

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: P651097

Luminaire Tested: **GALN-SA8C-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 48858.7 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

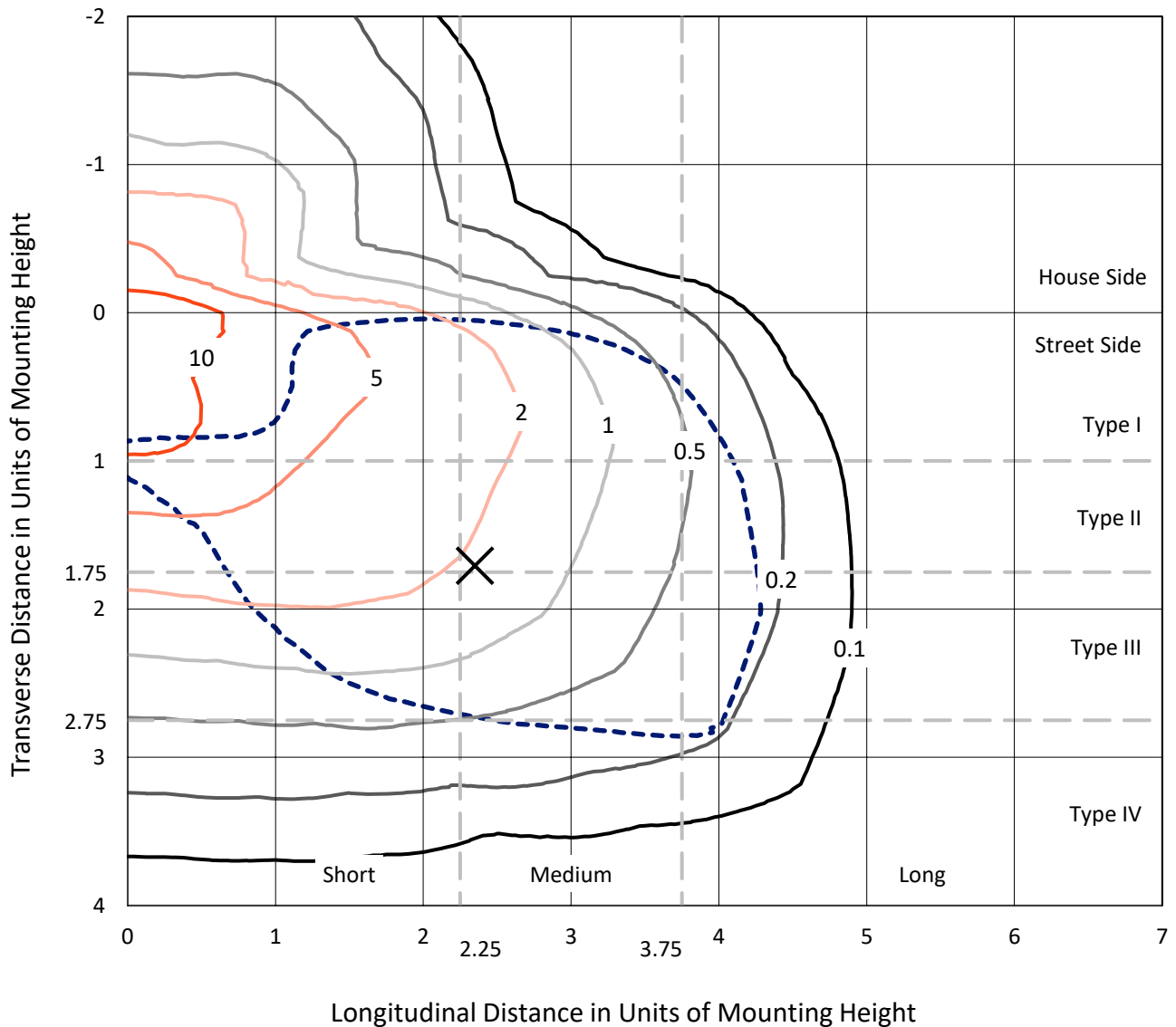
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

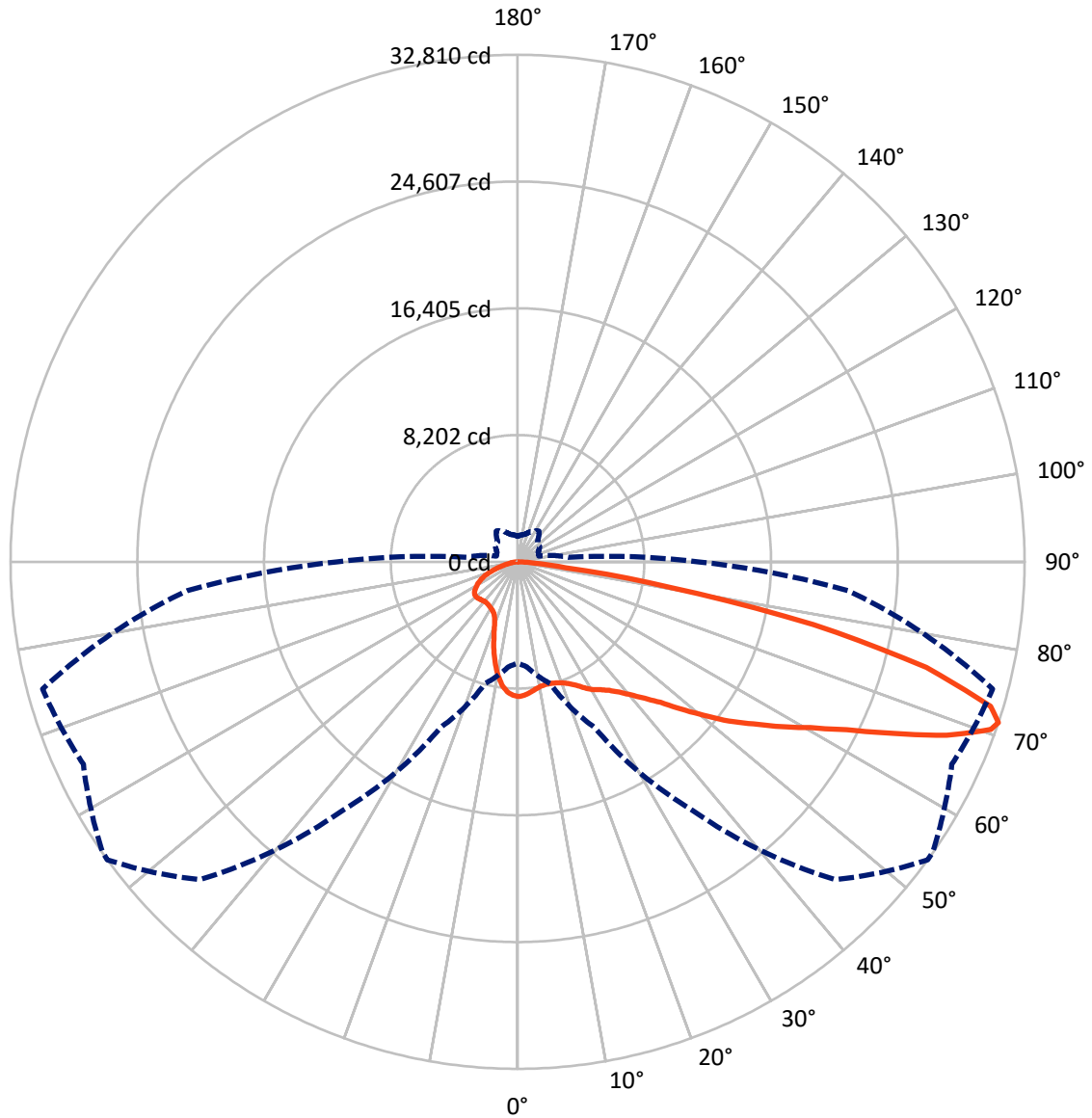
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8821.1	0.0	8821.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40037.6	0.0	40037.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	48858.7	0.0	48858.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.8	1.6
10°-20°	2051.2	4.2
20°-30°	3415.4	7.0
30°-40°	5050.2	10.3
40°-50°	7113.4	14.6
50°-60°	9525.1	19.5
60°-70°	12005.7	24.6
70°-80°	8199.8	16.8
80°-90°	721.1	1.5
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°	48858.7	100.0
0°-180°	48858.7	100.0

Coefficient of Utilization

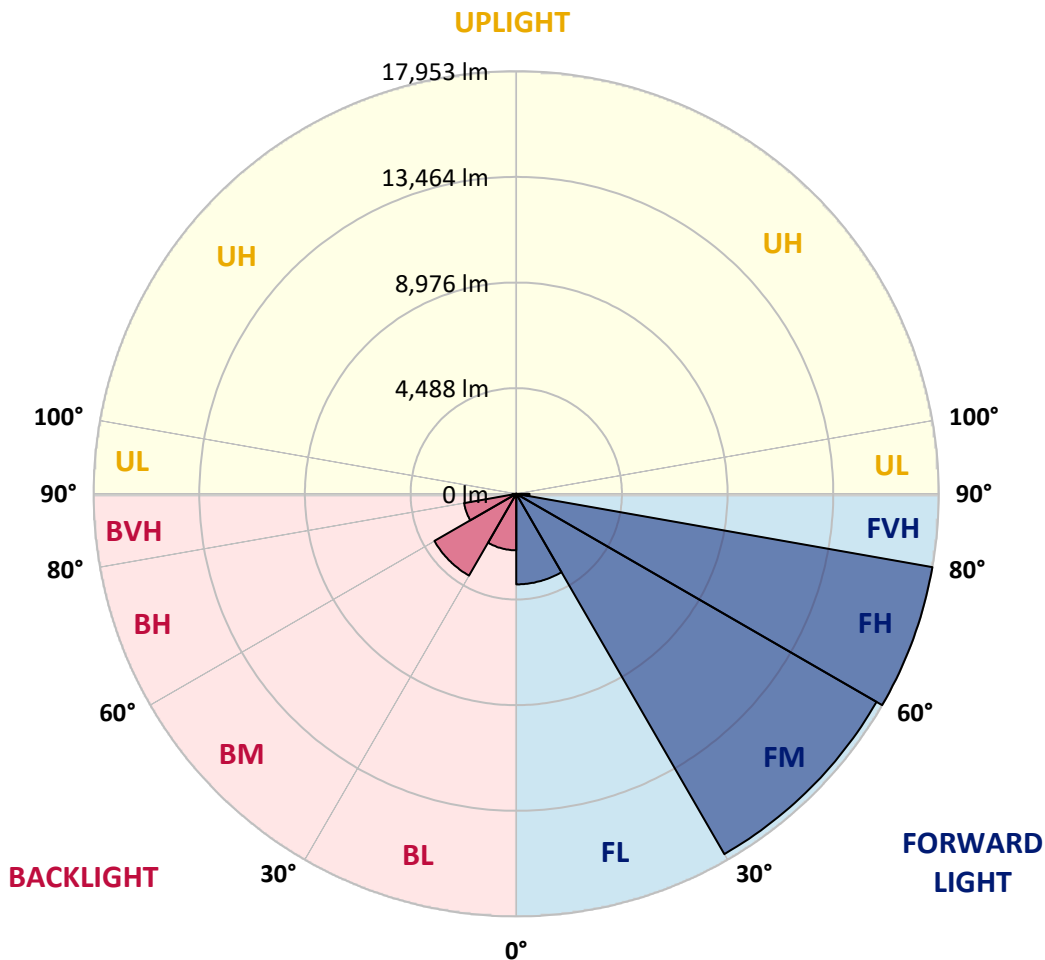


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3846.0	7.9			
FM (30°-60°)	17675.3	36.2			
FH (60°-80°)	17952.6	36.7			G5
FVH (80°-90°)	563.7	1.2			G4/750
BL (0°-30°)	2397.4	4.9	B3/2500		
BM (30°-60°)	4013.4	8.2	B3/5000		
BH (60°-80°)	2252.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	157.5	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1
2.5°	8421.5	8461.1	8471.6	8498.1	8553.5	8598.4	8643.2	8637.9	8701.3	8727.6	8751.4
5°	8046.8	8057.4	8096.9	8149.7	8247.4	8371.4	8492.8	8495.4	8651.1	8775.2	8835.9
7.5°	7772.3	7806.6	7833.0	7888.4	7991.4	8125.9	8318.6	8334.5	8611.6	8857.0	8986.3
10°	7592.9	7632.4	7661.4	7730.1	7833.0	7983.4	8191.9	8220.9	8582.5	8986.3	9213.3
12.5°	7429.2	7468.8	7495.2	7584.9	7719.5	7904.2	8139.1	8173.4	8593.1	9136.7	9461.3
15°	7529.5	7561.2	7550.6	7577.0	7666.7	7877.9	8160.2	8194.5	8632.7	9281.9	9706.8
17.5°	7975.5	8001.9	7914.8	7814.6	7772.3	7928.0	8226.2	8263.2	8711.8	9432.3	9957.5
20°	8632.7	8703.9	8513.9	8289.6	8086.4	8107.5	8363.5	8403.1	8822.7	9582.8	10213.5
22.5°	9487.7	9540.6	9308.3	8938.8	8564.1	8371.4	8569.4	8593.1	8988.9	9778.1	10493.2
25°	10493.2	10524.9	10202.9	9727.9	9186.9	8822.7	8851.7	8893.9	9263.4	9999.7	10741.3
27.5°	11469.7	11570.1	11197.9	10617.3	9904.7	9297.8	9239.6	9266.1	9561.7	10123.8	10912.9
30°	12628.4	12620.5	12227.2	11554.2	10641.1	9815.0	9606.5	9601.3	9722.6	10184.5	11036.9
32.5°	13552.0	13660.3	13274.9	12541.2	11482.9	10350.8	9859.9	9849.3	9846.7	10290.1	11221.7
35°	14602.5	14618.3	14264.6	13525.6	12393.5	11023.7	10213.5	10160.7	10100.1	10517.0	11472.4
37.5°	15541.9	15615.9	15291.2	14462.6	13288.1	11723.1	10699.1	10664.8	10480.0	10910.3	11873.6
40°	16275.6	16331.0	16135.8	15346.7	14169.6	12477.9	11316.7	11253.3	11029.0	11554.2	12409.3
42.5°	16515.8	16629.3	16705.9	16317.9	15183.1	13372.6	12076.8	11997.6	11826.1	12530.7	13026.8
45°	16534.3	16713.8	17117.5	17136.0	16201.8	14444.1	12963.5	12908.1	12894.9	13781.6	13895.2
47.5°	16394.5	16576.5	17254.8	17621.6	17109.6	15526.1	14243.5	14156.4	14164.4	15328.2	14869.0
50°	16056.6	16273.0	17096.4	17933.1	17819.5	16650.5	15594.7	15565.7	15729.4	17093.8	15879.8
52.5°	15420.6	15681.9	16932.8	18128.3	18347.4	17619.0	17130.7	17048.9	17463.3	19009.8	16985.6
55°	13660.3	14053.5	16333.7	18236.6	18848.8	18545.3	18513.7	18661.5	19210.4	21100.0	18202.3
57.5°	12741.8	13037.4	15032.6	18255.0	19482.2	19622.1	20128.8	20165.8	21126.4	23319.6	19577.2
60°	12240.4	12501.6	14320.0	18133.6	20366.3	20954.9	21780.9	21912.9	22997.6	25723.8	21002.4
62.5°	11802.3	12026.6	13892.5	17714.0	21363.9	22931.6	23921.3	23984.6	25122.1	28378.8	22409.0
65°	10770.4	11026.4	13032.1	17294.4	22224.3	25401.8	26761.0	26687.1	27383.9	30669.6	23290.5
67.5°	9379.6	9704.1	11424.9	15845.4	22649.2	28101.7	29959.7	29867.3	29616.6	32171.3	23543.9
70°	7603.4	7777.6	9369.0	13341.0	20952.3	29518.9	32485.3	32387.7	30999.5	32369.2	22345.7
71°	6542.5	6814.3	8157.6	11849.8	19540.3	29086.1	32809.9	32783.5	31002.1	31822.9	21443.1
72.5°	5106.7	5273.0	6460.6	9181.6	16608.2	26626.4	32007.6	32108.0	30329.2	30305.4	19582.5
75°	3230.4	3304.2	4053.7	5405.0	9113.0	18856.7	27323.2	27595.0	26929.9	24805.4	14562.8
77.5°	1876.4	1971.5	2428.1	3185.5	3937.6	10234.6	19550.8	19846.4	18711.6	13657.6	5961.8
80°	1092.6	1198.2	1599.3	1850.0	1807.8	3797.7	9954.9	10458.9	8102.2	3449.4	1673.3
82.5°	607.0	678.3	1124.2	1126.9	963.3	1240.4	3132.6	3277.8	2311.9	1390.8	683.6
85°	440.8	498.8	725.8	657.2	461.9	533.1	1089.9	1142.8	934.3	585.9	221.7
87.5°	155.7	221.7	398.5	316.7	126.7	110.8	314.0	256.0	237.5	163.7	50.1
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°	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1	8717.1
2.5°	8764.6	8769.9	8743.5	8696.0	8648.5	8587.8	8519.2	8466.4	8442.6	8440.0	8437.3
5°	8859.6	8872.8	8772.6	8624.8	8461.1	8260.6	8089.0	7893.7	7843.6	7764.4	7788.2
7.5°	9012.7	9004.8	8806.9	8492.8	8110.1	7685.2	7326.3	7117.8	6901.4	6840.7	6843.3
10°	9231.7	9181.6	8806.9	8223.6	7584.9	6954.1	6452.7	6136.0	5964.5	5822.0	5769.2
12.5°	9464.0	9337.3	8722.4	7846.2	6909.3	6136.0	5597.6	5170.1	5059.3	4943.1	4945.8
15°	9685.7	9474.5	8556.2	7315.7	6180.9	5262.5	4740.0	4484.0	4449.6	4462.8	4460.2
17.5°	9886.3	9572.2	8302.8	6724.6	5331.1	4513.0	4235.9	4254.3	4346.7	4412.6	4420.5
20°	10089.5	9630.3	7925.4	5932.8	4528.8	4059.0	4069.6	4214.8	4354.6	4444.3	4457.6
22.5°	10282.2	9656.7	7482.0	5167.4	3948.2	3866.3	4022.1	4177.8	4315.0	4402.1	4415.3
25°	10408.8	9596.0	6853.9	4367.8	3663.1	3797.7	3961.4	4093.3	4209.5	4299.2	4320.3
27.5°	10443.1	9400.7	6075.3	3721.2	3531.2	3731.8	3882.2	3979.9	4069.6	4154.0	4169.8
30°	10424.6	9113.0	5220.3	3341.2	3454.7	3655.2	3771.4	3842.6	3950.8	4016.8	4030.0
32.5°	10395.6	8777.9	4328.2	3137.9	3391.3	3584.0	3652.5	3716.0	3713.3	3686.9	3705.4
35°	10406.2	8376.7	3605.1	3016.6	3335.9	3531.2	3589.2	3510.1	3283.1	3272.6	3262.0
37.5°	10461.6	7980.8	3079.9	2932.1	3306.9	3523.3	3554.9	3190.8	2990.2	2897.7	2874.0
40°	10604.1	7519.0	2734.2	2868.7	3304.2	3584.0	3399.2	3029.8	2644.4	2465.0	2451.8
42.5°	10794.2	7065.0	2523.0	2829.2	3335.9	3676.3	3335.9	2802.8	2383.1	2277.6	2261.8
45°	11076.6	6545.1	2406.9	2810.7	3383.4	3710.7	3314.8	2636.5	2277.6	2193.2	2193.2
47.5°	11395.9	6049.0	2343.5	2797.5	3444.1	3686.9	3127.4	2583.7	2227.5	2238.0	2288.1
50°	11712.5	5618.7	2296.1	2768.5	3496.9	3673.7	3050.9	2581.1	2240.7	2375.2	2465.0
52.5°	12079.4	5315.3	2238.0	2721.0	3496.9	3589.2	3027.1	2633.8	2277.6	2317.2	2356.7
55°	12522.7	5220.3	2164.1	2618.0	3433.6	3378.1	3013.9	2710.4	2304.0	2211.6	2227.5
57.5°	13108.7	5373.3	2092.8	2488.7	3288.4	3159.0	3008.6	2731.5	2243.3	2166.8	2150.9
60°	13789.5	5676.8	2071.7	2356.7	3090.4	2971.7	2977.0	2670.8	2158.8	2079.6	2092.8
62.5°	14267.2	5858.9	2058.5	2256.5	2874.0	2765.8	2900.4	2596.9	2121.8	2053.3	2066.4
65°	14267.2	5637.2	1937.2	2103.4	2594.3	2517.8	2808.1	2504.6	2074.4	1995.2	1982.0
67.5°	13726.2	4990.7	1752.4	1873.8	2285.5	2235.4	2678.8	2393.7	2003.1	1942.5	1910.8
70°	12316.9	3784.6	1520.2	1604.6	1894.9	1939.8	2512.5	2243.3	1884.3	1810.4	1763.0
71°	11696.7	3296.3	1422.5	1467.4	1744.5	1810.4	2433.3	2180.0	1831.6	1726.0	1641.5
72.5°	10501.2	2776.4	1274.7	1293.2	1491.1	1609.8	2267.0	2058.5	1731.3	1580.8	1485.9
75°	7978.1	2026.9	1026.6	1016.1	1103.1	1277.3	1918.7	1834.2	1517.5	1314.3	1258.9
77.5°	3446.8	1103.1	768.0	775.9	749.5	968.6	1509.6	1575.6	1301.1	1068.8	1018.7
80°	1045.1	636.0	525.2	535.7	501.4	649.3	1063.6	1235.1	1045.1	831.3	762.7
82.5°	535.7	380.0	358.9	353.6	319.3	366.8	644.0	844.5	746.9	519.9	459.2
85°	232.3	203.2	176.9	171.6	150.5	132.0	229.6	422.3	395.9	290.3	277.1
87.5°	58.0	52.8	34.3	31.7	18.5	2.6	0.0	0.0	0.0	0.0	0.0
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)