

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: P453290

Luminaire Tested: **GALN-SA4B-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22460 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

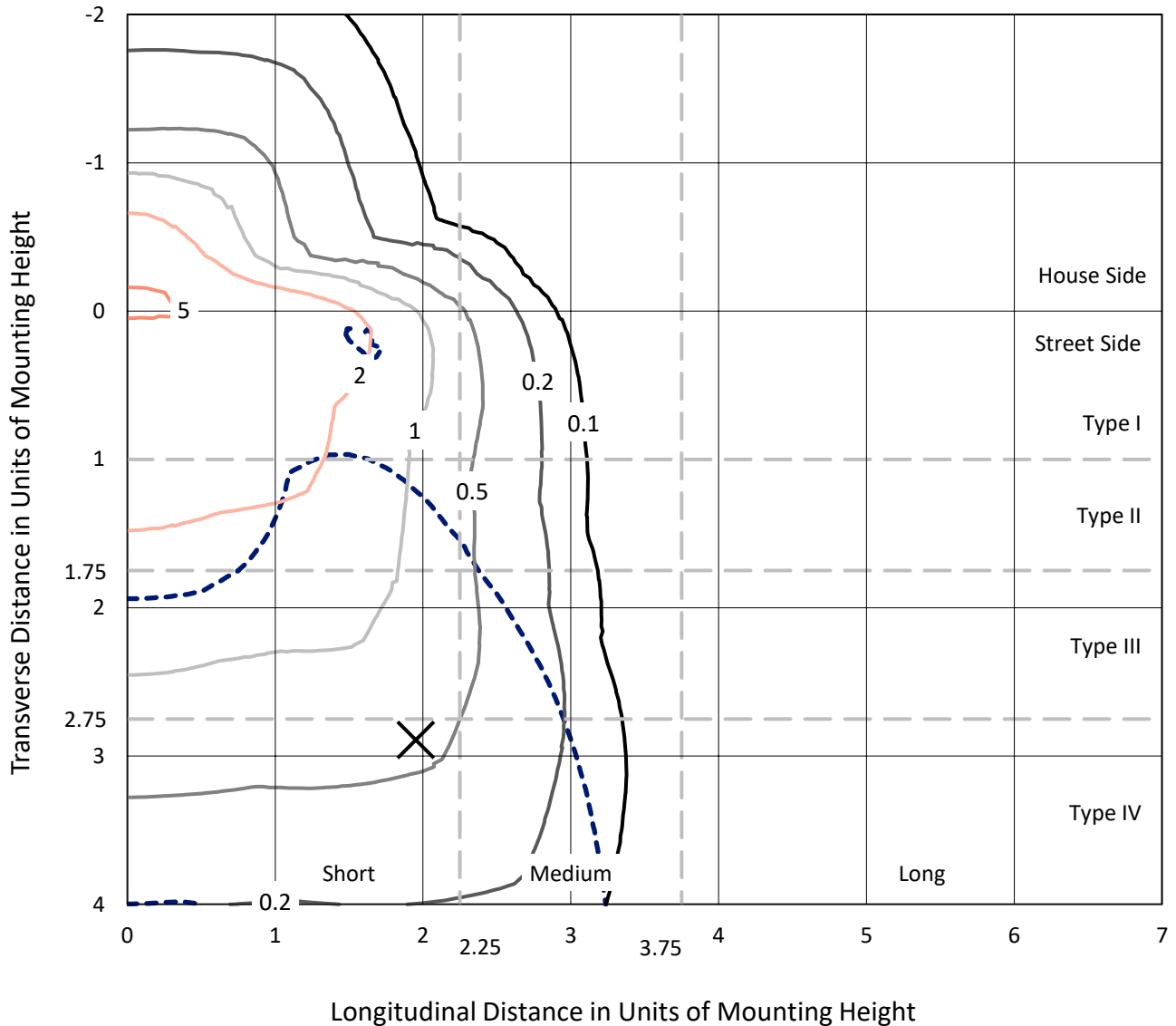
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

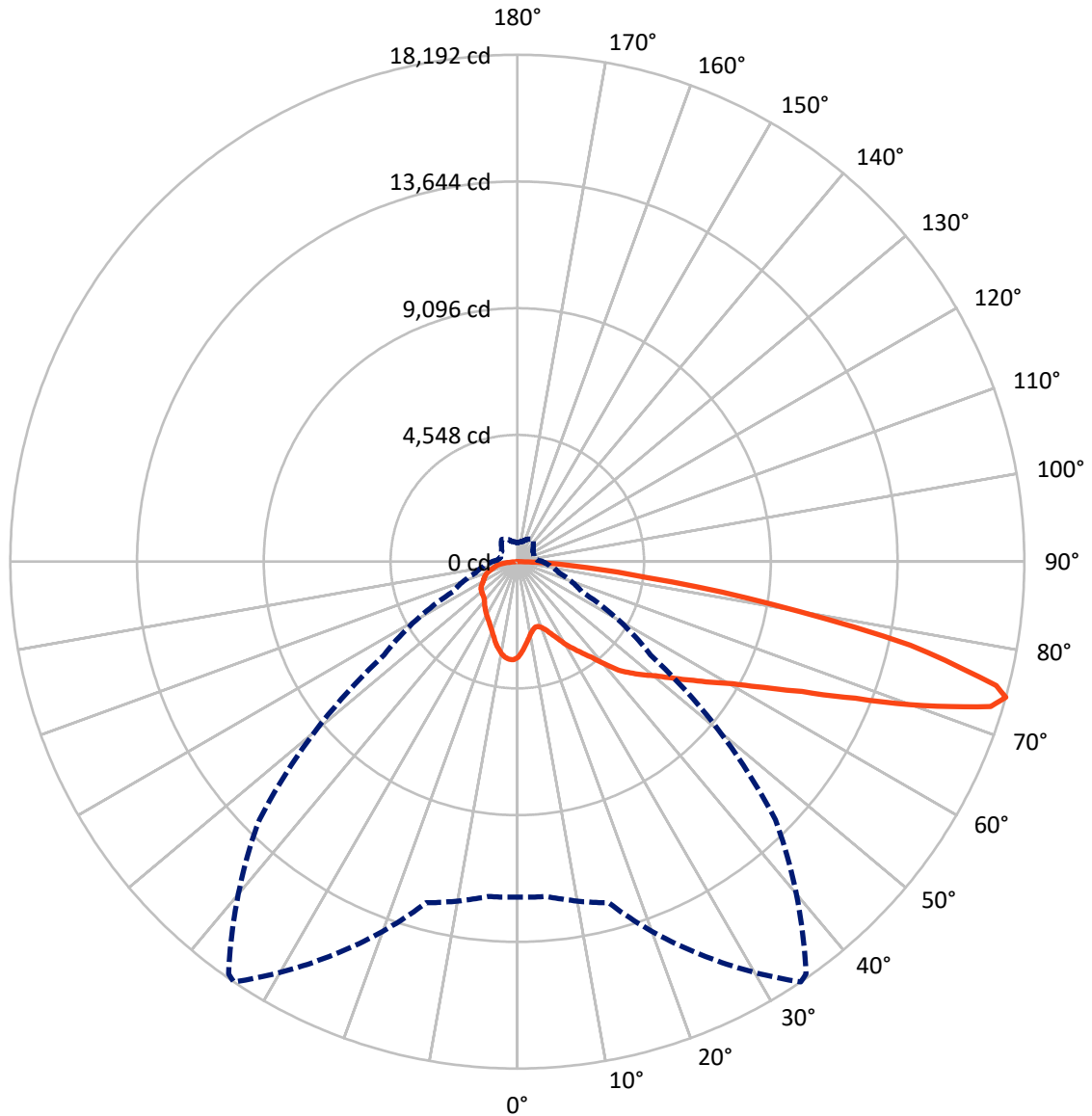
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4779.6	0.0	4779.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	17680.4	0.0	17680.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	22460.0	0.0	22460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	1.4
10°-20°	853.7	3.8
20°-30°	1407.6	6.3
30°-40°	2108.4	9.4
40°-50°	3065.0	13.6
50°-60°	4281.1	19.1
60°-70°	5359.7	23.9
70°-80°	4432.1	19.7
80°-90°	640.4	2.9
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°	22460.0	100.0
0°-180°	22460.0	100.0

Coefficient of Utilization



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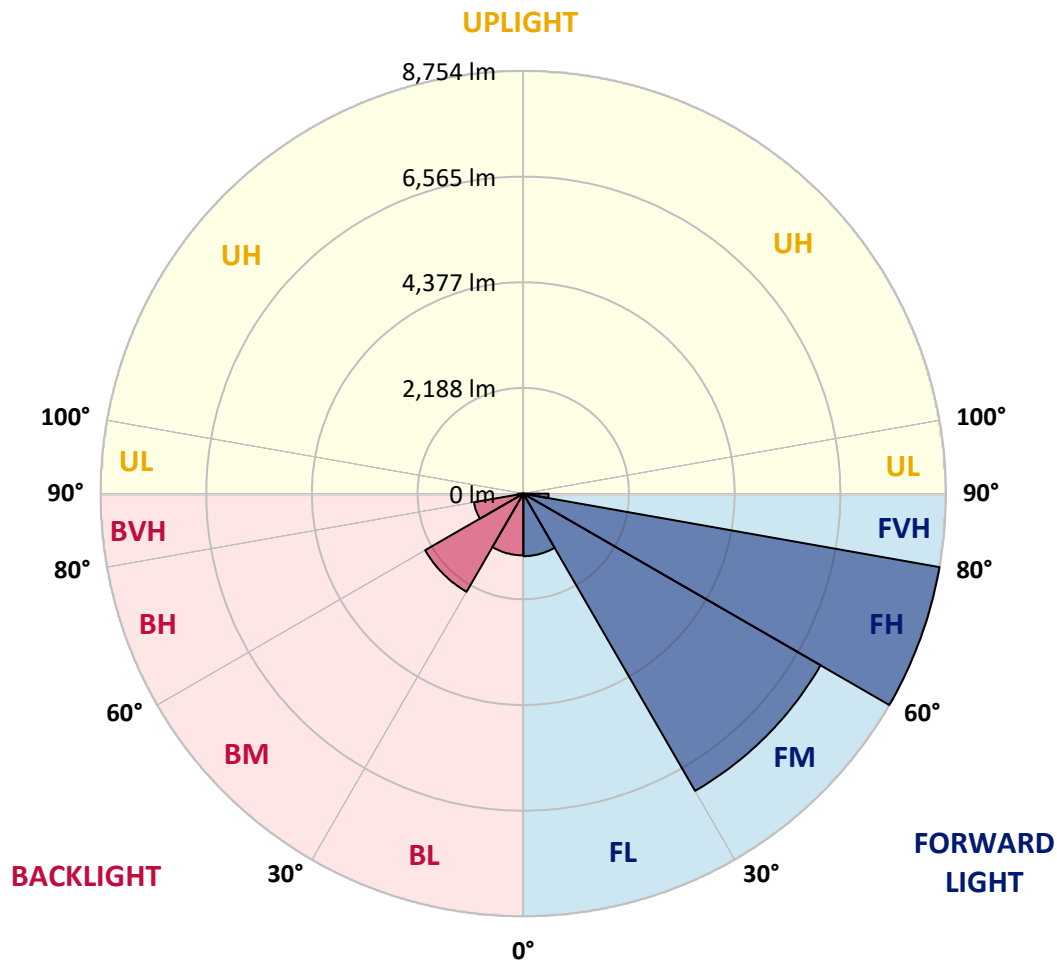
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.7	5.8			
FM	(30°-60°)	7107.3	31.6			
FH	(60°-80°)	8753.7	39.0			G4/12000
FVH	(80°-90°)	524.6	2.3			G4/750
BL	(0°-30°)	1278.5	5.7	B3/2500		
BM	(30°-60°)	2347.3	10.5	B2/2500		
BH	(60°-80°)	1038.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	115.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
2.5°	3169.1	3185.3	3194.0	3225.1	3232.6	3242.6	3268.7	3303.5	3348.3	3388.1	3423.0
5°	2905.4	2930.2	2945.2	2972.6	3026.1	3031.0	3100.7	3180.3	3271.2	3355.8	3425.5
7.5°	2655.3	2682.6	2695.1	2744.9	2815.8	2827.0	2929.0	3054.7	3206.5	3334.6	3441.6
10°	2467.4	2481.1	2508.4	2545.8	2630.4	2637.8	2771.0	2939.0	3135.6	3324.7	3469.0
12.5°	2365.4	2372.8	2379.0	2418.9	2502.2	2513.4	2652.8	2843.1	3079.6	3332.1	3513.8
15°	2380.3	2382.8	2355.4	2362.9	2430.1	2446.2	2584.3	2779.7	3044.7	3350.8	3581.0
17.5°	2506.0	2497.2	2430.1	2395.2	2442.5	2450.0	2570.7	2754.8	3028.5	3385.6	3650.7
20°	2703.8	2691.3	2575.6	2498.5	2525.9	2532.1	2615.4	2773.5	3044.7	3442.9	3758.9
22.5°	2950.2	2945.2	2769.7	2676.4	2675.2	2675.2	2718.7	2840.7	3093.2	3521.3	3872.2
25°	3294.8	3268.7	3039.7	2919.0	2885.5	2883.0	2878.0	2951.4	3155.5	3604.6	4006.5
27.5°	3648.2	3603.4	3399.3	3213.9	3141.8	3133.1	3100.7	3108.2	3235.1	3699.2	4159.6
30°	3965.5	3936.9	3745.2	3539.9	3454.1	3434.2	3344.6	3303.5	3368.2	3869.7	4403.5
32.5°	4208.1	4190.7	4041.4	3854.7	3727.8	3724.1	3593.4	3559.8	3576.0	4076.2	4682.2
35°	4404.7	4410.9	4335.0	4173.3	4027.7	4006.5	3919.4	3877.1	3829.9	4374.8	5033.1
37.5°	4673.5	4687.2	4682.2	4542.8	4364.9	4369.9	4350.0	4280.3	4154.6	4708.3	5422.5
40°	4969.6	4979.6	4978.3	4924.8	4831.5	4836.5	4829.0	4749.4	4561.5	5132.6	5855.5
42.5°	5379.0	5331.7	5208.5	5262.0	5316.7	5340.4	5391.4	5315.5	5057.9	5585.5	6262.4
45°	5836.9	5747.3	5468.6	5493.4	5696.3	5741.0	6022.2	5917.7	5596.7	6105.6	6741.4
47.5°	6125.5	6037.2	5802.0	5797.0	6065.8	6109.3	6607.1	6568.5	6087.0	6666.8	7326.2
50°	6383.1	6370.6	6105.6	6169.1	6431.6	6496.3	7244.1	7208.0	6575.9	7328.7	7963.3
52.5°	6765.1	6664.3	6452.8	6583.4	6930.6	7015.2	7876.2	7770.4	7025.1	7913.5	8581.7
55°	6936.8	6913.1	6900.7	7013.9	7490.5	7551.5	8490.9	8248.2	7408.4	8408.8	9052.0
57.5°	7395.9	7352.4	7475.6	7552.7	8149.9	8243.3	9132.9	8747.2	7744.3	8801.9	9281.0
60°	7990.7	7967.0	8080.3	8219.6	8886.5	9028.4	9864.5	9172.7	8014.3	8999.8	9155.3
62.5°	8879.1	8876.6	8855.4	9154.1	9930.5	10061.1	10704.4	9587.1	8056.6	8851.7	8505.8
65°	10153.2	10108.4	9924.3	10250.3	11229.5	11382.5	11579.1	9818.5	7801.5	8091.5	7162.0
67.5°	11485.8	11483.3	11334.0	11757.1	13094.7	13252.7	12672.9	9767.5	7093.6	6554.8	5086.6
70°	12590.7	12537.2	12727.6	13854.9	15477.4	15660.3	13629.7	9166.5	5650.2	4328.8	3022.3
72.5°	12855.8	12858.2	13253.9	15472.5	17765.6	17794.3	13974.4	7429.5	3781.3	2387.7	1511.8
74°	12039.5	12060.7	12674.1	15553.3	18192.4	18063.0	13093.4	5839.3	2557.0	1559.1	1090.0
75°	10989.4	10856.2	11743.4	15014.6	17749.5	17610.1	12061.9	4685.9	1951.0	1245.5	954.4
77.5°	5875.4	6011.1	7379.7	11204.6	14419.8	14259.3	8178.6	2247.1	1053.9	867.3	686.8
80°	2091.6	2306.9	3242.6	5863.0	9244.9	9294.7	3903.3	1030.3	741.6	639.6	485.3
82.5°	853.6	877.2	1392.3	2601.8	4694.6	4739.4	1593.9	612.2	530.1	440.5	289.9
85°	333.5	343.4	615.9	1169.6	2003.3	2133.9	551.2	323.5	326.0	252.6	148.1
87.5°	112.0	126.9	252.6	389.5	680.6	666.9	160.5	95.8	117.0	109.5	46.0
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°	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2	3429.2
2.5°	3440.4	3464.0	3480.2	3497.6	3513.8	3518.8	3515.1	3526.3	3527.5	3528.7	3530.0
5°	3460.3	3492.7	3523.8	3541.2	3548.6	3542.4	3521.3	3510.1	3500.1	3492.7	3495.1
7.5°	3487.7	3533.7	3562.3	3569.8	3549.9	3521.3	3469.0	3428.0	3401.8	3384.4	3383.2
10°	3530.0	3574.8	3598.4	3577.3	3522.5	3452.8	3370.7	3293.6	3235.1	3217.7	3216.4
12.5°	3583.5	3634.5	3633.3	3571.0	3475.2	3350.8	3217.7	3128.1	3048.5	3008.6	3024.8
15°	3653.2	3691.7	3655.7	3543.7	3391.9	3221.4	3057.2	2935.2	2845.6	2803.3	2805.8
17.5°	3734.0	3767.6	3671.8	3495.1	3274.9	3055.9	2865.5	2749.8	2678.9	2647.8	2645.3
20°	3834.8	3844.8	3671.8	3410.5	3124.4	2863.1	2681.4	2600.5	2560.7	2544.5	2549.5
22.5°	3943.1	3923.2	3651.9	3291.1	2926.5	2661.5	2539.5	2503.5	2483.6	2481.1	2483.6
25°	4065.0	4009.0	3610.9	3129.3	2720.0	2487.3	2416.4	2422.6	2426.3	2426.3	2435.0
27.5°	4214.3	4102.3	3542.4	2925.3	2478.6	2325.5	2305.6	2349.2	2369.1	2372.8	2379.0
30°	4410.9	4204.4	3429.2	2670.2	2273.3	2180.0	2214.8	2273.3	2295.7	2309.4	2306.9
32.5°	4644.8	4316.4	3276.2	2415.1	2107.8	2077.9	2120.2	2180.0	2204.8	2212.3	2202.4
35°	4919.8	4443.3	3074.6	2176.2	1963.5	1980.9	2030.6	2049.3	2071.7	2071.7	2076.7
37.5°	5216.0	4545.3	2828.2	1957.2	1851.5	1914.9	1951.0	1933.6	1923.6	1911.2	1917.4
40°	5517.1	4621.2	2508.4	1740.7	1739.5	1846.5	1856.4	1806.7	1766.9	1754.4	1748.2
42.5°	5779.6	4668.5	2219.8	1572.8	1633.7	1779.3	1786.8	1707.1	1643.7	1606.3	1593.9
45°	6089.4	4723.2	1937.3	1433.4	1535.4	1725.8	1744.5	1637.5	1544.1	1465.7	1445.8
47.5°	6513.7	4847.7	1714.6	1325.1	1464.5	1692.2	1718.3	1580.2	1457.0	1355.0	1338.8
50°	6992.8	5018.1	1541.6	1251.7	1409.8	1662.3	1694.7	1521.7	1376.2	1262.9	1250.5
52.5°	7432.0	5110.2	1392.3	1185.8	1356.3	1607.6	1663.6	1479.4	1296.5	1170.9	1159.7
55°	7672.1	4960.9	1245.5	1121.1	1282.8	1536.7	1620.0	1421.0	1219.4	1122.3	1106.2
57.5°	7704.5	4652.3	1112.4	1051.4	1205.7	1449.6	1539.2	1350.0	1169.6	1088.7	1075.0
60°	7454.4	4191.9	1009.1	994.2	1127.3	1351.3	1448.3	1287.8	1118.6	1051.4	1037.7
62.5°	6832.3	3691.7	936.9	941.9	1047.7	1248.0	1381.1	1228.1	1070.1	1010.3	997.9
65°	5762.2	3047.2	867.3	888.4	976.7	1167.1	1320.2	1178.3	1021.5	979.2	968.0
67.5°	4002.8	2199.9	810.0	832.4	909.6	1085.0	1249.2	1124.8	966.8	944.4	927.0
70°	2216.0	1353.8	742.8	769.0	839.9	992.9	1169.6	1043.9	887.2	877.2	852.3
72.5°	1164.6	862.3	666.9	695.5	745.3	874.7	1047.7	955.6	808.8	766.5	734.1
74°	909.6	706.7	615.9	645.8	679.4	805.0	975.5	892.1	752.8	703.0	678.1
75°	792.6	629.6	572.4	610.9	640.8	757.8	919.5	847.3	721.7	674.4	652.0
77.5°	559.9	471.6	467.8	513.9	530.1	664.4	828.7	771.4	643.3	593.5	572.4
80°	393.2	353.4	370.8	399.4	421.8	587.3	769.0	666.9	527.6	469.1	461.6
82.5°	256.3	231.4	265.0	291.2	298.6	433.0	620.9	506.4	384.5	312.3	289.9
85°	118.2	115.7	151.8	148.1	146.8	211.5	368.3	296.1	221.5	165.5	155.5
87.5°	29.9	28.6	37.3	31.1	37.3	32.4	33.6	8.7	1.2	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)