

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: P522818

Luminaire Tested: **GALN-SA6C-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522818
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-SA6C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 30669 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

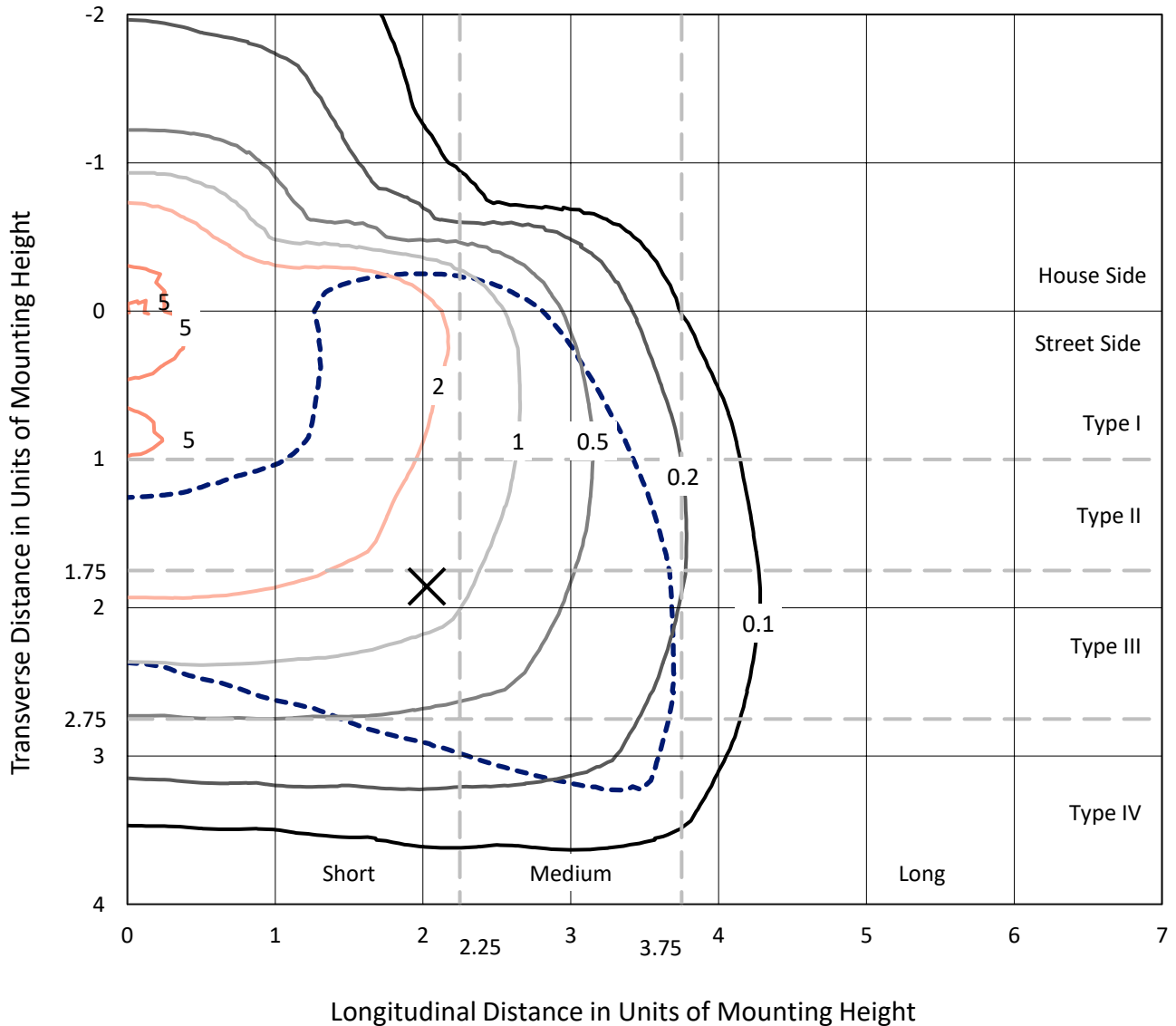
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522818
 CATALOG NUMBER: GALN-SA6C-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

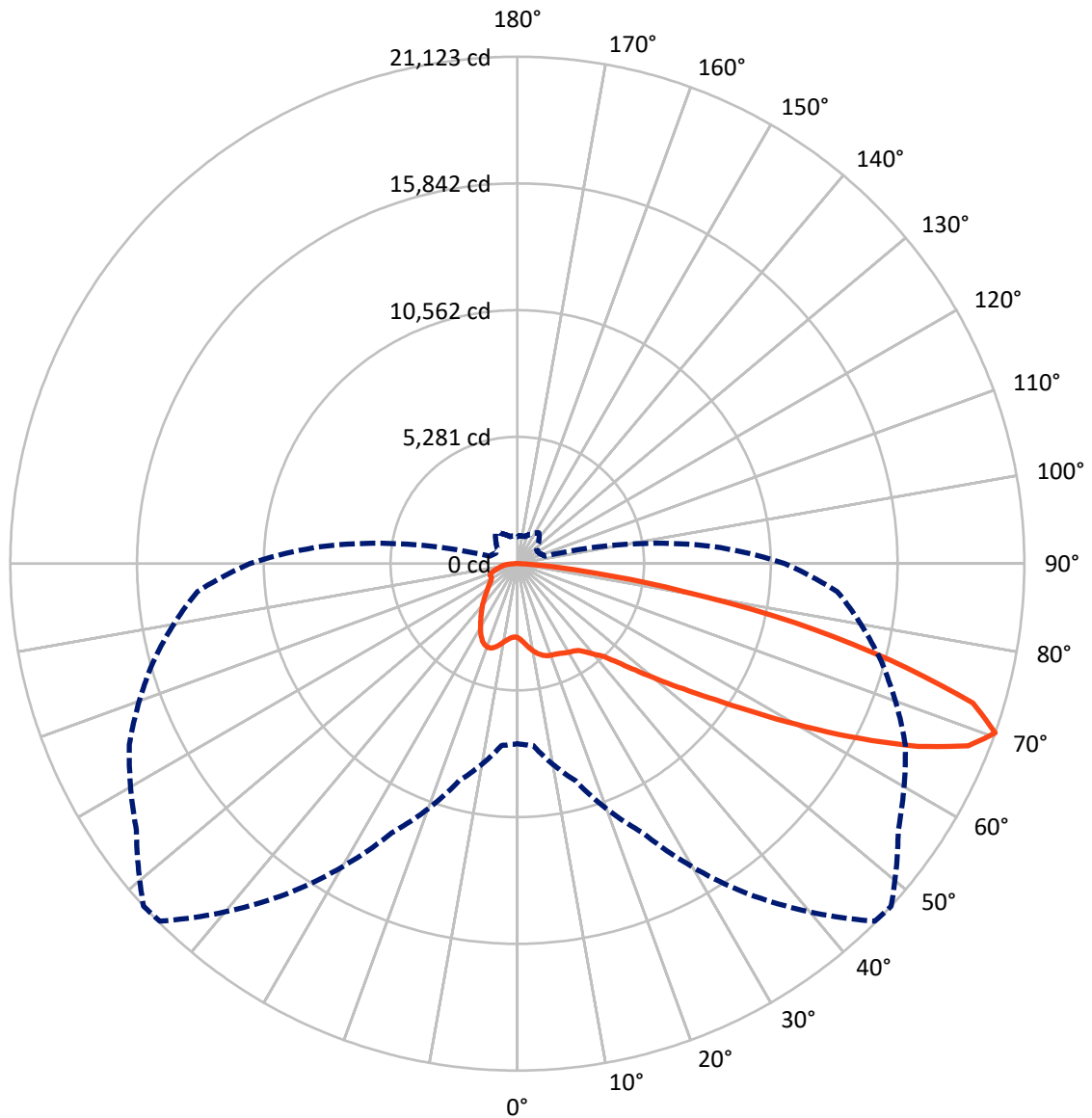
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P522818
CATALOG NUMBER: GALN-SA6C-827-U-T4W

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA6C-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6944.1	0.0	6944.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23724.9	0.0	23724.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	30669.0	0.0	30669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	1.0
10°-20°	1061.0	3.5
20°-30°	1764.4	5.8
30°-40°	2500.7	8.2
40°-50°	3691.6	12.0
50°-60°	6394.0	20.8
60°-70°	9031.7	29.4
70°-80°	5191.9	16.9
80°-90°	716.4	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°	30669.0	100.0
0°-180°	30669.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522818

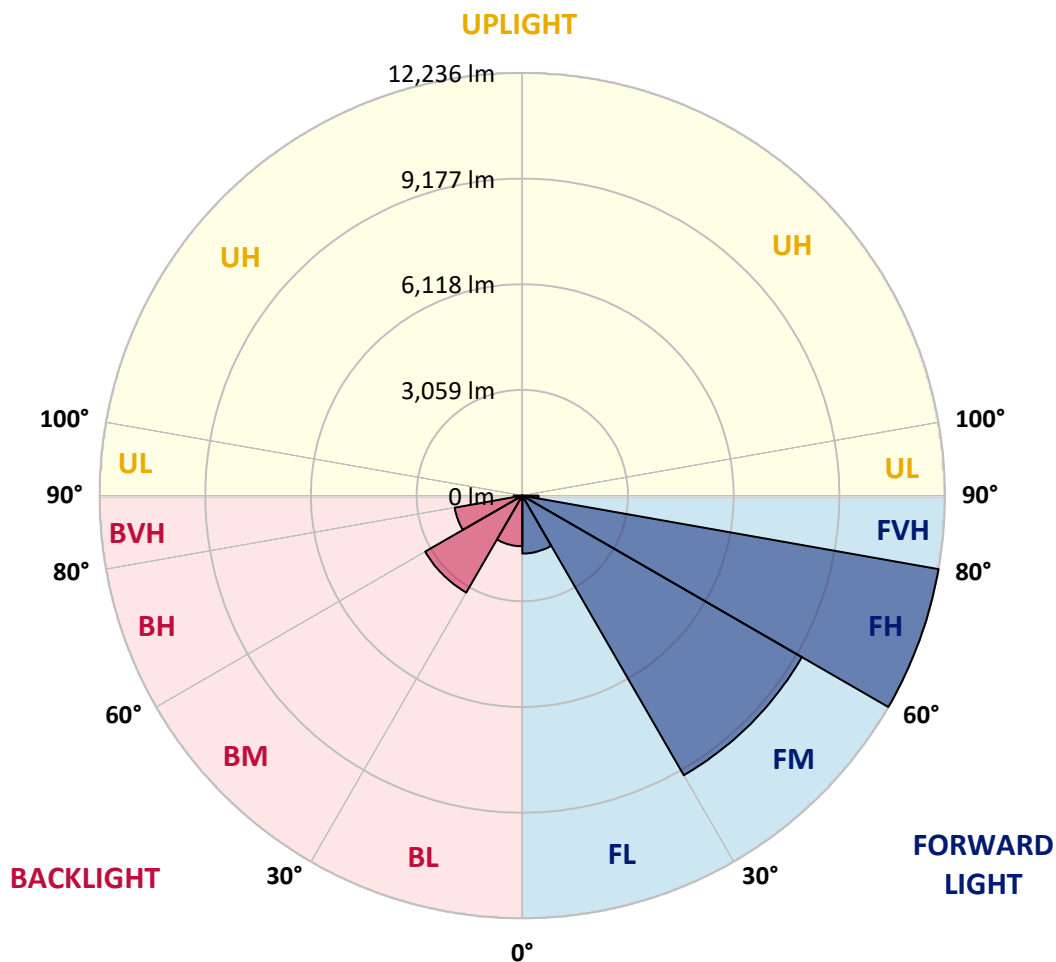
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1677.1	5.5			
FM	(30°-60°)	9344.2	30.5			
FH	(60°-80°)	12235.6	39.9			G5
FVH	(80°-90°)	467.9	1.5			G3/500
BL	(0°-30°)	1465.6	4.8	B3/2500		
BM	(30°-60°)	3242.1	10.6	B3/5000		
BH	(60°-80°)	1988.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	248.4	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-G5

Type IV Short





REPORT NUMBER: P522818

CATALOG NUMBER: GALN-SA6C-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
2.5°	3277.4	3265.9	3264.2	3239.6	3226.5	3201.9	3192.0	3169.1	3141.2	3113.3	3087.0
5°	3535.0	3535.0	3523.6	3489.1	3434.9	3379.1	3354.5	3310.2	3231.4	3167.4	3113.3
7.5°	3799.3	3802.5	3779.6	3728.7	3651.6	3561.3	3538.3	3472.7	3361.1	3267.5	3187.1
10°	4027.4	4027.4	3996.2	3927.3	3830.4	3732.0	3709.0	3635.1	3510.4	3393.9	3288.9
12.5°	4201.3	4201.3	4160.3	4070.1	3965.0	3876.4	3850.1	3779.6	3663.0	3533.4	3400.5
15°	4314.6	4306.4	4260.4	4158.7	4056.9	3979.8	3961.7	3902.7	3796.0	3664.7	3515.3
17.5°	4319.5	4316.2	4271.9	4186.6	4098.0	4045.4	4033.9	3994.6	3910.9	3786.1	3628.6
20°	4224.3	4230.9	4201.3	4140.6	4098.0	4075.0	4070.1	4056.9	3997.8	3881.3	3723.8
22.5°	4122.6	4134.1	4106.2	4073.3	4070.1	4093.0	4096.3	4099.6	4061.8	3948.6	3804.2
25°	4098.0	4106.2	4078.3	4048.7	4066.8	4127.5	4140.6	4153.8	4124.2	4029.0	3899.4
27.5°	4222.7	4216.1	4162.0	4098.0	4109.4	4191.5	4209.6	4224.3	4209.6	4127.5	4017.5
30°	4575.5	4554.2	4445.9	4258.8	4199.7	4257.1	4275.2	4316.2	4316.2	4255.5	4145.5
32.5°	5166.3	5125.3	4926.7	4559.1	4354.0	4319.5	4337.6	4404.8	4439.3	4391.7	4271.9
35°	5883.5	5840.9	5556.9	5062.9	4636.3	4444.2	4439.3	4514.8	4606.7	4500.0	4344.1
37.5°	6604.0	6559.7	6218.3	5663.6	5048.2	4706.8	4677.3	4703.5	4742.9	4547.6	4444.2
40°	7324.5	7271.9	6973.2	6334.8	5552.0	5054.7	4977.6	4859.4	4843.0	4703.5	4637.9
42.5°	8038.4	7990.8	7839.8	7088.1	6156.0	5394.5	5276.3	5072.8	5135.2	5051.5	4994.0
45°	8758.8	8762.1	8601.3	7933.3	6884.6	6021.4	5862.2	5543.8	5691.5	5660.3	5693.2
47.5°	9397.2	9389.0	9331.6	8753.9	7788.9	6828.8	6623.7	6254.4	6507.2	6622.0	6873.1
50°	10015.9	10011.0	10014.3	9684.4	8839.2	7788.9	7562.4	7175.1	7744.6	8143.4	8593.1
52.5°	10902.2	10930.1	10731.5	10644.5	10116.1	8922.9	8673.5	8273.0	9206.9	9835.4	10713.4
55°	11791.7	11768.7	11612.8	11703.0	11451.9	10265.4	10004.5	9686.1	10834.9	11522.5	12842.0
57.5°	12315.2	12323.4	12482.6	12924.1	13101.3	11939.4	11703.0	11456.9	12664.8	13152.2	14735.9
60°	12786.2	12824.0	13281.8	14115.5	14596.4	13995.7	13785.7	13546.1	14343.7	14537.3	16380.3
62.5°	12933.9	13050.4	13849.7	15096.9	16053.7	16316.3	16055.4	15526.9	15942.1	15866.6	17494.7
65°	12197.0	12356.2	13788.9	15464.6	17355.2	18518.7	18353.0	17371.6	17304.3	16849.7	17676.8
67.5°	10257.2	10416.4	12256.1	14693.2	17893.5	20425.8	20260.0	18717.3	18131.4	16941.6	16298.3
70°	7505.0	7605.1	9364.4	12371.0	16811.9	21065.8	21123.2	19373.8	17836.0	15692.7	13381.9
72.5°	4324.4	4546.0	5778.5	8703.0	13734.8	19447.6	19846.4	18008.3	15968.4	13091.5	9356.2
75°	1859.4	1864.3	2671.8	4800.4	9302.0	15632.0	16017.6	14927.9	12540.0	9052.6	4995.7
77.5°	884.6	901.0	1175.1	2143.3	5120.4	10800.4	11840.9	10546.0	8020.3	4349.0	1887.3
80°	574.4	585.9	718.8	1063.5	2511.0	6262.6	6988.0	6083.7	3538.3	1554.2	814.0
82.5°	347.9	351.2	480.9	649.9	1381.8	2835.9	3343.0	2640.6	1509.9	930.5	479.2
85°	211.7	213.3	292.1	402.1	838.6	979.8	1006.0	997.8	886.2	608.9	256.0
87.5°	101.8	105.0	151.0	190.4	329.9	303.6	287.2	333.2	418.5	328.2	110.0
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°	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8	3078.8
2.5°	3075.5	3070.6	3059.1	3054.2	3050.9	3052.5	3050.9	3050.9	3052.5	3052.5	3052.5
5°	3090.3	3082.1	3064.0	3064.0	3073.9	3096.9	3118.2	3134.6	3152.7	3151.0	3151.0
7.5°	3154.3	3139.5	3118.2	3124.8	3149.4	3185.5	3223.2	3259.3	3295.4	3298.7	3297.1
10°	3247.8	3233.1	3210.1	3218.3	3257.7	3311.8	3359.4	3412.0	3451.3	3462.8	3459.5
12.5°	3354.5	3325.0	3305.3	3328.3	3390.6	3462.8	3508.8	3548.2	3576.1	3592.5	3585.9
15°	3462.8	3434.9	3412.0	3459.5	3535.0	3602.3	3625.3	3631.9	3636.8	3653.2	3649.9
17.5°	3567.9	3530.1	3521.9	3584.3	3656.5	3686.0	3672.9	3645.0	3623.7	3636.8	3635.1
20°	3661.4	3631.9	3628.6	3690.9	3718.8	3690.9	3635.1	3585.9	3548.2	3551.4	3549.8
22.5°	3750.0	3727.1	3730.3	3756.6	3712.3	3617.1	3525.2	3457.9	3416.9	3425.1	3430.0
25°	3848.5	3825.5	3833.7	3791.1	3645.0	3479.2	3346.3	3288.9	3272.5	3288.9	3300.4
27.5°	3976.5	3961.7	3956.8	3792.7	3525.2	3275.7	3124.8	3103.4	3118.2	3154.3	3172.3
30°	4114.4	4114.4	4088.1	3764.8	3361.1	3031.2	2899.9	2903.2	2954.1	3004.9	3023.0
32.5°	4247.3	4275.2	4193.1	3689.3	3149.4	2793.2	2693.1	2696.4	2740.7	2803.1	2819.5
35°	4357.3	4437.7	4283.4	3551.4	2899.9	2593.0	2517.5	2473.2	2474.9	2522.4	2535.6
37.5°	4508.2	4657.6	4335.9	3346.3	2634.0	2422.3	2337.0	2259.9	2209.0	2189.3	2189.3
40°	4770.8	4990.7	4349.0	3042.7	2383.0	2259.9	2138.4	2046.5	1948.0	1859.4	1843.0
42.5°	5215.6	5492.9	4322.8	2693.1	2156.5	2081.0	1962.8	1849.6	1713.4	1588.6	1578.8
45°	6003.3	6146.1	4252.2	2330.4	1954.6	1908.7	1793.8	1670.7	1526.3	1414.7	1406.5
47.5°	7265.4	7063.5	4158.7	2008.8	1770.8	1757.7	1669.1	1526.3	1381.8	1304.7	1296.5
50°	9108.4	8507.7	4145.5	1775.7	1623.1	1629.7	1557.5	1426.2	1299.8	1235.8	1225.9
52.5°	11327.2	10252.3	4232.5	1611.6	1493.4	1518.1	1482.0	1360.5	1248.9	1194.8	1184.9
55°	13480.4	11821.2	4285.0	1483.6	1372.0	1418.0	1422.9	1321.1	1219.4	1165.2	1158.7
57.5°	15228.2	13002.8	4052.0	1367.1	1267.0	1337.5	1373.6	1298.2	1204.6	1163.6	1157.0
60°	16444.3	13560.8	3389.0	1263.7	1189.8	1273.5	1355.6	1299.8	1240.7	1245.6	1248.9
62.5°	16831.6	13313.0	2542.1	1186.6	1137.3	1252.2	1385.1	1367.1	1306.4	1344.1	1350.7
65°	16190.0	12288.9	1843.0	1125.8	1091.4	1267.0	1473.8	1416.3	1283.4	1311.3	1311.3
67.5°	14041.7	10587.1	1434.4	1070.0	1038.8	1294.9	1562.4	1411.4	1229.2	1262.0	1232.5
70°	11138.5	8189.3	1194.8	1007.7	983.0	1253.8	1570.6	1360.5	1165.2	1171.8	1116.0
72.5°	7391.7	5384.6	1027.4	948.6	897.7	1127.5	1503.3	1294.9	1102.9	1065.1	1009.3
75°	3622.0	2684.9	896.1	874.7	786.1	981.4	1411.4	1232.5	1035.6	976.5	945.3
77.5°	1403.2	1142.2	764.8	781.2	684.4	864.9	1289.9	1143.9	946.9	866.5	841.9
80°	681.1	648.3	626.9	651.5	562.9	736.9	1178.3	1066.7	864.9	776.3	740.2
82.5°	423.4	400.4	480.9	507.1	433.3	672.9	1117.6	1001.1	761.5	643.3	613.8
85°	215.0	229.8	321.7	346.3	310.2	535.0	920.7	751.6	549.8	456.2	459.5
87.5°	82.1	110.0	169.0	182.2	165.8	282.3	507.1	438.2	352.8	239.6	221.6
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)