

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: P522782

Luminaire Tested: **GALN-SA5C-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522782
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-SA5C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25901 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

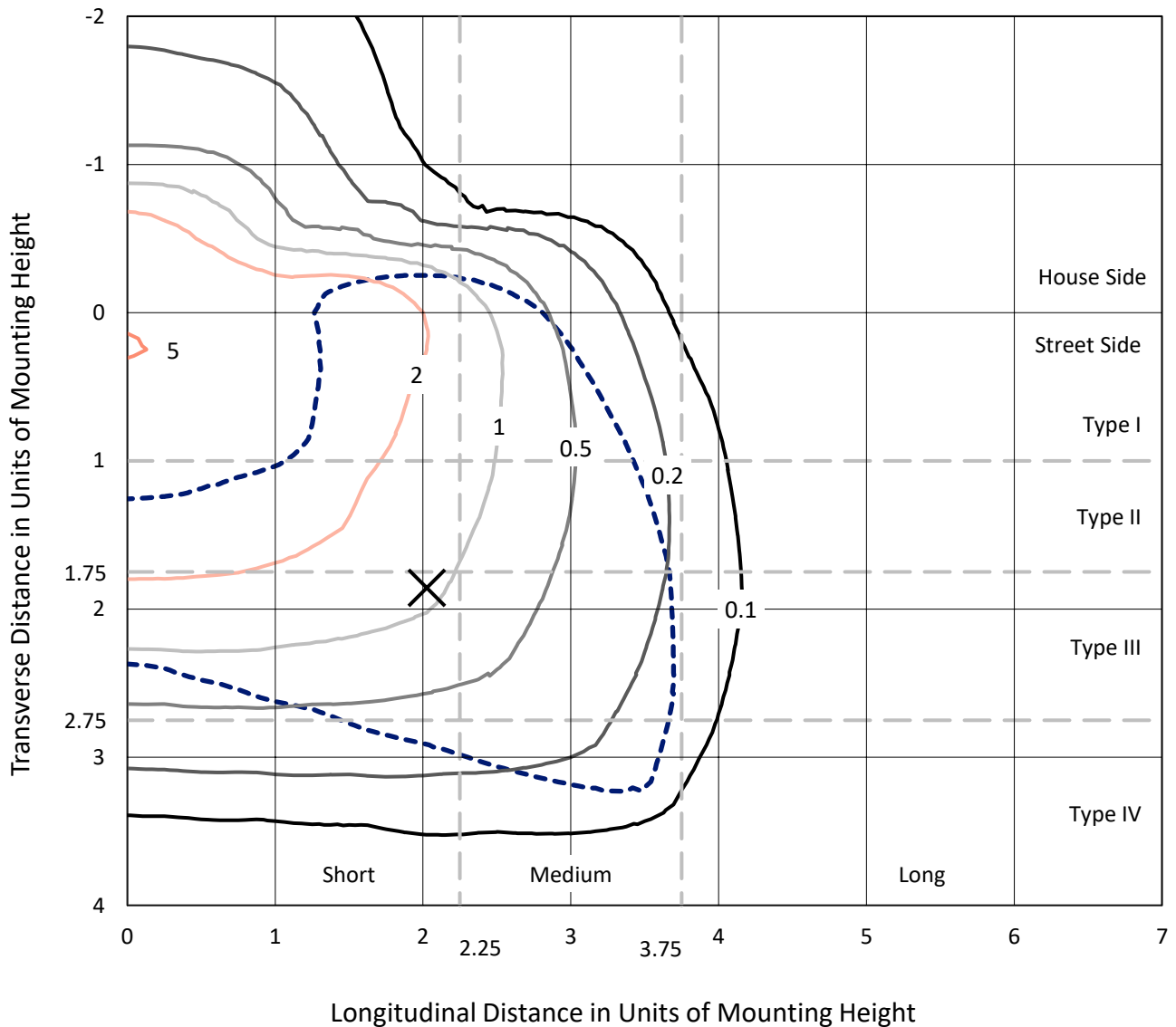
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522782
 CATALOG NUMBER: GALN-SA5C-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

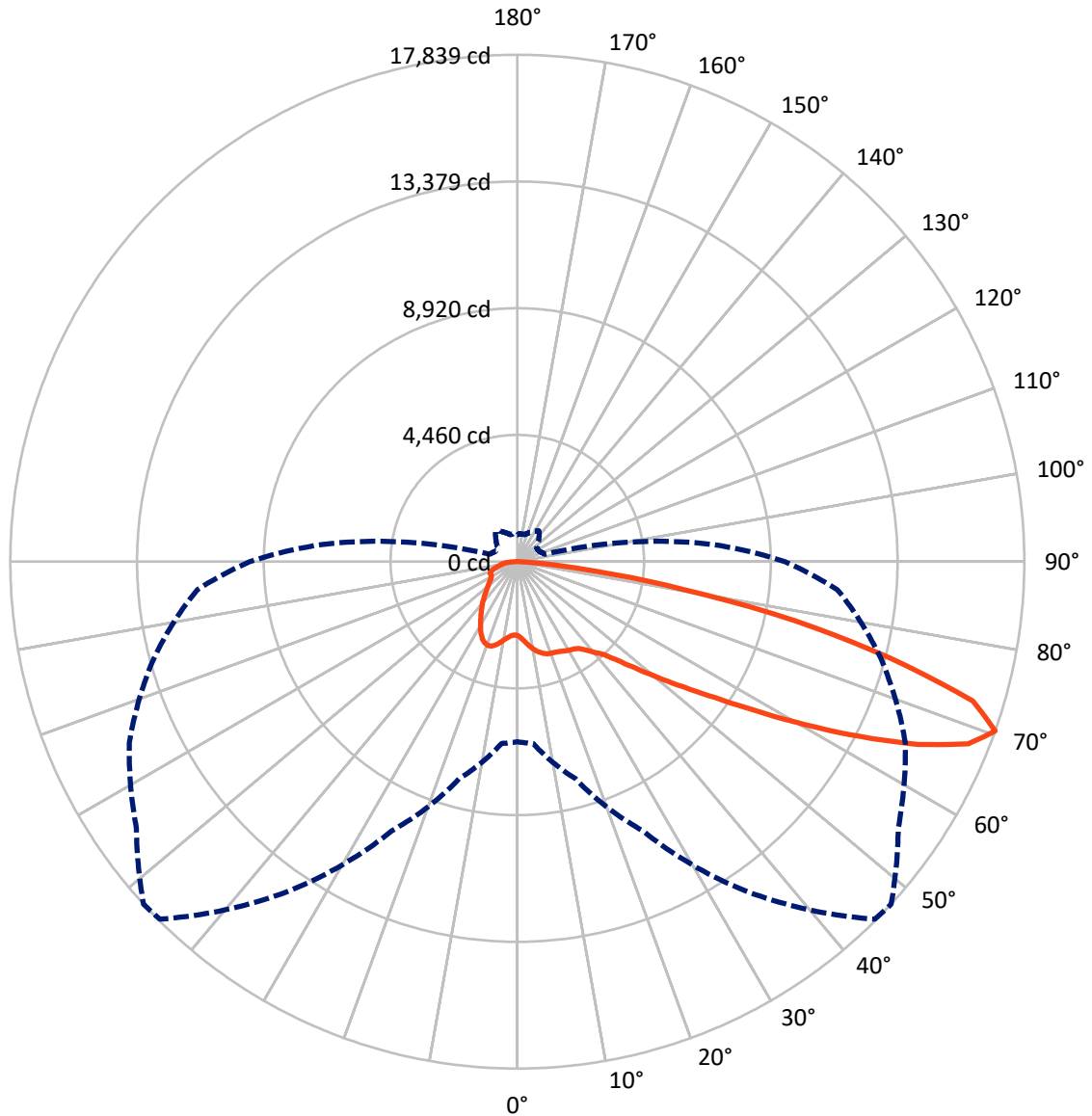
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P522782
CATALOG NUMBER: GALN-SA5C-827-U-T4W

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	5864.5	0.0	5864.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20036.5	0.0	20036.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	25901.0	0.0	25901.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	1.0
10°-20°	896.0	3.5
20°-30°	1490.1	5.8
30°-40°	2111.9	8.2
40°-50°	3117.7	12.0
50°-60°	5400.0	20.8
60°-70°	7627.6	29.4
70°-80°	4384.8	16.9
80°-90°	605.0	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°	25901.0	100.0
0°-180°	25901.0	100.0



REPORT NUMBER: P522782

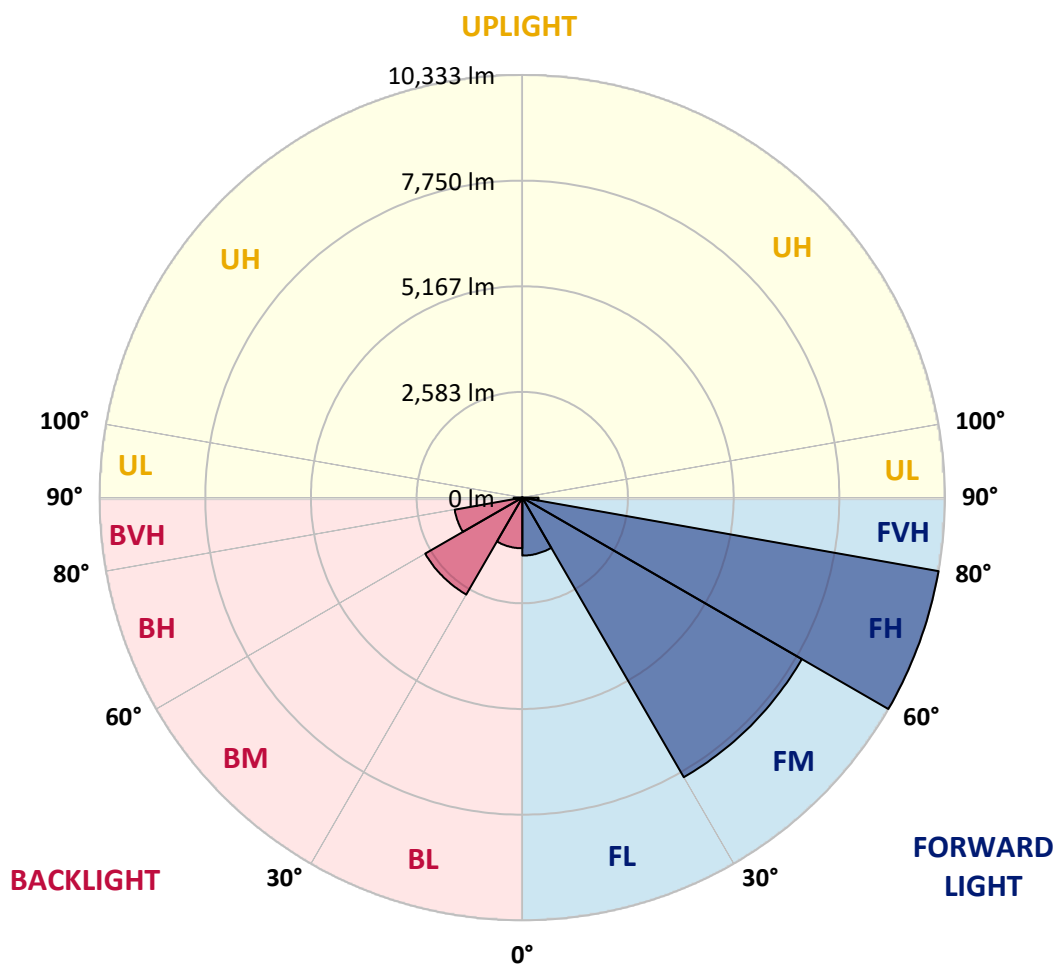
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1416.4	5.5			
FM	(30°-60°)	7891.5	30.5			
FH	(60°-80°)	10333.4	39.9			G4/12000
FVH	(80°-90°)	395.2	1.5			G3/500
BL	(0°-30°)	1237.7	4.8	B3/2500		
BM	(30°-60°)	2738.0	10.6	B3/5000		
BH	(60°-80°)	1678.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	209.8	0.8			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





REPORT NUMBER: P522782

CATALOG NUMBER: GALN-SA5C-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1
2.5°	2767.9	2758.2	2756.8	2736.0	2724.9	2704.1	2695.8	2676.4	2652.8	2629.3	2607.1
5°	2985.5	2985.5	2975.8	2946.7	2900.9	2853.8	2833.0	2795.6	2729.0	2675.0	2629.3
7.5°	3208.6	3211.4	3192.0	3149.0	3083.9	3007.6	2988.2	2932.8	2838.5	2759.5	2691.6
10°	3401.3	3401.3	3374.9	3316.7	3234.9	3151.8	3132.4	3070.0	2964.7	2866.3	2777.6
12.5°	3548.2	3548.2	3513.5	3437.3	3348.6	3273.7	3251.6	3192.0	3093.6	2984.1	2871.8
15°	3643.8	3636.9	3598.1	3512.1	3426.2	3361.1	3345.8	3295.9	3205.8	3095.0	2968.8
17.5°	3648.0	3645.2	3607.8	3535.7	3460.9	3416.5	3406.8	3373.5	3302.9	3197.5	3064.5
20°	3567.6	3573.1	3548.2	3496.9	3460.9	3441.5	3437.3	3426.2	3376.3	3277.9	3144.8
22.5°	3481.6	3491.4	3467.8	3440.1	3437.3	3456.7	3459.5	3462.2	3430.4	3334.7	3212.8
25°	3460.9	3467.8	3444.2	3419.3	3434.5	3485.8	3496.9	3508.0	3483.0	3402.6	3293.2
27.5°	3566.2	3560.7	3514.9	3460.9	3470.6	3539.9	3555.1	3567.6	3555.1	3485.8	3392.9
30°	3864.2	3846.2	3754.7	3596.7	3546.8	3595.3	3610.5	3645.2	3645.2	3593.9	3501.1
32.5°	4363.1	4328.5	4160.8	3850.3	3677.1	3648.0	3663.2	3720.0	3749.1	3709.0	3607.8
35°	4968.8	4932.8	4693.0	4275.8	3915.5	3753.3	3749.1	3812.9	3890.5	3800.4	3668.8
37.5°	5577.3	5539.9	5251.6	4783.1	4263.4	3975.1	3950.1	3972.3	4005.6	3840.6	3753.3
40°	6185.7	6141.4	5889.1	5350.0	4688.9	4268.9	4203.8	4104.0	4090.1	3972.3	3916.9
42.5°	6788.7	6748.5	6621.0	5986.2	5198.9	4555.8	4456.0	4284.1	4336.8	4266.1	4217.6
45°	7397.1	7399.9	7264.1	6700.0	5814.3	5085.3	4950.8	4681.9	4806.7	4780.3	4808.1
47.5°	7936.3	7929.3	7880.8	7393.0	6578.0	5767.2	5593.9	5282.1	5495.5	5592.5	5804.6
50°	8458.8	8454.6	8457.4	8178.8	7465.0	6578.0	6386.7	6059.6	6540.6	6877.4	7257.1
52.5°	9207.2	9230.8	9063.1	8989.6	8543.3	7535.7	7325.0	6986.9	7775.5	8306.3	9047.9
55°	9958.5	9939.1	9807.4	9883.6	9671.6	8669.5	8449.1	8180.2	9150.4	9731.2	10845.5
57.5°	10400.6	10407.5	10542.0	10914.8	11064.5	10083.2	9883.6	9675.7	10695.8	11107.5	12445.0
60°	10798.4	10830.3	11217.0	11921.0	12327.1	11819.9	11642.5	11440.1	12113.7	12277.2	13833.7
62.5°	10923.1	11021.5	11696.5	12749.9	13557.9	13779.7	13559.3	13113.0	13463.7	13399.9	14774.8
65°	10300.8	10435.2	11645.2	13060.3	14657.0	15639.7	15499.7	14670.9	14614.1	14230.1	14928.7
67.5°	8662.5	8797.0	10350.7	12408.9	15111.6	17250.2	17110.3	15807.4	15312.6	14307.7	13764.4
70°	6338.2	6422.8	7908.6	10447.7	14198.3	17790.8	17839.3	16361.8	15063.1	13253.0	11301.5
72.5°	3652.1	3839.2	4880.1	7350.0	11599.5	16424.2	16761.0	15208.7	13485.8	11056.2	7901.6
75°	1570.3	1574.5	2256.4	4054.1	7855.9	13201.7	13527.4	12607.1	10590.5	7645.2	4219.0
77.5°	747.1	760.9	992.4	1810.1	4324.3	9121.3	10000.0	8906.5	6773.4	3672.9	1593.9
80°	485.1	494.8	607.1	898.1	2120.6	5289.0	5901.6	5137.9	2988.2	1312.5	687.5
82.5°	293.8	296.6	406.1	548.9	1167.0	2395.0	2823.3	2230.1	1275.1	785.9	404.7
85°	178.8	180.2	246.7	339.6	708.2	827.4	849.6	842.7	748.4	514.2	216.2
87.5°	85.9	88.7	127.5	160.8	278.6	256.4	242.6	281.4	353.4	277.2	92.9
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°	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1	2600.1
2.5°	2597.4	2593.2	2583.5	2579.4	2576.6	2578.0	2576.6	2576.6	2578.0	2578.0	2578.0
5°	2609.9	2602.9	2587.7	2587.7	2596.0	2615.4	2633.4	2647.3	2662.5	2661.1	2661.1
7.5°	2663.9	2651.4	2633.4	2639.0	2659.7	2690.2	2722.1	2752.6	2783.1	2785.9	2784.5
10°	2742.9	2730.4	2711.0	2718.0	2751.2	2797.0	2837.2	2881.5	2914.8	2924.5	2921.7
12.5°	2833.0	2808.0	2791.4	2810.8	2863.5	2924.5	2963.3	2996.5	3020.1	3034.0	3028.4
15°	2924.5	2900.9	2881.5	2921.7	2985.5	3042.3	3061.7	3067.2	3071.4	3085.3	3082.5
17.5°	3013.2	2981.3	2974.4	3027.0	3088.0	3113.0	3101.9	3078.3	3060.3	3071.4	3070.0
20°	3092.2	3067.2	3064.5	3117.1	3140.7	3117.1	3070.0	3028.4	2996.5	2999.3	2997.9
22.5°	3167.0	3147.6	3150.4	3172.6	3135.1	3054.8	2977.1	2920.3	2885.7	2892.6	2896.8
25°	3250.2	3230.8	3237.7	3201.7	3078.3	2938.3	2826.1	2777.6	2763.7	2777.6	2787.3
27.5°	3358.3	3345.8	3341.7	3203.1	2977.1	2766.5	2639.0	2620.9	2633.4	2663.9	2679.2
30°	3474.7	3474.7	3452.5	3179.5	2838.5	2560.0	2449.1	2451.8	2494.8	2537.8	2553.0
32.5°	3587.0	3610.5	3541.2	3115.7	2659.7	2359.0	2274.4	2277.2	2314.6	2367.3	2381.2
35°	3679.8	3747.8	3617.5	2999.3	2449.1	2189.9	2126.1	2088.7	2090.1	2130.3	2141.4
37.5°	3807.4	3933.5	3661.8	2826.1	2224.5	2045.7	1973.7	1908.5	1865.6	1848.9	1848.9
40°	4029.1	4214.8	3672.9	2569.7	2012.5	1908.5	1806.0	1728.4	1645.2	1570.3	1556.5
42.5°	4404.7	4639.0	3650.7	2274.4	1821.2	1757.5	1657.7	1562.0	1447.0	1341.7	1333.3
45°	5070.0	5190.6	3591.1	1968.1	1650.7	1611.9	1514.9	1411.0	1289.0	1194.7	1187.8
47.5°	6135.9	5965.4	3512.1	1696.5	1495.5	1484.4	1409.6	1289.0	1167.0	1101.9	1094.9
50°	7692.3	7185.1	3501.1	1499.7	1370.8	1376.3	1315.3	1204.4	1097.7	1043.7	1035.3
52.5°	9566.2	8658.4	3574.5	1361.1	1261.3	1282.1	1251.6	1149.0	1054.8	1009.0	1000.7
55°	11384.7	9983.4	3618.9	1253.0	1158.7	1197.5	1201.7	1115.7	1029.8	984.1	978.5
57.5°	12860.8	10981.3	3422.1	1154.5	1070.0	1129.6	1160.1	1096.3	1017.3	982.7	977.1
60°	13887.8	11452.6	2862.1	1067.2	1004.9	1075.5	1144.8	1097.7	1047.8	1052.0	1054.8
62.5°	14214.9	11243.3	2146.9	1002.1	960.5	1057.5	1169.8	1154.5	1103.3	1135.1	1140.7
65°	13673.0	10378.4	1556.5	950.8	921.7	1070.0	1244.6	1196.1	1083.9	1107.4	1107.4
67.5°	11858.7	8941.1	1211.4	903.7	877.3	1093.6	1319.5	1192.0	1038.1	1065.8	1040.9
70°	9406.8	6916.2	1009.0	851.0	830.2	1058.9	1326.4	1149.0	984.1	989.6	942.5
72.5°	6242.6	4547.5	867.6	801.1	758.1	952.2	1269.6	1093.6	931.4	899.5	852.4
75°	3058.9	2267.5	756.8	738.7	663.9	828.8	1192.0	1040.9	874.6	824.7	798.3
77.5°	1185.0	964.7	645.9	659.7	578.0	730.4	1089.4	966.0	799.7	731.8	711.0
80°	575.2	547.5	529.5	550.2	475.4	622.3	995.2	900.9	730.4	655.6	625.1
82.5°	357.6	338.2	406.1	428.3	365.9	568.3	943.9	845.5	643.1	543.3	518.4
85°	181.6	194.0	271.7	292.4	262.0	451.8	777.5	634.8	464.3	385.3	388.1
87.5°	69.3	92.9	142.8	153.8	140.0	238.4	428.3	370.1	298.0	202.4	187.1
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)