

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: P522804

Luminaire Tested: **GALN-SA6B-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522804
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-SA6B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30752 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

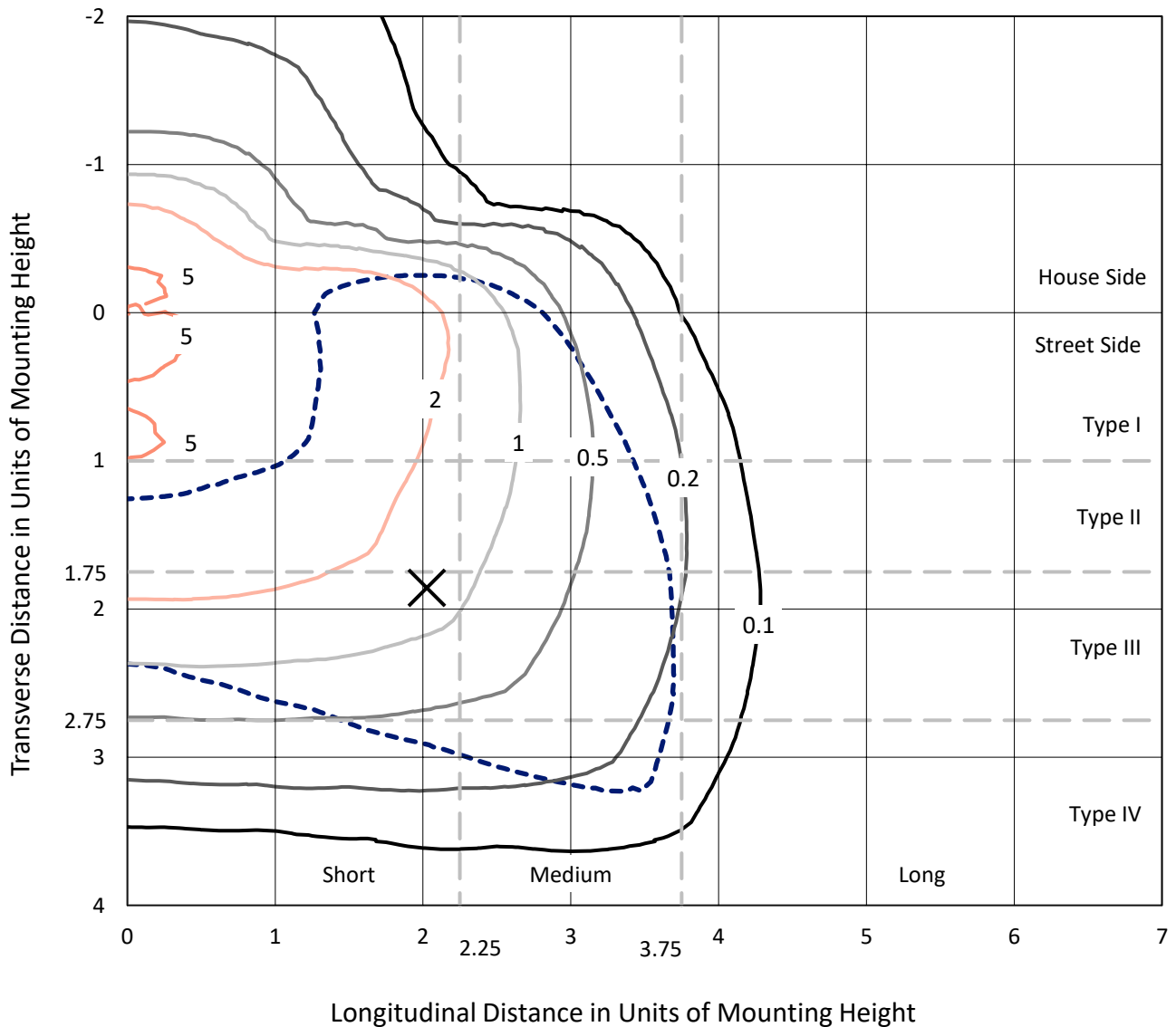
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

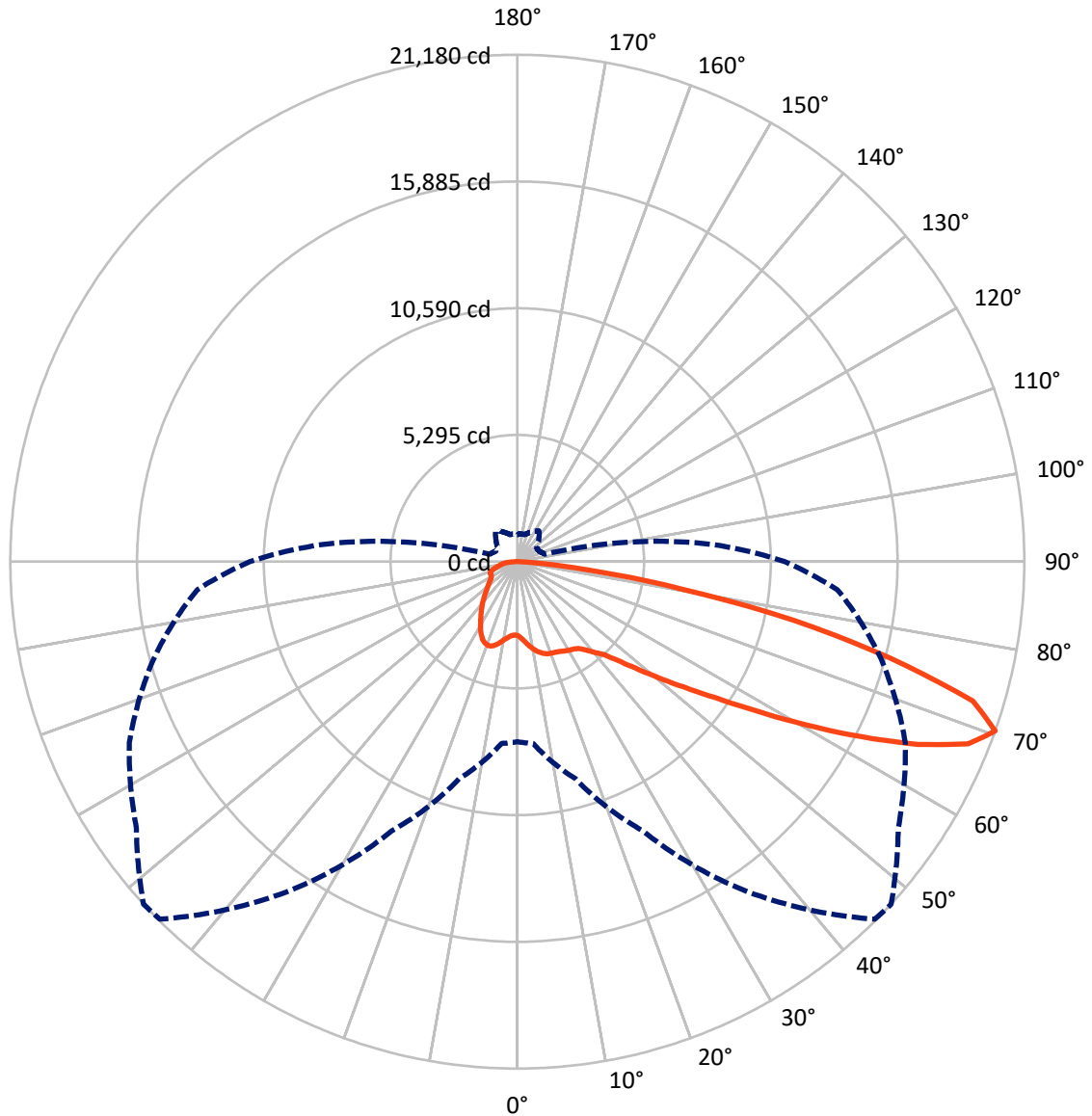
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	6962.9	0.0	6962.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23789.2	0.0	23789.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	30752.0	0.0	30752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.2	1.0
10°-20°	1063.8	3.5
20°-30°	1769.1	5.8
30°-40°	2507.5	8.2
40°-50°	3701.6	12.0
50°-60°	6411.3	20.8
60°-70°	9056.2	29.4
70°-80°	5206.0	16.9
80°-90°	718.3	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°	30752.0	100.0
0°-180°	30752.0	100.0

Coefficient of Utilization



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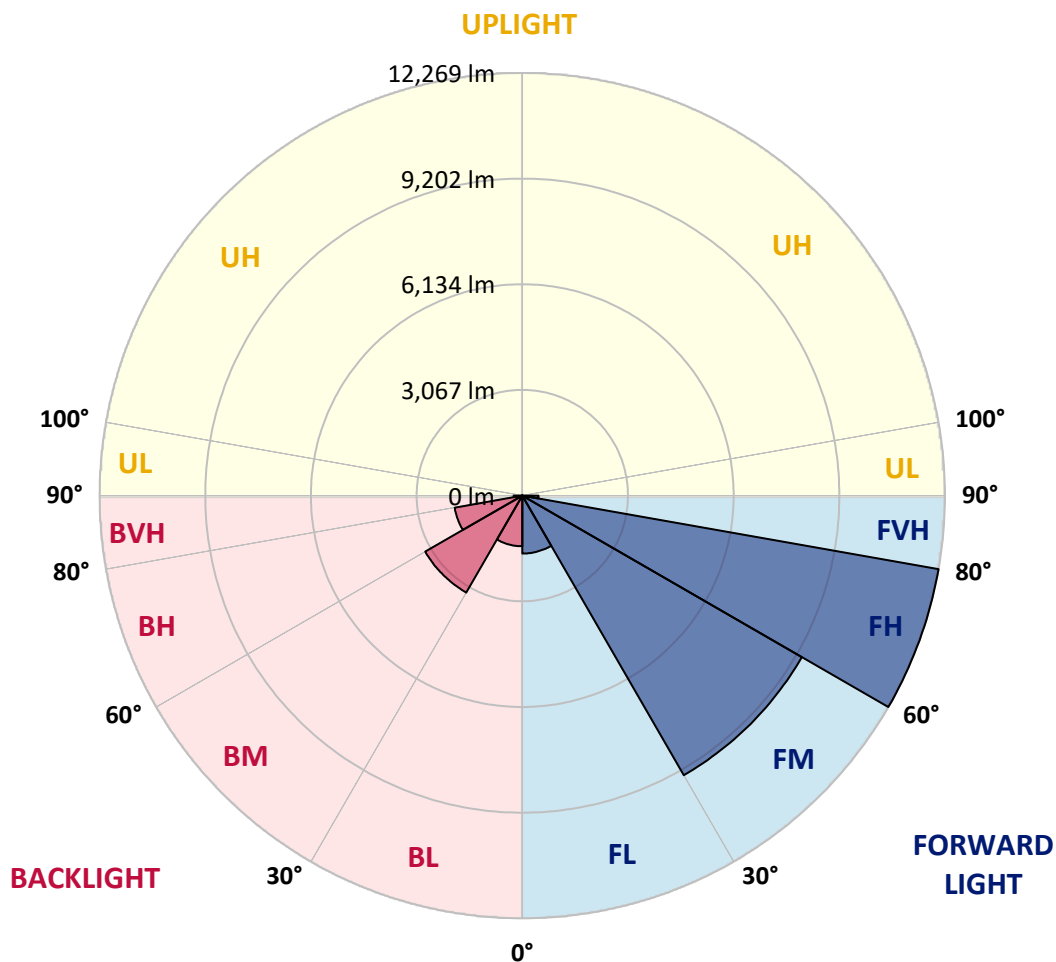
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.6	5.5			
FM	(30°-60°)	9369.5	30.5			
FH	(60°-80°)	12268.8	39.9			G5
FVH	(80°-90°)	469.2	1.5			G3/500
BL	(0°-30°)	1469.6	4.8	B3/2500		
BM	(30°-60°)	3250.8	10.6	B3/5000		
BH	(60°-80°)	1993.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	249.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1
2.5°	3286.2	3274.7	3273.1	3248.4	3235.2	3210.6	3200.7	3177.6	3149.7	3121.7	3095.4
5°	3544.6	3544.6	3533.1	3498.5	3444.2	3388.3	3363.6	3319.2	3240.2	3176.0	3121.7
7.5°	3809.5	3812.8	3789.8	3738.8	3661.4	3570.9	3547.9	3482.1	3370.2	3276.4	3195.7
10°	4038.3	4038.3	4007.0	3937.9	3840.8	3742.1	3719.0	3645.0	3519.9	3403.1	3297.8
12.5°	4212.7	4212.7	4171.6	4081.1	3975.8	3886.9	3860.6	3789.8	3673.0	3543.0	3409.7
15°	4326.3	4318.0	4272.0	4169.9	4067.9	3990.6	3972.5	3913.2	3806.3	3674.6	3524.9
17.5°	4331.2	4327.9	4283.5	4197.9	4109.0	4056.4	4044.9	4005.4	3921.4	3796.4	3638.4
20°	4235.8	4242.3	4212.7	4151.8	4109.0	4086.0	4081.1	4067.9	4008.7	3891.8	3733.8
22.5°	4133.7	4145.2	4117.3	4084.4	4081.1	4104.1	4107.4	4110.7	4072.8	3959.3	3814.5
25°	4109.0	4117.3	4089.3	4059.7	4077.8	4138.7	4151.8	4165.0	4135.4	4039.9	3909.9
27.5°	4234.1	4227.5	4173.2	4109.0	4120.6	4202.8	4220.9	4235.8	4220.9	4138.7	4028.4
30°	4587.9	4566.5	4457.9	4270.3	4211.1	4268.7	4286.8	4327.9	4327.9	4267.0	4156.8
32.5°	5180.3	5139.2	4940.1	4571.5	4365.8	4331.2	4349.3	4416.8	4451.3	4403.6	4283.5
35°	5899.4	5856.7	5572.0	5076.7	4648.8	4456.3	4451.3	4527.0	4619.2	4512.2	4355.9
37.5°	6621.9	6577.4	6235.1	5678.9	5061.8	4719.6	4689.9	4716.3	4755.8	4559.9	4456.3
40°	7344.3	7291.6	6992.1	6352.0	5567.0	5068.4	4991.1	4872.6	4856.1	4716.3	4650.4
42.5°	8060.1	8012.4	7861.0	7107.3	6172.6	5409.1	5290.6	5086.5	5149.1	5065.1	5007.5
45°	8782.5	8785.8	8624.5	7954.8	6903.3	6037.7	5878.1	5558.8	5706.9	5675.6	5708.6
47.5°	9422.7	9414.4	9356.8	8777.6	7810.0	6847.3	6641.6	6271.4	6524.8	6640.0	6891.7
50°	10043.0	10038.1	10041.4	9710.6	8863.2	7810.0	7582.9	7194.5	7765.5	8165.4	8616.3
52.5°	10931.7	10959.6	10760.5	10673.3	10143.4	8947.1	8697.0	8295.4	9231.8	9862.0	10742.4
55°	11823.6	11800.5	11644.2	11734.7	11482.9	10293.2	10031.5	9712.3	10864.2	11553.7	12876.8
57.5°	12348.5	12356.8	12516.4	12959.0	13136.8	11971.7	11734.7	11487.9	12699.0	13187.8	14775.8
60°	12820.8	12858.7	13317.8	14153.7	14635.9	14033.6	13823.0	13582.7	14382.5	14576.7	16424.7
62.5°	12968.9	13085.7	13887.2	15137.8	16097.2	16360.5	16098.8	15568.9	15985.3	15909.6	17542.0
65°	12230.0	12389.7	13826.3	15506.4	17402.1	18568.9	18402.7	17418.6	17351.1	16895.3	17724.7
67.5°	10285.0	10444.6	12289.3	14733.0	17941.9	20481.0	20314.8	18768.0	18180.5	16987.4	16342.4
70°	7525.3	7625.7	9389.7	12404.5	16857.4	21122.8	21180.4	19426.2	17884.3	15735.2	13418.2
72.5°	4336.1	4558.3	5794.1	8726.6	13772.0	19500.3	19900.1	18057.1	16011.6	13126.9	9381.5
75°	1864.5	1869.4	2679.0	4813.4	9327.2	15674.3	16061.0	14968.3	12574.0	9077.1	5009.2
77.5°	887.0	903.4	1178.2	2149.1	5134.2	10829.6	11872.9	10574.6	8042.0	4360.8	1892.4
80°	576.0	587.5	720.8	1066.3	2517.8	6279.6	7006.9	6100.2	3547.9	1558.4	816.2
82.5°	348.9	352.2	482.2	651.7	1385.6	2843.6	3352.1	2647.8	1513.9	933.1	480.5
85°	212.3	213.9	292.9	403.2	840.9	982.4	1008.7	1000.5	888.6	610.5	256.7
87.5°	102.0	105.3	151.4	190.9	330.8	304.4	288.0	334.1	419.6	329.1	110.3
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°	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1	3087.1
2.5°	3083.8	3078.9	3067.4	3062.4	3059.2	3060.8	3059.2	3059.2	3060.8	3060.8	3060.8
5°	3098.6	3090.4	3072.3	3072.3	3082.2	3105.2	3126.6	3143.1	3161.2	3159.5	3159.5
7.5°	3162.8	3148.0	3126.6	3133.2	3157.9	3194.1	3231.9	3268.1	3304.3	3307.6	3306.0
10°	3256.6	3241.8	3218.8	3227.0	3266.5	3320.8	3368.5	3421.2	3460.7	3472.2	3468.9
12.5°	3363.6	3334.0	3314.2	3337.3	3399.8	3472.2	3518.3	3557.8	3585.7	3602.2	3595.6
15°	3472.2	3444.2	3421.2	3468.9	3544.6	3612.1	3635.1	3641.7	3646.6	3663.1	3659.8
17.5°	3577.5	3539.7	3531.4	3594.0	3666.4	3696.0	3682.8	3654.9	3633.5	3646.6	3645.0
20°	3671.3	3641.7	3638.4	3700.9	3728.9	3700.9	3645.0	3595.6	3557.8	3561.1	3559.4
22.5°	3760.2	3737.1	3740.4	3766.8	3722.3	3626.9	3534.7	3467.3	3426.1	3434.4	3439.3
25°	3858.9	3835.9	3844.1	3801.3	3654.9	3488.7	3355.4	3297.8	3281.3	3297.8	3309.3
27.5°	3987.3	3972.5	3967.5	3803.0	3534.7	3284.6	3133.2	3111.8	3126.6	3162.8	3180.9
30°	4125.5	4125.5	4099.2	3775.0	3370.2	3039.4	2907.8	2911.1	2962.1	3013.1	3031.2
32.5°	4258.8	4286.8	4204.5	3699.3	3157.9	2800.8	2700.4	2703.7	2748.1	2810.7	2827.1
35°	4369.0	4449.7	4295.0	3561.1	2907.8	2600.0	2524.3	2479.9	2481.6	2529.3	2542.4
37.5°	4520.4	4670.2	4347.7	3355.4	2641.2	2428.9	2343.3	2266.0	2215.0	2195.2	2195.2
40°	4783.7	5004.2	4360.8	3050.9	2389.4	2266.0	2144.2	2052.1	1953.3	1864.5	1848.0
42.5°	5229.7	5507.8	4334.5	2700.4	2162.3	2086.6	1968.1	1854.6	1718.0	1592.9	1583.1
45°	6019.6	6162.7	4263.7	2336.7	1959.9	1913.8	1798.6	1675.2	1530.4	1418.5	1410.3
47.5°	7285.0	7082.6	4169.9	2014.2	1775.6	1762.4	1673.6	1530.4	1385.6	1308.2	1300.0
50°	9133.0	8530.7	4156.8	1780.5	1627.5	1634.1	1561.7	1430.0	1303.3	1239.1	1229.3
52.5°	11357.9	10280.0	4244.0	1616.0	1497.5	1522.2	1486.0	1364.2	1252.3	1198.0	1188.1
55°	13516.9	11853.2	4296.6	1487.6	1375.7	1421.8	1426.7	1324.7	1222.7	1168.4	1161.8
57.5°	15269.4	13038.0	4063.0	1370.8	1270.4	1341.2	1377.4	1301.7	1207.9	1166.7	1160.1
60°	16488.8	13597.5	3398.1	1267.1	1193.1	1277.0	1359.3	1303.3	1244.1	1249.0	1252.3
62.5°	16877.2	13349.0	2549.0	1189.8	1140.4	1255.6	1388.9	1370.8	1309.9	1347.7	1354.3
65°	16233.8	12322.2	1848.0	1128.9	1094.3	1270.4	1477.7	1420.1	1286.9	1314.8	1314.8
67.5°	14079.7	10615.7	1438.2	1072.9	1041.7	1298.4	1566.6	1415.2	1232.5	1265.5	1235.8
70°	11168.6	8211.5	1198.0	1010.4	985.7	1257.2	1574.8	1364.2	1168.4	1175.0	1119.0
72.5°	7411.7	5399.2	1030.1	951.2	900.1	1130.5	1507.4	1298.4	1105.8	1068.0	1012.0
75°	3631.8	2692.2	898.5	877.1	788.2	984.1	1415.2	1235.8	1038.4	979.1	947.9
77.5°	1407.0	1145.3	766.8	783.3	686.2	867.2	1293.4	1147.0	949.5	868.9	844.2
80°	682.9	650.0	628.6	653.3	564.4	738.9	1181.5	1069.6	867.2	778.4	742.2
82.5°	424.6	401.5	482.2	508.5	434.4	674.7	1120.6	1003.8	763.6	645.1	615.5
85°	215.6	230.4	322.5	347.2	311.0	536.5	923.2	753.7	551.3	457.5	460.8
87.5°	82.3	110.3	169.5	182.7	166.2	283.0	508.5	439.4	353.8	240.3	222.2
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)