

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: P522831

Luminaire Tested: **GALN-SA7A-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29030 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

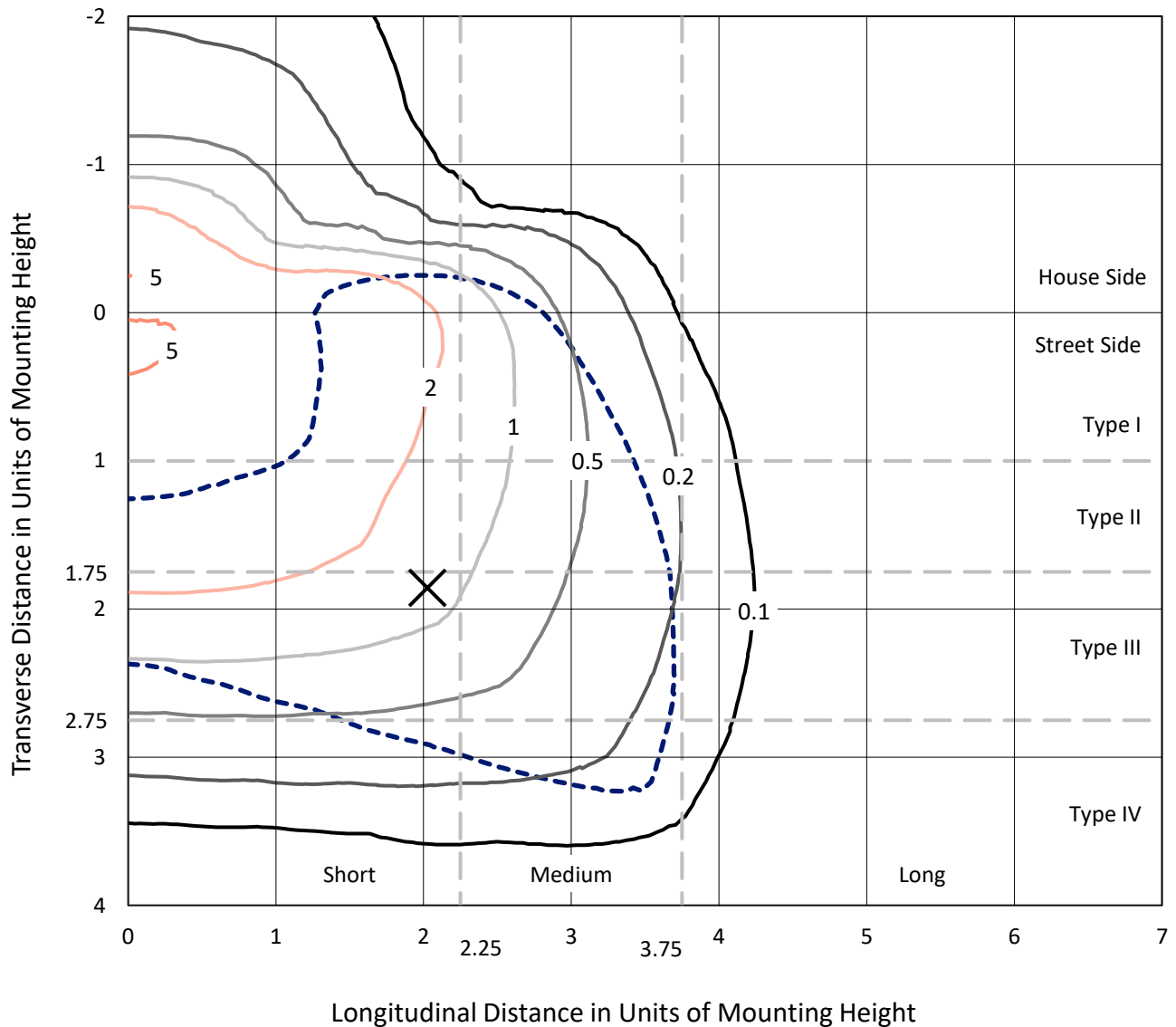
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

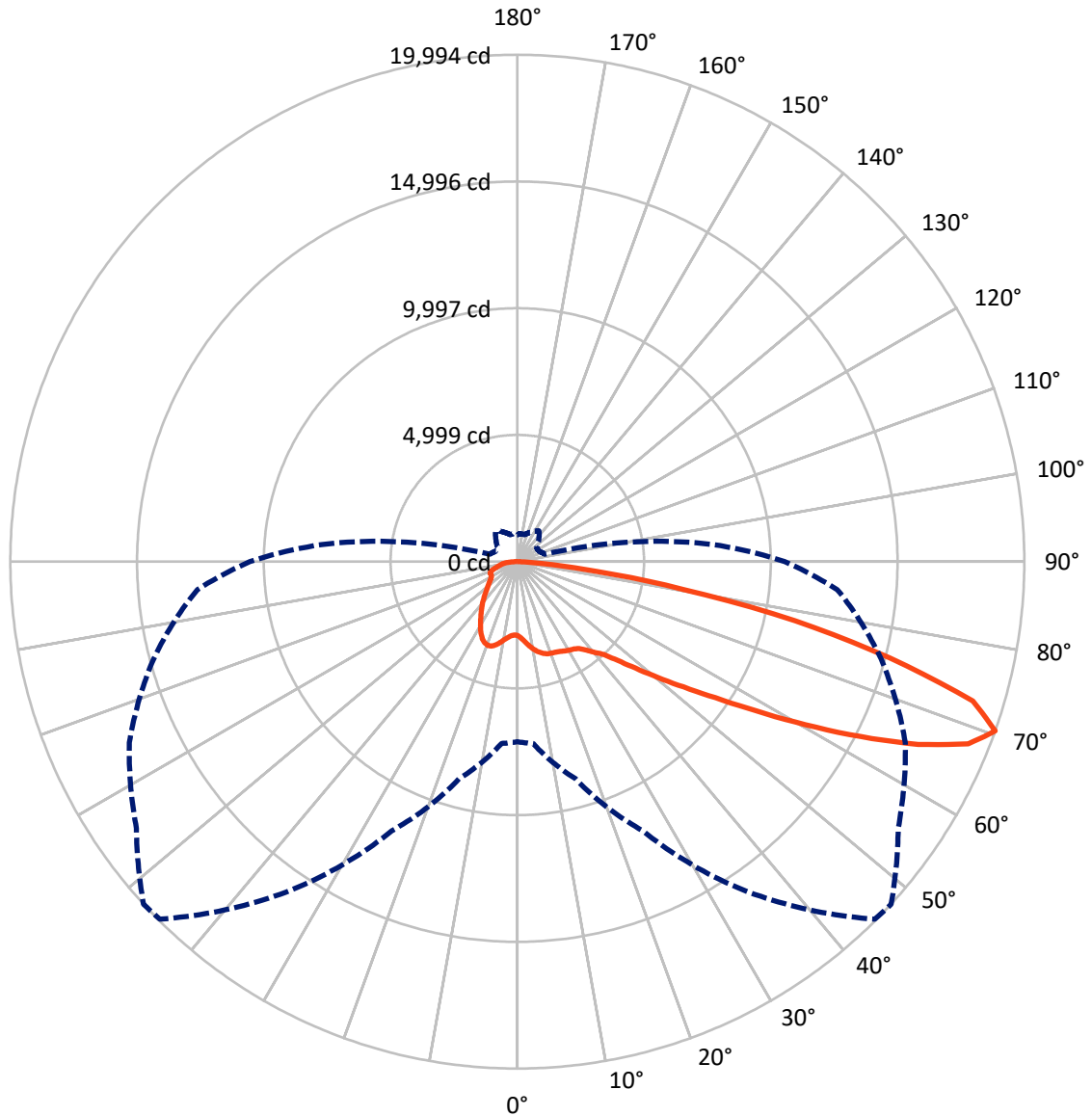
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6573.0	0.0	6573.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22457.0	0.0	22457.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	29030.0	0.0	29030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	1.0
10°-20°	1004.3	3.5
20°-30°	1670.1	5.8
30°-40°	2367.1	8.2
40°-50°	3494.3	12.0
50°-60°	6052.3	20.8
60°-70°	8549.0	29.4
70°-80°	4914.5	16.9
80°-90°	678.1	2.3
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°	29030.0	100.0
0°-180°	29030.0	100.0

Coefficient of Utilization



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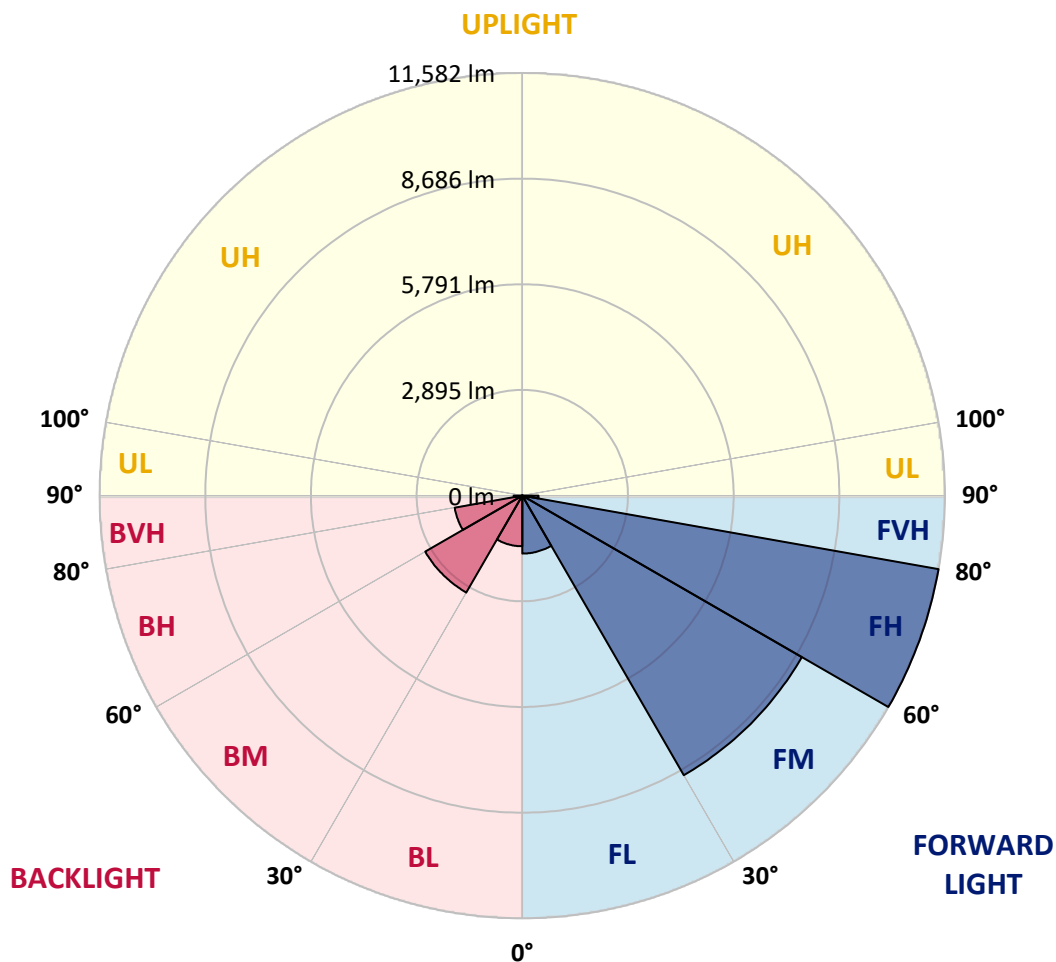
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.5	5.5			
FM	(30°-60°)	8844.9	30.5			
FH	(60°-80°)	11581.8	39.9			G4/12000
FVH	(80°-90°)	442.9	1.5			G3/500
BL	(0°-30°)	1387.3	4.8	B3/2500		
BM	(30°-60°)	3068.8	10.6	B3/5000		
BH	(60°-80°)	1881.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	235.1	0.8			G3/500
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°	35°	45°	47.5°	55°	65°	75°	85°
0°	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3
2.5°	3102.2	3091.4	3089.8	3066.5	3054.1	3030.8	3021.5	2999.7	2973.3	2946.9	2922.0
5°	3346.1	3346.1	3335.2	3302.6	3251.4	3198.5	3175.2	3133.3	3058.7	2998.1	2946.9
7.5°	3596.2	3599.3	3577.6	3529.4	3456.4	3371.0	3349.2	3287.1	3181.5	3092.9	3016.8
10°	3812.2	3812.2	3782.6	3717.4	3625.7	3532.5	3510.8	3440.9	3322.8	3212.5	3113.1
12.5°	3976.8	3976.8	3938.0	3852.5	3753.1	3669.2	3644.4	3577.6	3467.3	3344.6	3218.7
15°	4084.0	4076.2	4032.7	3936.4	3840.1	3767.1	3750.0	3694.1	3593.1	3468.8	3327.5
17.5°	4088.7	4085.6	4043.6	3962.8	3879.0	3829.2	3818.4	3781.1	3701.9	3583.8	3434.7
20°	3998.6	4004.8	3976.8	3919.3	3879.0	3857.2	3852.5	3840.1	3784.2	3673.9	3524.8
22.5°	3902.3	3913.1	3886.7	3855.7	3852.5	3874.3	3877.4	3880.5	3844.8	3737.6	3600.9
25°	3879.0	3886.7	3860.3	3832.3	3849.4	3906.9	3919.3	3931.8	3903.8	3813.7	3691.0
27.5°	3997.0	3990.8	3939.5	3879.0	3889.8	3967.5	3984.6	3998.6	3984.6	3906.9	3802.8
30°	4331.0	4310.8	4208.3	4031.2	3975.3	4029.6	4046.7	4085.6	4085.6	4028.1	3924.0
32.5°	4890.2	4851.4	4663.4	4315.5	4121.3	4088.7	4105.8	4169.4	4202.1	4157.0	4043.6
35°	5569.1	5528.7	5260.0	4792.4	4388.5	4206.7	4202.1	4273.5	4360.5	4259.5	4112.0
37.5°	6251.1	6209.1	5886.0	5360.9	4778.4	4455.3	4427.3	4452.2	4489.5	4304.6	4206.7
40°	6933.0	6883.3	6600.6	5996.3	5255.3	4784.6	4711.6	4599.8	4584.2	4452.2	4390.0
42.5°	7608.8	7563.7	7420.8	6709.3	5827.0	5106.2	4994.3	4801.7	4860.7	4781.5	4727.1
45°	8290.7	8293.8	8141.6	7509.4	6516.7	5699.6	5548.9	5247.5	5387.3	5357.8	5388.9
47.5°	8895.0	8887.3	8832.9	8286.1	7372.6	6463.9	6269.7	5920.2	6159.4	6268.2	6505.8
50°	9480.7	9476.0	9479.1	9166.9	8366.9	7372.6	7158.3	6791.7	7330.7	7708.2	8133.8
52.5°	10319.5	10345.9	10158.0	10075.6	9575.4	8446.1	8210.0	7830.9	8714.8	9309.8	10140.9
55°	11161.5	11139.8	10992.2	11077.6	10839.9	9716.8	9469.8	9168.4	10255.8	10906.7	12155.7
57.5°	11657.1	11664.8	11815.5	12233.4	12401.2	11301.3	11077.6	10844.6	11987.9	12449.3	13948.4
60°	12102.9	12138.6	12572.0	13361.2	13816.3	13247.8	13048.9	12822.1	13577.1	13760.4	15504.9
62.5°	12242.7	12353.0	13109.5	14290.1	15195.8	15444.3	15197.4	14697.1	15090.2	15018.7	16559.7
65°	11545.2	11695.9	13052.0	14638.1	16427.7	17529.1	17372.2	16443.2	16379.5	15949.2	16732.2
67.5°	9709.0	9859.7	11601.1	13908.0	16937.2	19334.2	19177.3	17717.0	17162.5	16036.2	15427.3
70°	7103.9	7198.7	8864.0	11709.9	15913.5	19940.0	19994.4	18338.4	16882.8	14854.0	12666.8
72.5°	4093.3	4303.0	5469.7	8237.9	13000.8	18408.3	18785.8	17046.0	15115.0	12391.8	8856.2
75°	1760.1	1764.7	2529.0	4543.8	8804.9	14796.6	15161.6	14130.1	11869.9	8568.8	4728.7
77.5°	837.3	852.8	1112.3	2028.8	4846.7	10223.2	11208.1	9982.4	7591.7	4116.6	1786.5
80°	543.7	554.6	680.4	1006.6	2376.8	5927.9	6614.6	5758.6	3349.2	1471.1	770.5
82.5°	329.3	332.4	455.2	615.2	1308.0	2684.4	3164.4	2499.5	1429.2	880.8	453.6
85°	200.4	201.9	276.5	380.6	793.8	927.4	952.3	944.5	838.9	576.3	242.3
87.5°	96.3	99.4	142.9	180.2	312.2	287.4	271.9	315.3	396.1	310.7	104.1
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°	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3	2914.3
2.5°	2911.2	2906.5	2895.6	2891.0	2887.9	2889.4	2887.9	2887.9	2889.4	2889.4	2889.4
5°	2925.1	2917.4	2900.3	2900.3	2909.6	2931.4	2951.5	2967.1	2984.2	2982.6	2982.6
7.5°	2985.7	2971.7	2951.5	2957.8	2981.1	3015.2	3051.0	3085.1	3119.3	3122.4	3120.9
10°	3074.3	3060.3	3038.5	3046.3	3083.6	3134.9	3179.9	3229.6	3266.9	3277.8	3274.7
12.5°	3175.2	3147.3	3128.6	3150.4	3209.4	3277.8	3321.3	3358.5	3385.0	3400.5	3394.3
15°	3277.8	3251.4	3229.6	3274.7	3346.1	3409.8	3431.6	3437.8	3442.4	3458.0	3454.9
17.5°	3377.2	3341.5	3333.7	3392.7	3461.1	3489.0	3476.6	3450.2	3430.0	3442.4	3440.9
20°	3465.7	3437.8	3434.7	3493.7	3520.1	3493.7	3440.9	3394.3	3358.5	3361.7	3360.1
22.5°	3549.6	3527.9	3531.0	3555.8	3513.9	3423.8	3336.8	3273.1	3234.3	3242.0	3246.7
25°	3642.8	3621.1	3628.8	3588.5	3450.2	3293.3	3167.5	3113.1	3097.6	3113.1	3124.0
27.5°	3764.0	3750.0	3745.4	3590.0	3336.8	3100.7	2957.8	2937.6	2951.5	2985.7	3002.8
30°	3894.5	3894.5	3869.6	3563.6	3181.5	2869.2	2744.9	2748.0	2796.2	2844.4	2861.4
32.5°	4020.3	4046.7	3969.1	3492.1	2981.1	2644.0	2549.2	2552.3	2594.3	2653.3	2668.8
35°	4124.4	4200.5	4054.5	3361.7	2744.9	2454.4	2383.0	2341.0	2342.6	2387.6	2400.1
37.5°	4267.3	4408.7	4104.2	3167.5	2493.3	2292.9	2212.1	2139.1	2090.9	2072.3	2072.3
40°	4515.9	4724.0	4116.6	2880.1	2255.6	2139.1	2024.1	1937.1	1843.9	1760.1	1744.5
42.5°	4936.8	5199.4	4091.8	2549.2	2041.2	1969.8	1857.9	1750.7	1621.8	1503.7	1494.4
45°	5682.5	5817.7	4025.0	2205.9	1850.2	1806.7	1697.9	1581.4	1444.7	1339.1	1331.3
47.5°	6877.1	6686.0	3936.4	1901.4	1676.2	1663.7	1579.9	1444.7	1308.0	1235.0	1227.2
50°	8621.6	8053.1	3924.0	1680.8	1536.4	1542.6	1474.2	1349.9	1230.3	1169.7	1160.4
52.5°	10721.9	9704.4	4006.3	1525.5	1413.6	1436.9	1402.8	1287.8	1182.2	1130.9	1121.6
55°	12760.0	11189.5	4056.0	1404.3	1298.7	1342.2	1346.8	1250.5	1154.2	1102.9	1096.7
57.5°	14414.4	12307.9	3835.5	1294.0	1199.3	1266.1	1300.2	1228.8	1140.2	1101.4	1095.2
60°	15565.5	12836.1	3207.9	1196.2	1126.2	1205.5	1283.1	1230.3	1174.4	1179.1	1182.2
62.5°	15932.1	12601.5	2406.3	1123.1	1076.5	1185.3	1311.1	1294.0	1236.5	1272.3	1278.5
65°	15324.7	11632.2	1744.5	1065.7	1033.0	1199.3	1395.0	1340.6	1214.8	1241.2	1241.2
67.5°	13291.3	10021.3	1357.7	1012.8	983.3	1225.7	1478.9	1336.0	1163.5	1194.6	1166.6
70°	10543.2	7751.7	1130.9	953.8	930.5	1186.8	1486.6	1287.8	1102.9	1109.2	1056.3
72.5°	6996.7	5096.9	972.5	897.9	849.7	1067.2	1423.0	1225.7	1043.9	1008.2	955.4
75°	3428.5	2541.4	848.2	828.0	744.1	929.0	1336.0	1166.6	980.2	924.3	894.8
77.5°	1328.2	1081.2	723.9	739.4	647.8	818.7	1221.0	1082.8	896.3	820.2	796.9
80°	644.7	613.6	593.4	616.7	532.8	697.5	1115.4	1009.7	818.7	734.8	700.6
82.5°	400.8	379.0	455.2	480.0	410.1	636.9	1057.9	947.6	720.8	609.0	581.0
85°	203.5	217.5	304.5	327.8	293.6	506.4	871.5	711.5	520.4	431.9	435.0
87.5°	77.7	104.1	160.0	172.4	156.9	267.2	480.0	414.8	334.0	226.8	209.7
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)