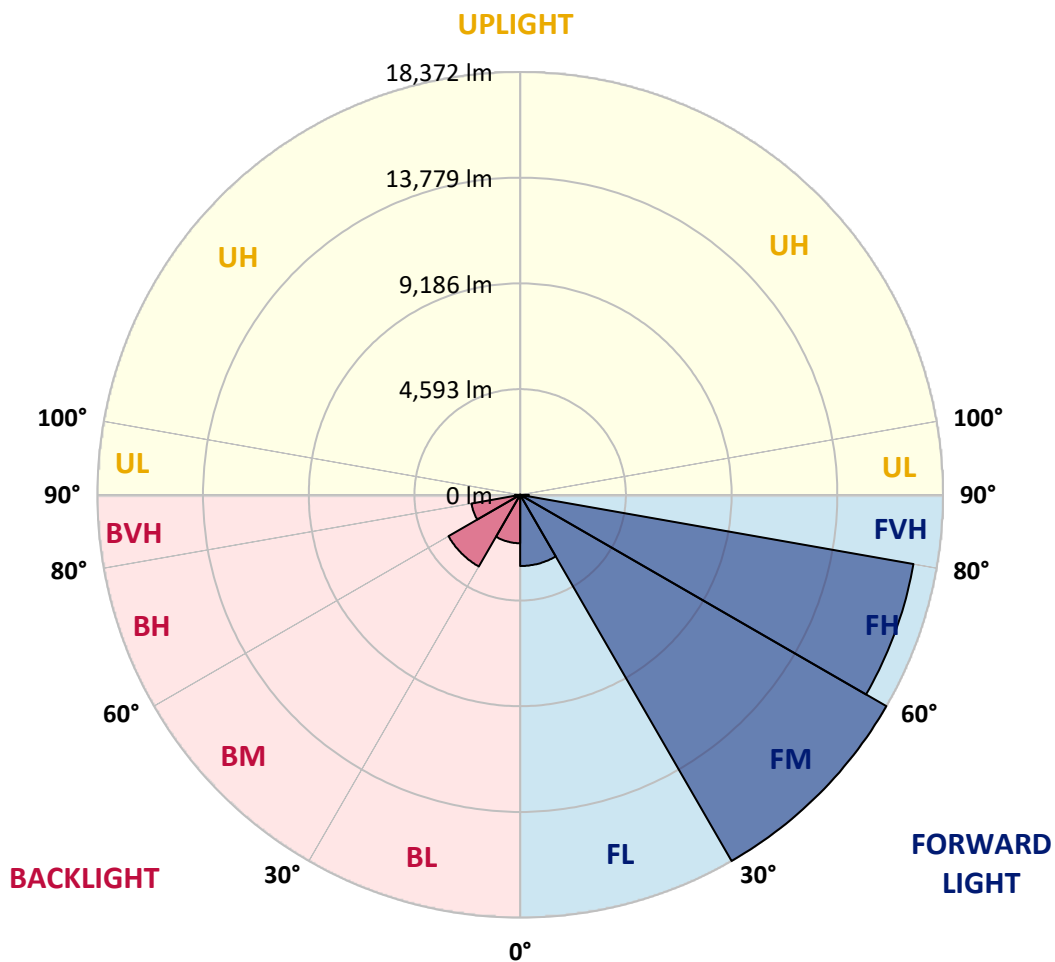
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3094.1	6.5			
FM	(30°-60°)	18372.0	38.9			
FH	(60°-80°)	17351.4	36.7			G5
FVH	(80°-90°)	377.6	0.8			G3/500
BL	(0°-30°)	2103.3	4.4	B3/2500		
BM	(30°-60°)	3597.4	7.6	B3/5000		
BH	(60°-80°)	2150.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	224.5	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°	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4
2.5°	5959.0	5999.3	6032.7	6064.1	6126.6	6229.3	6347.8	6443.7	6582.2	6609.0	6682.8
5°	5411.8	5411.8	5438.7	5485.6	5570.5	5724.5	5885.3	6099.9	6401.3	6472.7	6669.3
7.5°	5146.1	5148.2	5163.9	5204.2	5277.8	5418.5	5595.1	5847.3	6256.2	6374.6	6709.5
10°	5244.3	5221.9	5188.5	5168.4	5179.5	5262.2	5429.7	5711.2	6166.9	6318.7	6798.9
12.5°	5793.8	5751.4	5635.2	5481.1	5333.6	5273.4	5371.7	5646.3	6128.9	6305.3	6917.3
15°	6691.7	6673.8	6457.1	6137.8	5780.5	5481.1	5414.2	5621.9	6133.3	6321.0	7058.1
17.5°	7817.4	7792.8	7507.0	7042.4	6459.4	5876.4	5563.7	5642.0	6149.0	6347.8	7194.3
20°	8954.2	8878.3	8570.1	8016.1	7267.9	6414.7	5811.7	5693.3	6169.0	6376.8	7337.1
22.5°	9803.1	9740.4	9463.6	8925.2	8063.0	7038.0	6144.4	5782.6	6233.8	6461.6	7513.7
25°	10548.9	10553.5	10278.8	9758.4	8867.2	7699.1	6573.3	6021.6	6399.0	6635.9	7754.9
27.5°	11471.4	11417.8	11161.0	10645.0	9662.3	8366.9	7091.5	6349.9	6644.9	6883.8	8072.0
30°	12574.8	12536.8	12239.8	11654.6	10544.6	9083.8	7683.4	6731.9	6962.0	7209.8	8487.5
32.5°	13872.5	13854.6	13546.4	12793.8	11563.1	9928.1	8378.0	7236.7	7435.5	7692.2	9083.8
35°	15395.8	15398.0	15033.9	14129.4	12677.6	10910.9	9166.5	7886.6	8011.8	8279.8	9794.1
37.5°	16333.9	16447.7	16311.6	15389.0	13939.4	12009.7	10189.5	8748.8	8668.4	8938.7	10555.8
40°	16534.9	16673.4	17104.4	16635.4	15351.1	13220.4	11096.3	9577.4	9476.8	9807.4	11536.3
42.5°	16253.5	16445.5	17356.8	17687.4	16849.8	14712.4	12315.8	10808.0	10680.8	11125.2	12755.8
45°	16085.9	16228.9	17283.1	18234.7	18149.7	16398.6	13868.0	12353.8	12306.8	12889.8	14162.9
47.5°	15795.5	15925.2	16939.2	18362.0	18913.6	17944.3	15733.0	14243.3	14334.9	15098.7	15750.9
50°	15951.9	16005.6	16555.0	18038.1	19134.7	19076.6	17817.0	16432.2	16744.9	17698.5	17548.8
52.5°	15929.6	16068.2	16510.3	17506.4	19163.8	19775.7	19869.6	18873.4	19532.2	20626.7	19543.4
55°	12878.6	13133.2	15985.5	17372.5	19266.5	20461.5	21696.7	21446.5	22674.8	23950.3	21794.9
57.5°	12297.8	12458.8	14040.0	17653.9	19811.5	21770.3	23729.1	24278.6	26333.5	27814.3	24537.7
60°	12183.9	12382.7	14019.9	17997.8	20917.2	23903.3	26742.2	27707.1	30784.8	32406.4	27718.2
62.5°	11828.8	12043.2	13888.2	17953.2	22487.4	26853.8	30599.4	31352.1	35006.3	36583.1	30378.3
65°	10703.1	10904.2	12813.9	17231.7	23546.0	30003.1	35164.8	34693.6	38338.8	39524.7	31705.0
66°	9932.6	10129.1	11967.3	16383.0	23300.2	30896.6	36781.9	35727.7	39084.7	40013.8	31446.0
67.5°	8523.2	8677.3	10323.4	14482.2	21993.7	31146.8	38142.2	36505.0	39162.9	39491.2	29965.1
70°	5385.1	5429.7	6709.5	9997.3	16648.7	27012.5	36071.7	34575.3	35933.2	35044.1	25120.7
72.5°	2336.3	2320.6	3220.8	5085.8	9425.6	18125.2	29178.9	28529.0	28187.2	26159.3	17584.6
75°	1299.8	1317.9	1673.0	2360.8	3830.6	8902.9	19087.8	18265.9	15422.6	13160.0	7973.7
77.5°	1043.0	1067.6	1387.1	1675.2	1719.8	3104.6	8931.9	7267.9	4375.6	3511.1	2215.7
80°	824.1	868.8	1210.6	1304.3	1159.3	1279.8	2885.7	2307.2	1731.0	1588.1	1148.0
82.5°	652.2	683.5	1038.6	987.2	810.8	862.2	1382.5	1346.7	1125.7	1025.1	663.4
85°	469.0	527.1	853.2	743.7	531.5	580.8	918.0	880.0	645.5	527.1	292.6
87.5°	192.1	250.2	603.0	493.6	297.1	270.3	457.9	431.0	306.1	223.4	145.2
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°	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4	6736.4
2.5°	6729.7	6783.2	6852.5	6894.9	6917.3	6932.8	6957.5	6955.2	6962.0	6964.2	6973.2
5°	6774.3	6863.7	6964.2	6991.0	6991.0	6966.4	6941.8	6901.7	6886.0	6881.6	6886.0
7.5°	6890.4	6988.8	7075.9	7044.6	6977.6	6879.3	6752.0	6640.4	6580.1	6560.0	6555.4
10°	7038.0	7156.3	7192.0	7073.7	6877.1	6640.4	6387.9	6204.8	6099.9	6070.7	6061.9
12.5°	7216.5	7328.3	7279.1	7029.0	6664.9	6282.9	5934.6	5642.0	5423.1	5353.8	5349.3
15°	7413.2	7500.2	7328.3	6890.4	6347.8	5784.8	5163.9	4659.1	4386.7	4299.6	4292.9
17.5°	7596.2	7641.0	7299.2	6649.3	5880.9	4969.7	4145.5	3756.8	3663.0	3685.3	3689.8
20°	7752.6	7752.6	7201.0	6303.0	5146.1	3895.3	3374.9	3368.1	3435.2	3502.2	3515.5
22.5°	7924.6	7821.8	7029.0	5813.9	4105.3	3187.2	3111.3	3173.8	3249.8	3323.5	3334.7
25°	8136.8	7877.6	6790.0	5072.4	3227.5	2894.7	2923.8	2975.0	3013.1	3059.9	3066.6
27.5°	8373.6	7949.2	6475.1	4051.6	2800.8	2711.5	2733.8	2751.7	2747.2	2765.2	2769.6
30°	8657.1	8031.8	6043.9	3167.2	2624.4	2555.1	2515.0	2499.4	2499.4	2528.4	2539.6
32.5°	9036.9	8154.6	5425.3	2713.8	2539.6	2443.5	2313.9	2255.9	2278.2	2376.5	2398.8
35°	9454.7	8286.4	4587.7	2559.6	2521.6	2392.1	2191.1	2083.9	2086.1	2177.8	2206.7
37.5°	9910.2	8453.9	3669.7	2530.5	2561.8	2394.3	2126.3	1979.0	1918.6	1918.6	1929.7
40°	10493.2	8626.0	2970.7	2550.6	2646.8	2421.1	2092.8	1896.3	1726.5	1731.0	1739.9
42.5°	11252.6	8773.3	2595.4	2593.1	2749.5	2457.0	2090.5	1786.8	1639.4	1739.9	1831.6
45°	12096.8	8847.0	2430.1	2631.1	2832.1	2479.2	2054.9	1768.9	1650.5	1950.0	2124.1
47.5°	13068.5	8804.6	2338.5	2644.5	2852.2	2479.2	2014.7	1811.4	1728.8	2258.1	2461.4
50°	14133.8	8681.8	2249.1	2617.8	2845.6	2474.8	2052.6	1853.8	1757.9	2311.7	2452.5
52.5°	15386.9	8579.1	2155.4	2559.6	2798.6	2450.1	2097.4	1836.0	1666.3	2101.8	2199.9
55°	16816.4	8608.1	2050.4	2476.9	2724.9	2403.2	2081.6	1764.5	1570.1	1851.5	1912.0
57.5°	18643.3	8954.2	1925.2	2372.1	2624.4	2325.2	2025.8	1731.0	1541.1	1679.7	1715.4
60°	20682.5	9557.2	1768.9	2267.1	2499.4	2199.9	1983.4	1746.7	1554.5	1666.3	1684.1
62.5°	22179.1	9907.9	1634.9	2113.0	2329.6	2061.6	1929.7	1766.7	1590.3	1713.1	1708.7
65°	22585.5	9331.8	1467.4	1887.3	2099.5	1916.4	1862.7	1789.1	1605.9	1751.1	1731.0
66°	22016.0	8710.9	1393.7	1782.3	1983.4	1844.8	1829.3	1786.8	1599.3	1755.6	1722.1
67.5°	20633.3	7437.6	1266.4	1628.3	1798.0	1737.7	1775.7	1766.7	1581.3	1751.1	1704.2
70°	16827.5	5074.5	1083.3	1355.7	1496.4	1530.0	1673.0	1695.2	1523.3	1673.0	1570.1
72.5°	11757.3	3091.2	958.2	1051.9	1210.6	1304.3	1532.1	1596.9	1445.2	1460.7	1362.5
75°	5682.0	1641.7	868.8	815.2	940.3	1090.0	1362.5	1463.0	1322.2	1221.8	1186.0
77.5°	1771.2	1002.9	737.1	656.8	737.1	880.0	1139.1	1282.1	1177.0	1023.0	1009.5
80°	951.5	737.1	567.3	527.1	583.0	690.2	895.6	1069.9	1011.9	918.0	819.8
82.5°	627.6	478.0	419.9	408.6	444.5	527.1	665.6	886.6	886.6	786.1	571.9
85°	323.8	292.6	288.1	288.1	310.5	350.7	453.5	683.5	728.2	415.5	344.1
87.5°	160.7	167.5	156.3	163.0	174.2	171.9	216.6	344.1	411.0	252.5	209.9
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)