

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: P522744

Luminaire Tested: **GALN-SA4C-750-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522744
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-SA4C-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 27832 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

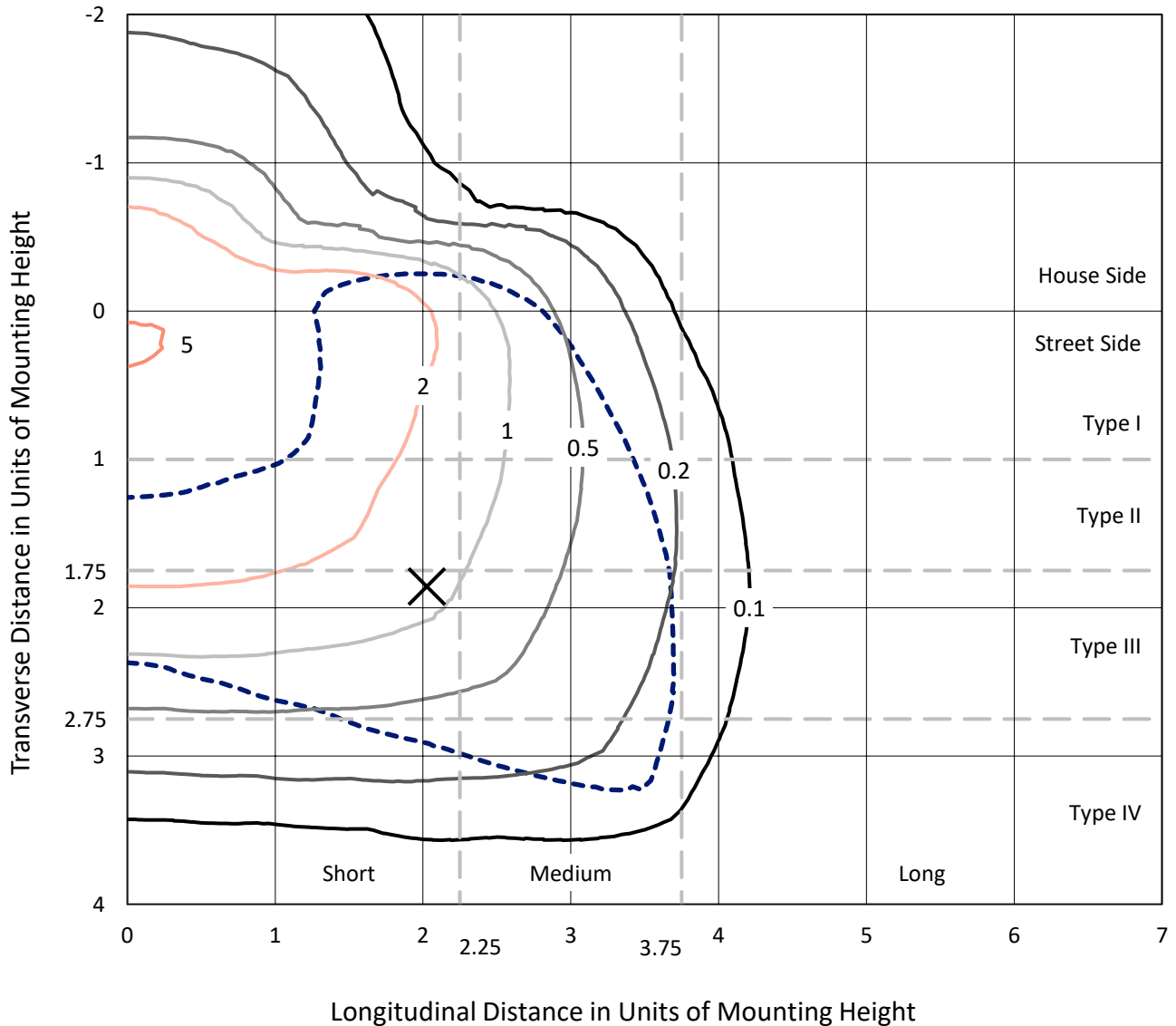
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522744
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Iso-Footcandle Lines of Horizontal Illumination

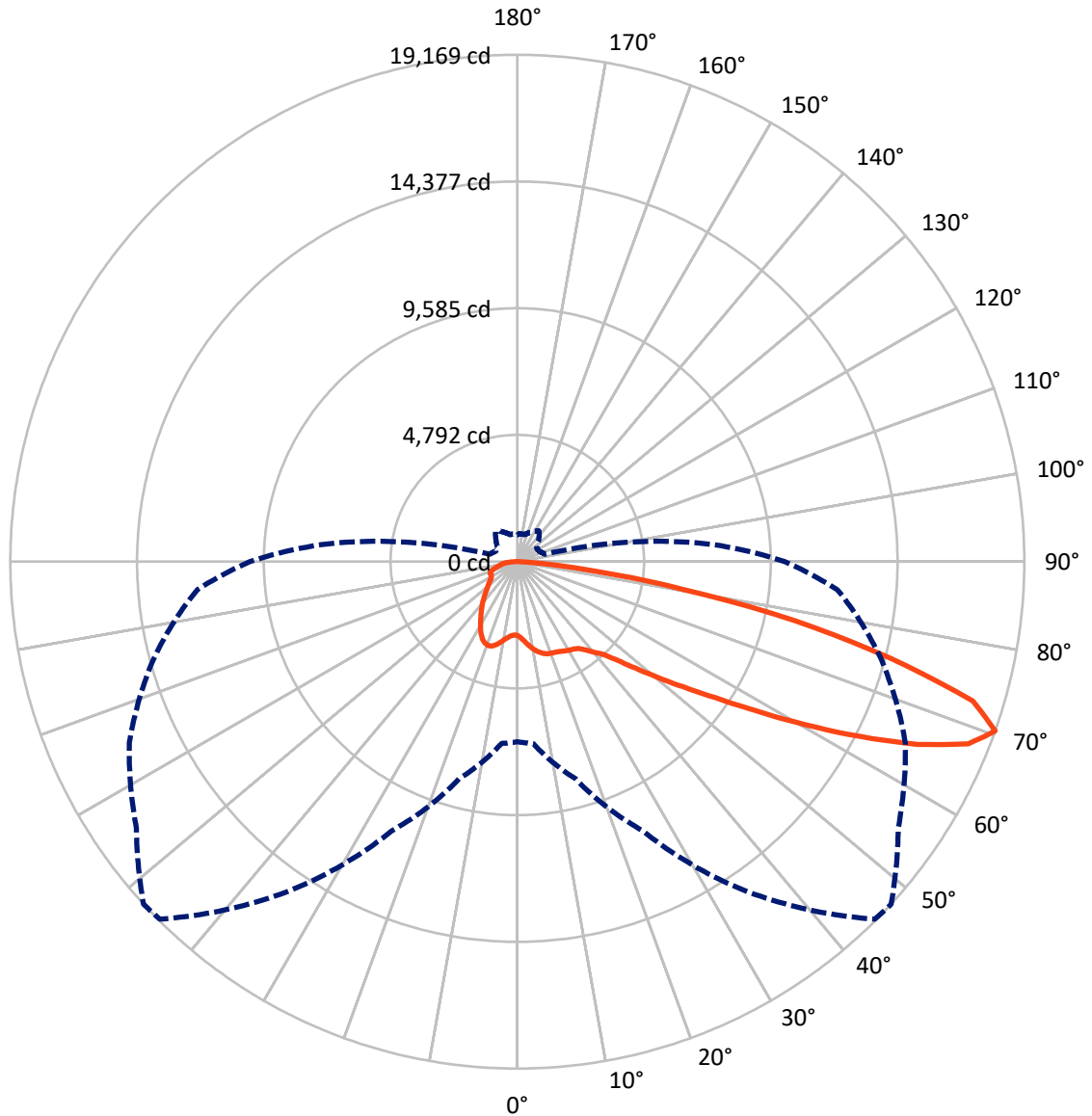
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P522744
CATALOG NUMBER: GALN-SA4C-750-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	6301.7	0.0	6301.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21530.3	0.0	21530.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	27832.0	0.0	27832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	1.0
10°-20°	962.8	3.5
20°-30°	1601.2	5.8
30°-40°	2269.4	8.2
40°-50°	3350.1	12.0
50°-60°	5802.5	20.8
60°-70°	8196.2	29.4
70°-80°	4711.7	16.9
80°-90°	650.1	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°	27832.0	100.0
0°-180°	27832.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522744

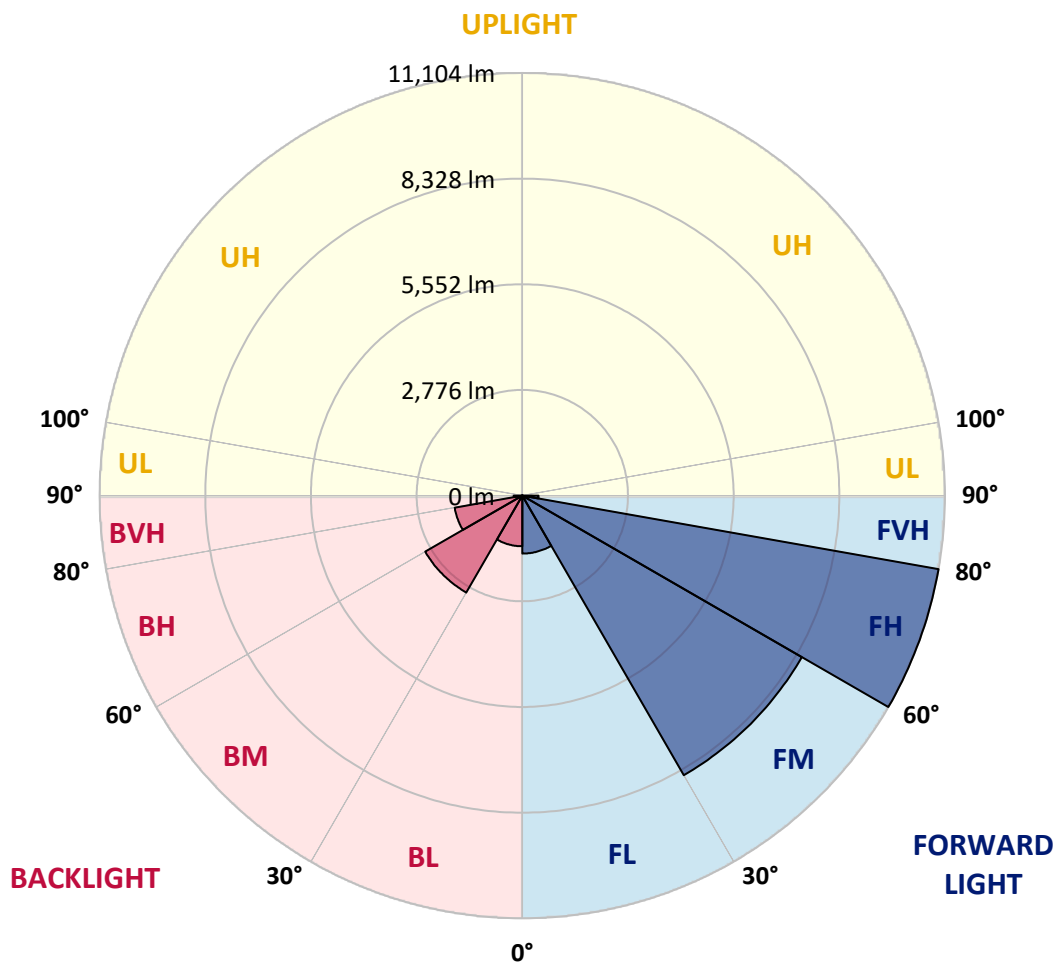
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.0	5.5			
FM	(30°-60°)	8479.9	30.5			
FH	(60°-80°)	11103.8	39.9			G4/12000
FVH	(80°-90°)	424.7	1.5			G3/500
BL	(0°-30°)	1330.0	4.8	B3/2500		
BM	(30°-60°)	2942.2	10.6	B3/5000		
BH	(60°-80°)	1804.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	225.4	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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CATALOG NUMBER: GALN-SA4C-750-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2974.2	2963.8	2962.3	2940.0	2928.0	2905.7	2896.8	2875.9	2850.6	2825.3	2801.4
5°	3208.0	3208.0	3197.6	3166.3	3117.2	3066.5	3044.2	3004.0	2932.5	2874.4	2825.3
7.5°	3447.8	3450.8	3429.9	3383.8	3313.8	3231.9	3211.0	3151.4	3050.2	2965.3	2892.3
10°	3654.8	3654.8	3626.5	3564.0	3476.1	3386.8	3365.9	3298.9	3185.7	3080.0	2984.6
12.5°	3812.7	3812.7	3775.5	3693.6	3598.2	3517.8	3494.0	3429.9	3324.2	3206.5	3085.9
15°	3915.5	3908.0	3866.3	3774.0	3681.6	3611.6	3595.3	3541.6	3444.8	3325.7	3190.2
17.5°	3919.9	3917.0	3876.7	3799.3	3718.9	3671.2	3660.8	3625.0	3549.1	3435.9	3292.9
20°	3833.6	3839.5	3812.7	3757.6	3718.9	3698.0	3693.6	3681.6	3628.0	3522.3	3379.3
22.5°	3741.2	3751.6	3726.3	3696.5	3693.6	3714.4	3717.4	3720.4	3686.1	3583.3	3452.3
25°	3718.9	3726.3	3701.0	3674.2	3690.6	3745.7	3757.6	3769.5	3742.7	3656.3	3538.7
27.5°	3832.1	3826.1	3777.0	3718.9	3729.3	3803.8	3820.2	3833.6	3820.2	3745.7	3645.9
30°	4152.3	4132.9	4034.6	3864.8	3811.2	3863.3	3879.7	3917.0	3917.0	3861.9	3762.1
32.5°	4688.4	4651.2	4471.0	4137.4	3951.2	3919.9	3936.3	3997.4	4028.7	3985.5	3876.7
35°	5339.3	5300.6	5042.9	4594.6	4207.4	4033.1	4028.7	4097.2	4180.6	4083.8	3942.3
37.5°	5993.1	5952.9	5643.1	5139.7	4581.2	4271.4	4244.6	4268.4	4304.2	4127.0	4033.1
40°	6646.9	6599.3	6328.2	5748.8	5038.4	4587.2	4517.2	4409.9	4395.0	4268.4	4208.9
42.5°	7294.8	7251.6	7114.6	6432.5	5586.5	4895.5	4788.2	4603.5	4660.1	4584.2	4532.1
45°	7948.6	7951.6	7805.6	7199.5	6247.8	5464.4	5319.9	5031.0	5165.0	5136.7	5166.5
47.5°	8527.9	8520.5	8468.4	7944.1	7068.4	6197.1	6011.0	5675.9	5905.2	6009.5	6237.3
50°	9089.4	9085.0	9087.9	8788.6	8021.6	7068.4	6862.9	6511.4	7028.2	7390.1	7798.2
52.5°	9893.7	9919.0	9738.8	9659.8	9180.3	8097.5	7871.2	7507.8	8355.2	8925.6	9722.4
55°	10700.9	10680.0	10538.6	10620.5	10392.6	9315.8	9079.0	8790.1	9832.6	10456.6	11654.1
57.5°	11176.0	11183.4	11327.9	11728.5	11889.4	10834.9	10620.5	10397.1	11493.2	11935.6	13372.8
60°	11603.4	11637.7	12053.2	12809.8	13246.2	12701.1	12510.4	12293.0	13016.8	13192.6	14865.1
62.5°	11737.5	11843.2	12568.5	13700.4	14568.7	14807.0	14570.2	14090.6	14467.4	14398.9	15876.3
65°	11068.8	11213.2	12513.4	14034.0	15749.7	16805.7	16655.3	15764.6	15703.6	15291.0	16041.7
67.5°	9308.4	9452.8	11122.4	13334.0	16238.3	18536.3	18385.9	16985.9	16454.2	15374.4	14790.6
70°	6810.7	6901.6	8498.2	11226.6	15256.8	19117.1	19169.3	17581.6	16186.1	14241.0	12144.1
72.5°	3924.4	4125.5	5244.0	7898.0	12464.3	17648.7	18010.6	16342.5	14491.3	11880.4	8490.7
75°	1687.4	1691.9	2424.6	4356.3	8441.6	14185.9	14535.9	13547.0	11380.0	8215.2	4533.5
77.5°	802.8	817.6	1066.4	1945.1	4646.7	9801.3	10745.6	9570.5	7278.4	3946.7	1712.7
80°	521.3	531.7	652.3	965.1	2278.7	5683.3	6341.6	5521.0	3211.0	1410.4	738.7
82.5°	315.7	318.7	436.4	589.8	1254.0	2573.6	3033.8	2396.3	1370.2	844.5	434.9
85°	192.1	193.6	265.1	364.9	761.1	889.1	913.0	905.5	804.2	552.5	232.3
87.5°	92.3	95.3	137.0	172.8	299.4	275.5	260.6	302.3	379.8	297.9	99.8
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°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2791.0	2786.6	2776.1	2771.7	2768.7	2770.2	2768.7	2768.7	2770.2	2770.2	2770.2
5°	2804.4	2797.0	2780.6	2780.6	2789.5	2810.4	2829.7	2844.6	2861.0	2859.5	2859.5
7.5°	2862.5	2849.1	2829.7	2835.7	2858.0	2890.8	2925.1	2957.8	2990.6	2993.6	2992.1
10°	2947.4	2934.0	2913.1	2920.6	2956.3	3005.5	3048.7	3096.3	3132.1	3142.5	3139.5
12.5°	3044.2	3017.4	2999.5	3020.4	3077.0	3142.5	3184.2	3219.9	3245.3	3260.2	3254.2
15°	3142.5	3117.2	3096.3	3139.5	3208.0	3269.1	3289.9	3295.9	3300.4	3315.3	3312.3
17.5°	3237.8	3203.6	3196.1	3252.7	3318.2	3345.1	3333.1	3307.8	3288.5	3300.4	3298.9
20°	3322.7	3295.9	3292.9	3349.5	3374.8	3349.5	3298.9	3254.2	3219.9	3222.9	3221.4
22.5°	3403.1	3382.3	3385.3	3409.1	3368.9	3282.5	3199.1	3138.0	3100.8	3108.2	3112.7
25°	3492.5	3471.6	3479.1	3440.4	3307.8	3157.4	3036.8	2984.6	2969.7	2984.6	2995.1
27.5°	3608.7	3595.3	3590.8	3441.9	3199.1	2972.7	2835.7	2816.3	2829.7	2862.5	2878.9
30°	3733.8	3733.8	3709.9	3416.5	3050.2	2750.8	2631.7	2634.6	2680.8	2727.0	2743.4
32.5°	3854.4	3879.7	3805.3	3348.0	2858.0	2534.9	2444.0	2447.0	2487.2	2543.8	2558.7
35°	3954.2	4027.2	3887.2	3222.9	2631.7	2353.2	2284.6	2244.4	2245.9	2289.1	2301.0
37.5°	4091.2	4226.7	3934.8	3036.8	2390.4	2198.3	2120.8	2050.8	2004.6	1986.8	1986.8
40°	4329.5	4529.1	3946.7	2761.2	2162.5	2050.8	1940.6	1857.2	1767.8	1687.4	1672.5
42.5°	4733.1	4984.8	3922.9	2444.0	1957.0	1888.5	1781.2	1678.5	1554.9	1441.7	1432.7
45°	5448.0	5577.6	3858.9	2114.9	1773.8	1732.1	1627.8	1516.1	1385.1	1283.8	1276.4
47.5°	6593.3	6410.1	3774.0	1822.9	1607.0	1595.1	1514.7	1385.1	1254.0	1184.0	1176.6
50°	8265.8	7720.7	3762.1	1611.5	1473.0	1478.9	1413.4	1294.2	1179.6	1121.5	1112.5
52.5°	10279.4	9303.9	3841.0	1462.5	1355.3	1377.6	1344.9	1234.7	1133.4	1084.2	1075.3
55°	12233.4	10727.7	3888.7	1346.4	1245.1	1286.8	1291.3	1198.9	1106.6	1057.4	1051.5
57.5°	13819.6	11800.0	3677.2	1240.6	1149.8	1213.8	1246.6	1178.1	1093.2	1055.9	1050.0
60°	14923.2	12306.4	3075.5	1146.8	1079.8	1155.7	1230.2	1179.6	1125.9	1130.4	1133.4
62.5°	15274.6	12081.5	2307.0	1076.8	1032.1	1136.4	1257.0	1240.6	1185.5	1219.8	1225.7
65°	14692.3	11152.2	1672.5	1021.7	990.4	1149.8	1337.4	1285.3	1164.7	1190.0	1190.0
67.5°	12742.8	9607.7	1301.7	971.0	942.8	1175.1	1417.8	1280.8	1115.5	1145.3	1118.5
70°	10108.1	7431.8	1084.2	914.5	892.1	1137.9	1425.3	1234.7	1057.4	1063.4	1012.7
72.5°	6708.0	4886.5	932.3	860.8	814.7	1023.2	1364.2	1175.1	1000.8	966.6	915.9
75°	3287.0	2436.6	813.2	793.8	713.4	890.6	1280.8	1118.5	939.8	886.2	857.9
77.5°	1273.4	1036.6	694.0	708.9	621.1	784.9	1170.6	1038.1	859.3	786.4	764.0
80°	618.1	588.3	568.9	591.3	510.8	668.7	1069.3	968.1	784.9	704.5	671.7
82.5°	384.2	363.4	436.4	460.2	393.2	610.6	1014.2	908.5	691.1	583.8	557.0
85°	195.1	208.5	291.9	314.3	281.5	485.5	835.5	682.1	498.9	414.0	417.0
87.5°	74.5	99.8	153.4	165.3	150.4	256.2	460.2	397.7	320.2	217.4	201.1
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)