

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: P647410

Luminaire Tested: **GALN-SA4D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20917.8 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

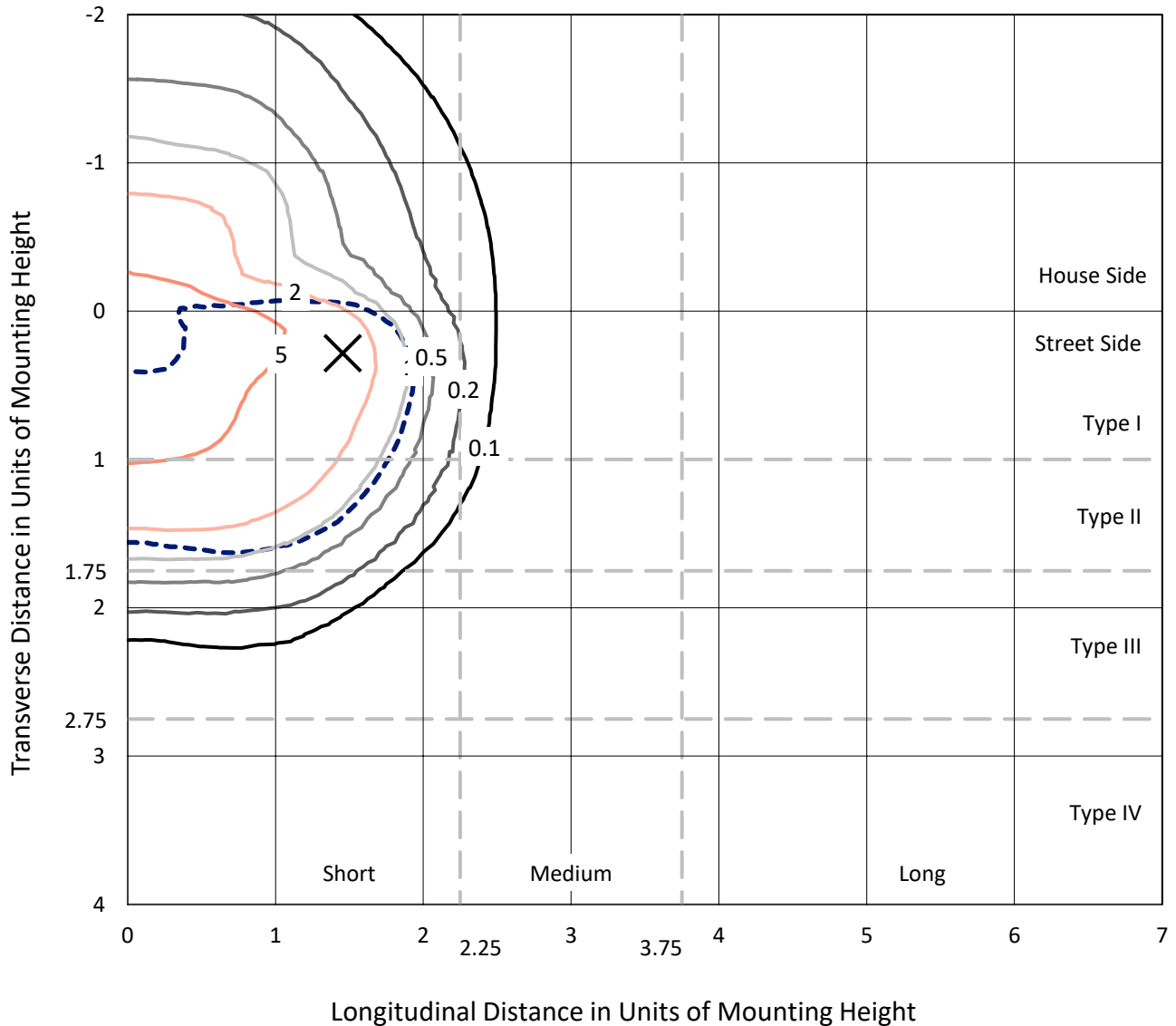
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

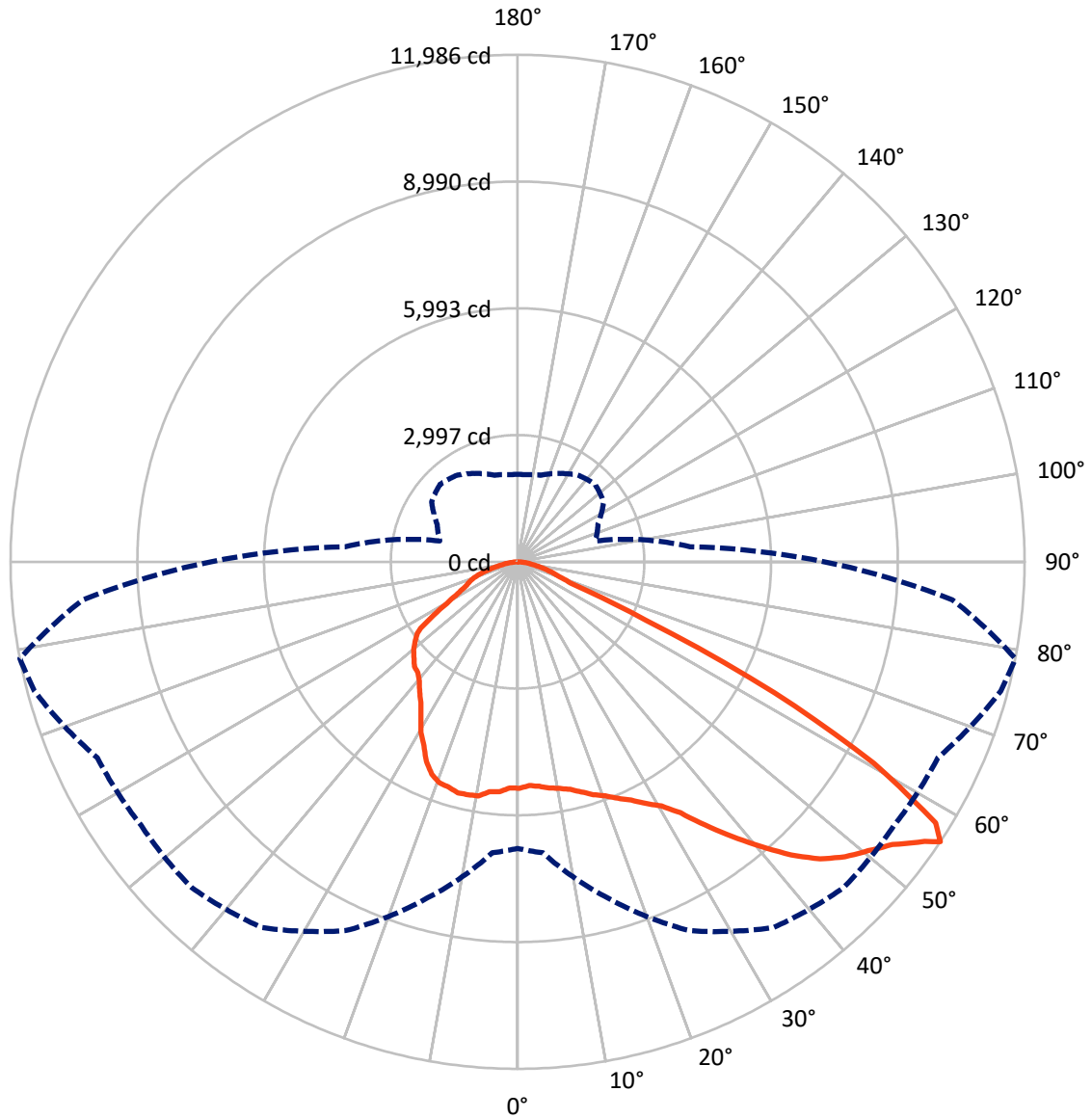
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6177.5	0.0	6177.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	14740.4	0.0	14740.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	20917.8	0.0	20917.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.6	2.3
10°-20°	1331.7	6.4
20°-30°	2278.3	10.9
30°-40°	3491.7	16.7
40°-50°	4719.1	22.6
50°-60°	5420.0	25.9
60°-70°	2470.6	11.8
70°-80°	609.1	2.9
80°-90°	110.7	0.5
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°	20917.8	100.0
0°-180°	20917.8	100.0

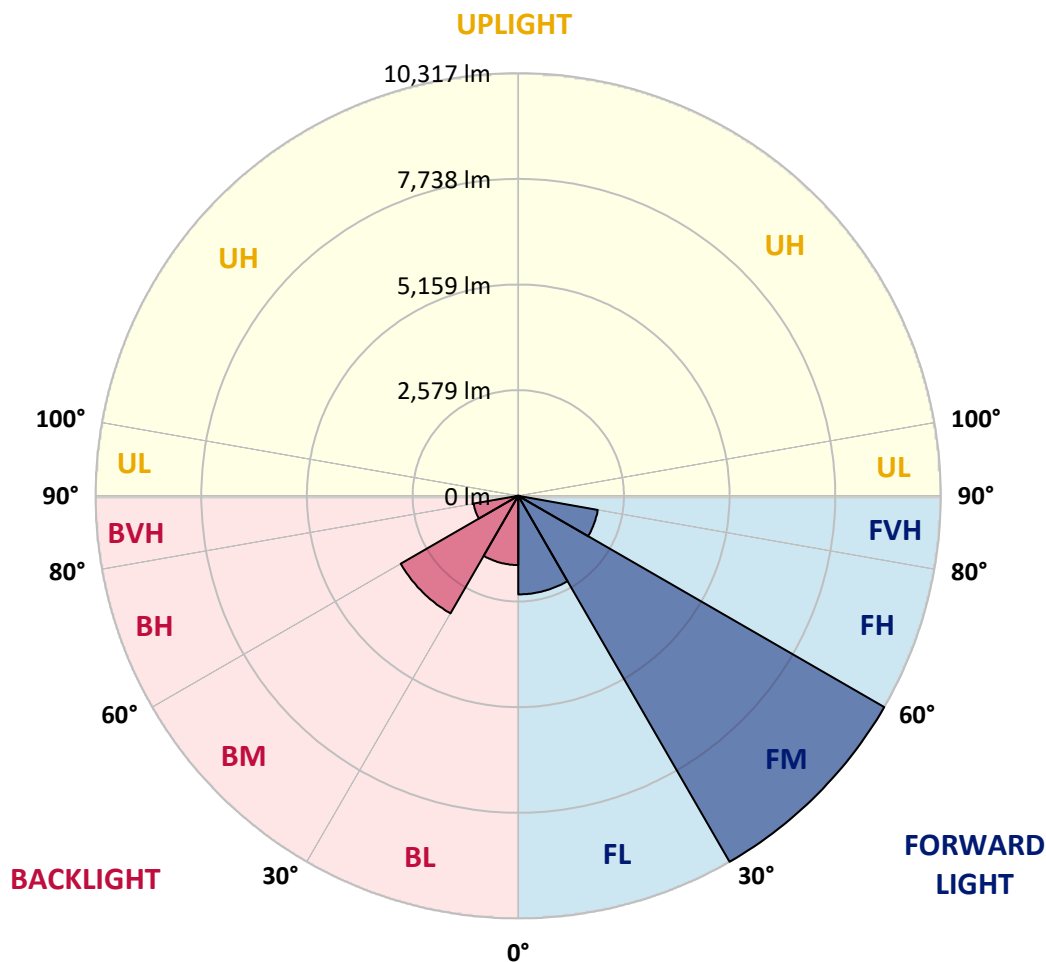


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2406.8	11.5			
FM (30°-60°)	10317.3	49.3			
FH (60°-80°)	1972.1	9.4			G2/5000
FVH (80°-90°)	44.2	0.2			G1/100
BL (0°-30°)	1689.8	8.1	B3/2500		
BM (30°-60°)	3313.5	15.8	B3/5000		
BH (60°-80°)	1107.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	66.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0
2.5°	5091.5	5078.5	5109.7	5133.2	5161.8	5198.3	5216.6	5227.0	5318.1	5294.7	5365.0
5°	4982.1	4948.2	4971.7	4989.8	5039.4	5083.6	5133.2	5211.3	5294.7	5331.2	5417.2
7.5°	4885.6	4867.4	4862.2	4875.2	4942.9	5000.3	5086.3	5200.9	5336.4	5396.4	5445.8
10°	4726.7	4700.7	4739.7	4825.7	4844.0	4963.8	5062.8	5227.0	5344.2	5448.4	5594.4
12.5°	4656.3	4630.3	4638.1	4687.6	4815.3	4929.9	5047.2	5232.2	5479.7	5521.4	5716.8
15°	4768.4	4742.3	4750.1	4737.1	4859.6	4919.5	5104.5	5336.4	5573.6	5643.9	5852.3
17.5°	5023.7	5026.3	4992.5	4963.8	4935.2	5062.8	5190.5	5398.9	5610.0	5787.2	5943.5
20°	5511.0	5425.0	5357.3	5195.7	5151.4	5206.2	5367.7	5568.3	5758.5	5904.4	6081.6
22.5°	5886.2	5894.0	5797.6	5531.8	5435.4	5458.9	5597.0	5761.2	5969.6	6073.8	6277.1
25°	6430.8	6376.0	6271.8	6060.8	5844.5	5862.8	5964.3	6112.9	6170.2	6243.2	6464.7
27.5°	6928.5	6944.1	6738.3	6540.2	6271.8	6219.8	6402.1	6428.2	6331.8	6469.9	6545.4
30°	7434.0	7421.0	7285.4	7053.6	6790.4	6800.8	6881.6	6753.9	6621.0	6696.6	6748.7
32.5°	7957.7	7809.2	7804.0	7595.6	7394.9	7298.5	7199.5	7262.0	7056.2	7071.8	7022.3
35°	8377.2	8398.1	8278.2	8129.7	8030.7	7861.3	7590.3	7702.4	7663.3	7645.1	7431.4
37.5°	8682.1	8601.3	8661.2	8611.7	8517.9	8306.8	8025.4	8132.3	8150.6	8239.1	7991.6
40°	8932.2	8898.4	9057.3	9083.3	9018.2	8562.3	8056.8	8374.7	8648.2	8841.0	8546.6
42.5°	9052.1	9125.1	9291.9	9492.5	9346.5	8859.3	8218.3	8559.6	9169.3	9474.2	9072.9
45°	9213.6	9119.8	9367.4	9734.8	9737.4	9109.4	8374.7	8809.8	9575.9	10018.8	9432.6
47.5°	9049.5	9096.4	9351.8	9818.2	9938.0	9372.6	8796.8	9164.2	10024.0	10417.5	9766.0
50°	8682.1	8775.9	9242.3	9727.0	10089.2	9651.4	9281.4	9547.2	10438.3	10738.0	9820.8
52.5°	8299.1	8351.2	9080.8	9797.3	10156.9	10011.0	9930.2	10076.1	10943.8	11100.1	9888.5
55°	7256.8	7504.4	8546.6	9766.0	10487.8	10659.8	10597.3	10811.0	11517.1	11673.4	10258.6
56°	6774.8	6905.0	8226.1	9620.2	10553.0	10896.9	10865.6	10962.1	11821.9	11986.1	10315.9
57.5°	5883.6	5894.0	7014.4	8974.0	10308.0	10967.2	10936.0	11011.6	11762.0	11649.9	9812.9
60°	3681.8	3843.4	4773.6	6902.5	8765.5	10175.2	10352.4	9745.2	9917.2	9680.1	7634.6
62.5°	1907.4	1883.9	2501.5	4036.2	5818.5	7285.4	7449.6	7421.0	7155.2	6808.7	4987.2
65°	951.0	956.3	1308.1	1998.5	2980.9	3814.7	4273.3	4322.8	3616.7	3327.4	2365.9
67.5°	690.5	716.5	940.6	1222.0	1404.5	1571.2	1925.6	1889.1	1430.5	1360.1	1261.2
70°	536.7	560.2	763.4	932.9	846.8	846.8	922.4	953.7	1018.8	1047.5	1081.3
72.5°	390.9	409.1	583.6	643.6	555.0	596.7	690.5	763.4	831.2	841.6	880.7
75°	268.4	284.0	383.0	354.4	333.6	411.7	505.5	573.2	622.7	648.8	672.3
77.5°	174.6	179.8	218.8	185.0	213.7	265.8	328.3	385.6	435.1	456.0	461.2
80°	78.1	86.0	93.8	117.3	148.5	190.2	234.5	281.4	312.7	320.5	336.1
82.5°	44.3	44.3	57.3	83.4	109.5	138.1	169.4	203.3	239.8	247.5	244.9
85°	23.5	23.5	33.9	49.5	67.7	80.8	78.1	80.8	86.0	99.0	96.4
87.5°	7.8	7.8	10.4	10.4	13.0	15.7	13.0	18.2	23.5	23.5	23.5
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°	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0	5352.0
2.5°	5344.2	5367.7	5336.4	5404.2	5404.2	5391.1	5326.0	5346.9	5362.5	5362.5	5375.5
5°	5445.8	5438.0	5458.9	5378.1	5328.6	5310.4	5203.5	5151.4	5107.1	5104.5	5065.5
7.5°	5503.2	5482.3	5474.5	5414.6	5195.7	5062.8	4833.5	4700.7	4672.0	4570.4	4609.4
10°	5594.4	5633.5	5594.4	5268.7	4963.8	4658.9	4434.8	4229.0	4148.3	4083.1	4044.0
12.5°	5782.0	5763.7	5537.1	5096.7	4669.3	4307.2	3973.6	3757.4	3676.6	3619.3	3614.1
15°	5940.9	5849.7	5503.2	4825.7	4210.7	3825.1	3551.5	3397.8	3361.3	3366.5	3390.0
17.5°	5995.7	5933.1	5326.0	4544.3	3869.4	3416.1	3288.4	3264.9	3298.8	3337.9	3348.3
20°	6081.6	5982.6	5253.1	4161.3	3447.3	3160.7	3152.8	3236.2	3298.8	3356.1	3363.9
22.5°	6261.4	6011.2	5015.9	3799.0	3158.1	3085.1	3160.7	3231.0	3327.4	3374.3	3332.7
25°	6313.6	5948.8	4682.4	3363.9	2975.7	3038.2	3119.0	3215.4	3283.1	3309.2	3327.4
27.5°	6357.8	5852.3	4231.6	3074.7	2918.3	3035.6	3119.0	3199.7	3236.2	3259.7	3280.5
30°	6482.9	5823.6	3840.8	2881.9	2881.9	2983.5	3090.3	3111.2	3160.7	3189.3	3225.8
32.5°	6545.4	5625.6	3439.5	2759.4	2845.4	3009.5	3017.4	3056.4	3059.0	3082.5	3043.4
35°	6709.6	5484.9	3066.9	2670.8	2861.0	2983.5	3022.6	2999.1	2871.4	2808.9	2821.9
37.5°	6829.5	5414.6	2798.5	2660.4	2863.7	3012.1	3033.0	2855.8	2723.0	2618.7	2644.7
40°	7152.5	5240.0	2595.3	2642.2	2887.1	3043.4	2986.1	2793.3	2553.5	2446.7	2428.5
42.5°	7400.1	5114.9	2467.5	2621.3	2905.3	3087.7	2962.6	2668.2	2423.3	2324.3	2350.3
45°	7686.7	5086.3	2399.8	2626.5	2936.6	3111.2	2934.0	2571.8	2311.3	2272.1	2264.4
47.5°	7788.3	4880.4	2326.8	2582.3	2928.8	3103.3	2837.6	2498.9	2269.5	2274.8	2295.6
50°	7619.0	4669.3	2272.1	2491.0	2876.7	3033.0	2686.5	2402.4	2246.1	2311.3	2347.7
52.5°	7402.7	4453.1	2160.1	2368.6	2769.9	2923.6	2616.1	2397.2	2222.6	2201.8	2209.6
55°	7467.9	4275.9	2003.8	2201.8	2597.8	2720.3	2537.9	2347.7	2165.3	2087.2	2113.2
56°	7256.8	4093.5	1902.1	2097.6	2480.6	2590.0	2498.9	2303.4	2118.4	2066.3	2066.3
57.5°	6660.1	3481.1	1769.3	1930.8	2233.0	2363.3	2423.3	2277.4	2066.3	1975.1	1977.7
60°	4911.7	2475.4	1586.8	1701.5	1850.0	1954.3	2233.0	2204.4	1936.0	1873.5	1850.0
62.5°	3027.8	1808.3	1456.5	1500.9	1576.4	1662.4	1949.0	1995.9	1797.9	1730.2	1714.5
65°	1696.3	1383.6	1357.6	1375.8	1412.3	1456.5	1618.1	1722.4	1586.8	1482.6	1477.4
67.5°	1240.3	1237.7	1258.5	1274.2	1289.8	1289.8	1328.9	1370.6	1352.3	1268.9	1261.2
70°	1102.2	1110.0	1125.6	1128.2	1133.5	1115.2	1084.0	1070.9	1091.8	1039.7	1029.3
72.5°	909.4	935.5	953.7	956.3	927.6	904.1	862.5	818.2	802.6	792.2	789.5
75°	698.4	716.5	724.4	721.8	711.4	677.5	628.0	583.6	555.0	523.7	539.4
77.5°	471.6	497.7	510.7	510.7	495.1	442.9	419.5	385.6	357.0	323.1	328.3
80°	330.9	349.1	370.0	367.4	341.3	315.3	281.4	250.2	226.7	200.6	198.0
82.5°	247.5	258.0	268.4	263.2	244.9	218.8	195.4	166.8	140.7	122.5	122.5
85°	88.6	96.4	117.3	122.5	132.9	132.9	112.0	93.8	75.6	62.6	62.6
87.5°	26.1	26.1	28.7	28.7	26.1	28.7	23.5	26.1	28.7	18.2	18.2
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)