

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: P522872

Luminaire Tested: **GALN-SA8A-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522872
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-SA8A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 27166 lumens
Efficiency: N/A
Efficacy: 111.3 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

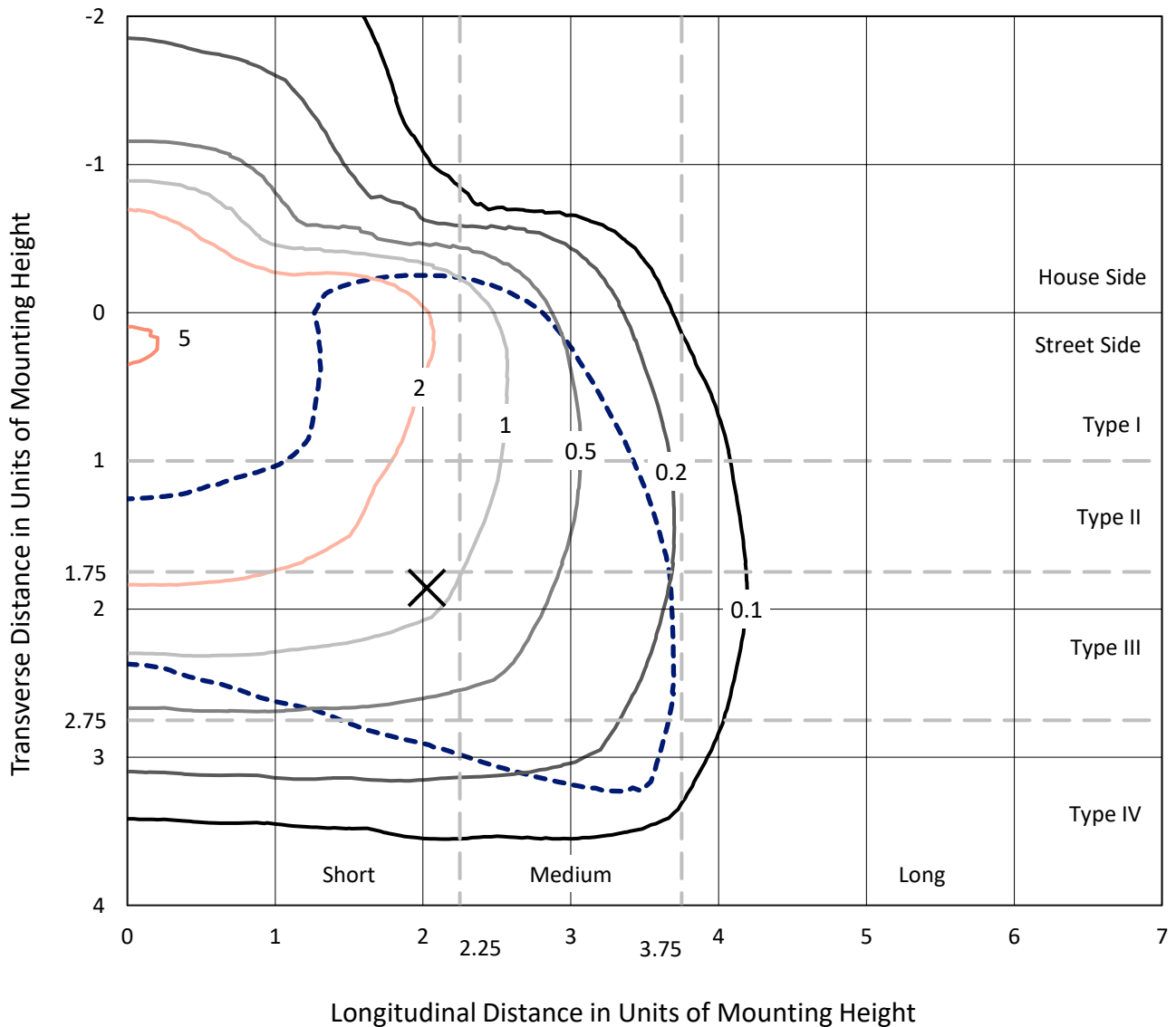
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

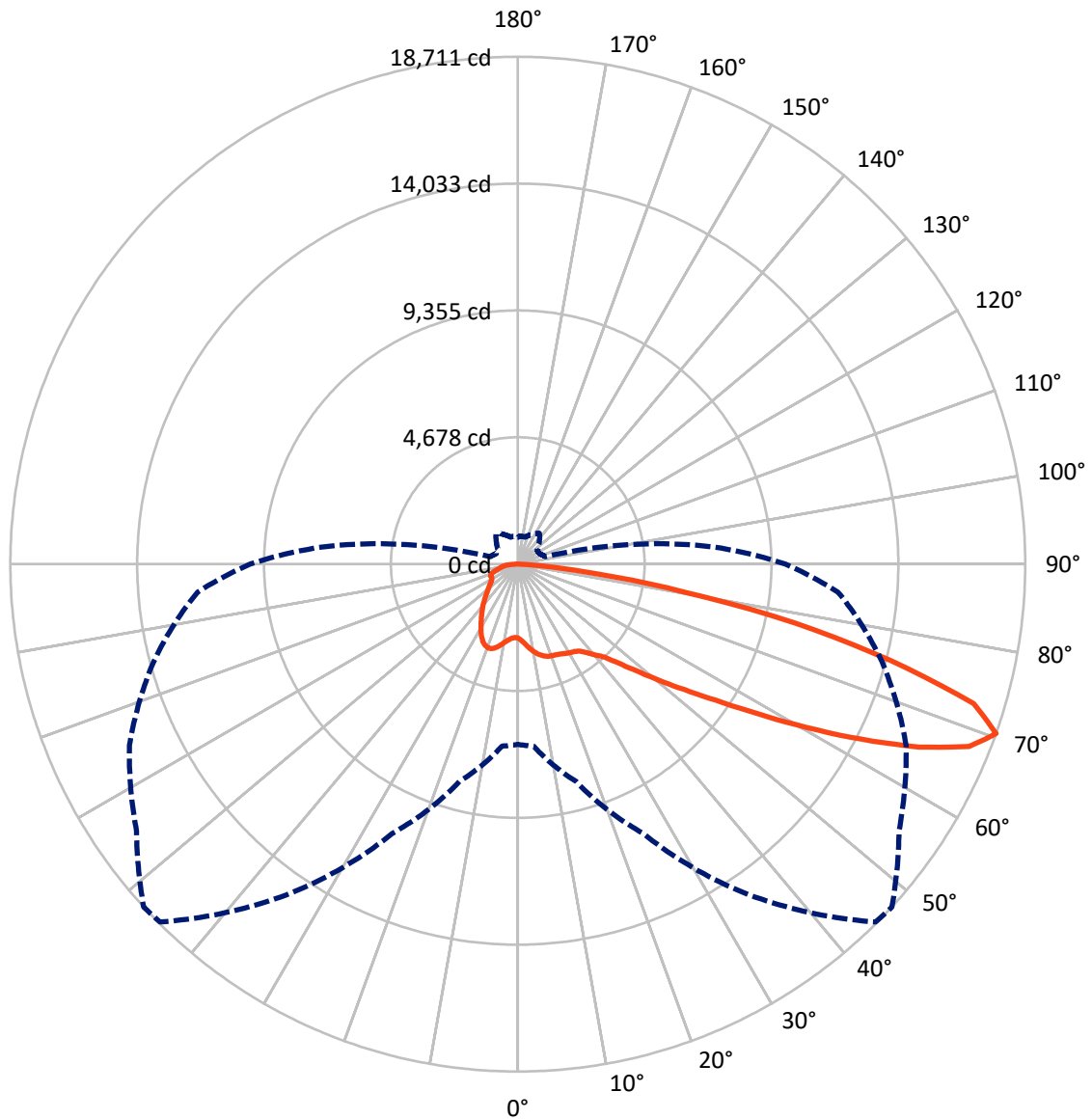
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	6150.9	0.0	6150.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21015.1	0.0	21015.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	27166.0	0.0	27166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.1	1.0
10°-20°	939.8	3.5
20°-30°	1562.8	5.8
30°-40°	2215.1	8.2
40°-50°	3269.9	12.0
50°-60°	5663.7	20.8
60°-70°	8000.1	29.4
70°-80°	4598.9	16.9
80°-90°	634.5	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°	27166.0	100.0
0°-180°	27166.0	100.0

Coefficient of Utilization



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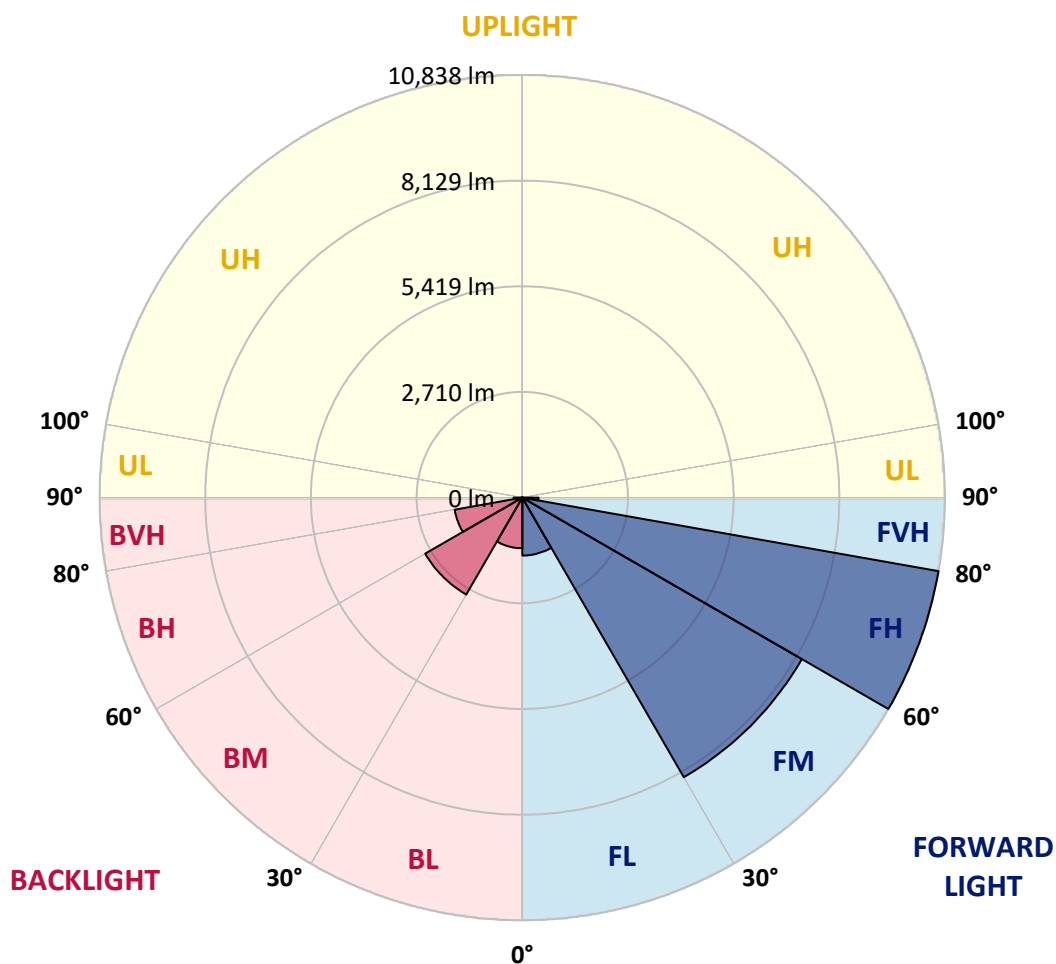
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.5	5.5			
FM	(30°-60°)	8277.0	30.5			
FH	(60°-80°)	10838.1	39.9			G4/12000
FVH	(80°-90°)	414.5	1.5			G3/500
BL	(0°-30°)	1298.2	4.8	B3/2500		
BM	(30°-60°)	2871.8	10.6	B3/5000		
BH	(60°-80°)	1760.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	220.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1
2.5°	2903.0	2892.9	2891.4	2869.6	2858.0	2836.2	2827.4	2807.1	2782.4	2757.7	2734.4
5°	3131.3	3131.3	3121.1	3090.6	3042.6	2993.2	2971.4	2932.1	2862.3	2805.6	2757.7
7.5°	3365.3	3368.2	3347.9	3302.8	3234.5	3154.5	3134.2	3076.0	2977.2	2894.3	2823.1
10°	3567.4	3567.4	3539.8	3478.7	3392.9	3305.7	3285.4	3219.9	3109.5	3006.2	2913.2
12.5°	3721.5	3721.5	3685.1	3605.2	3512.1	3433.6	3410.4	3347.9	3244.7	3129.8	3012.1
15°	3821.8	3814.5	3773.8	3683.7	3593.5	3525.2	3509.2	3456.9	3362.4	3246.1	3113.8
17.5°	3826.1	3823.2	3784.0	3708.4	3629.9	3583.4	3573.2	3538.3	3464.2	3353.7	3214.1
20°	3741.8	3747.6	3721.5	3667.7	3629.9	3609.5	3605.2	3593.5	3541.2	3438.0	3298.4
22.5°	3651.7	3661.9	3637.2	3608.1	3605.2	3625.5	3628.4	3631.3	3597.9	3497.6	3369.7
25°	3629.9	3637.2	3612.4	3586.3	3602.3	3656.1	3667.7	3679.3	3653.1	3568.8	3454.0
27.5°	3740.4	3734.6	3686.6	3629.9	3640.1	3712.7	3728.7	3741.8	3728.7	3656.1	3558.7
30°	4052.9	4034.0	3938.1	3772.3	3720.0	3770.9	3786.9	3823.2	3823.2	3769.4	3672.0
32.5°	4576.2	4539.9	4364.0	4038.4	3856.7	3826.1	3842.1	3901.7	3932.3	3890.1	3784.0
35°	5211.5	5173.7	4922.2	4484.7	4106.7	3936.6	3932.3	3999.1	4080.5	3986.0	3847.9
37.5°	5849.7	5810.4	5508.1	5016.7	4471.6	4169.2	4143.0	4166.3	4201.2	4028.2	3936.6
40°	6487.9	6441.3	6176.8	5611.3	4917.9	4477.4	4409.1	4304.4	4289.9	4166.3	4108.2
42.5°	7120.2	7078.1	6944.3	6278.5	5452.8	4778.3	4673.6	4493.4	4548.6	4474.5	4423.6
45°	7758.4	7761.3	7618.8	7027.2	6098.3	5333.6	5192.6	4910.6	5041.4	5013.8	5042.9
47.5°	8323.9	8316.6	8265.7	7754.0	6899.3	6048.8	5867.1	5540.0	5763.9	5865.7	6088.1
50°	8871.9	8867.6	8870.5	8578.3	7829.6	6899.3	6698.6	6355.6	6860.0	7213.3	7611.6
52.5°	9656.9	9681.6	9505.7	9428.7	8960.6	7903.8	7682.8	7328.1	8155.3	8712.0	9489.7
55°	10444.8	10424.5	10286.4	10366.3	10143.9	9092.9	8861.7	8579.7	9597.3	10206.4	11375.2
57.5°	10908.6	10915.8	11056.8	11447.9	11604.9	10575.7	10366.3	10148.3	11218.2	11649.9	13052.8
60°	11325.8	11359.2	11764.8	12503.3	12929.2	12397.1	12211.1	11998.8	12705.3	12876.9	14509.4
62.5°	11456.6	11559.8	12267.8	13372.6	14220.1	14452.7	14221.5	13753.4	14121.2	14054.4	15496.4
65°	10803.9	10944.9	12214.0	13698.2	15372.9	16403.5	16256.7	15387.4	15327.8	14925.1	15657.8
67.5°	9085.6	9226.6	10856.2	13015.0	15849.7	18092.7	17945.9	16579.4	16060.5	15006.5	14436.7
70°	6647.8	6736.4	8294.8	10958.0	14891.7	18659.7	18710.6	17160.9	15798.8	13900.3	11853.5
72.5°	3830.5	4026.7	5118.5	7709.0	12166.0	17226.3	17579.6	15951.4	14144.5	11596.2	8287.5
75°	1647.0	1651.4	2366.6	4252.1	8239.6	13846.5	14188.1	13222.8	11107.7	8018.6	4425.1
77.5°	783.5	798.1	1040.8	1898.5	4535.5	9566.8	10488.4	9341.5	7104.2	3852.3	1671.8
80°	508.8	519.0	636.7	942.0	2224.2	5547.3	6189.9	5388.9	3134.2	1376.7	721.0
82.5°	308.2	311.1	425.9	575.7	1224.0	2512.0	2961.2	2339.0	1337.4	824.2	424.5
85°	187.5	189.0	258.8	356.2	742.8	867.9	891.1	883.8	785.0	539.3	226.8
87.5°	90.1	93.0	133.7	168.6	292.2	268.9	254.4	295.1	370.7	290.7	97.4
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°	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1	2727.1
2.5°	2724.2	2719.9	2709.7	2705.3	2702.4	2703.9	2702.4	2702.4	2703.9	2703.9	2703.9
5°	2737.3	2730.0	2714.1	2714.1	2722.8	2743.1	2762.0	2776.6	2792.6	2791.1	2791.1
7.5°	2794.0	2780.9	2762.0	2767.8	2789.6	2821.6	2855.1	2887.0	2919.0	2921.9	2920.5
10°	2876.9	2863.8	2843.4	2850.7	2885.6	2933.6	2975.7	3022.2	3057.1	3067.3	3064.4
12.5°	2971.4	2945.2	2927.8	2948.1	3003.3	3067.3	3108.0	3142.9	3167.6	3182.1	3176.3
15°	3067.3	3042.6	3022.2	3064.4	3131.3	3190.9	3211.2	3217.0	3221.4	3235.9	3233.0
17.5°	3160.3	3126.9	3119.6	3174.9	3238.8	3265.0	3253.4	3228.7	3209.8	3221.4	3219.9
20°	3243.2	3217.0	3214.1	3269.4	3294.1	3269.4	3219.9	3176.3	3142.9	3145.8	3144.4
22.5°	3321.7	3301.4	3304.3	3327.5	3288.3	3204.0	3122.5	3062.9	3026.6	3033.9	3038.2
25°	3408.9	3388.6	3395.8	3358.0	3228.7	3081.8	2964.1	2913.2	2898.7	2913.2	2923.4
27.5°	3522.3	3509.2	3504.9	3359.5	3122.5	2901.6	2767.8	2748.9	2762.0	2794.0	2810.0
30°	3644.4	3644.4	3621.2	3334.8	2977.2	2685.0	2568.7	2571.6	2616.7	2661.7	2677.7
32.5°	3762.2	3786.9	3714.2	3267.9	2789.6	2474.2	2385.5	2388.4	2427.7	2482.9	2497.5
35°	3859.6	3930.8	3794.2	3145.8	2568.7	2296.8	2230.0	2190.7	2192.2	2234.3	2246.0
37.5°	3993.3	4125.6	3840.7	2964.1	2333.2	2145.7	2070.1	2001.7	1956.7	1939.2	1939.2
40°	4225.9	4420.7	3852.3	2695.2	2110.8	2001.7	1894.2	1812.8	1725.5	1647.0	1632.5
42.5°	4619.9	4865.5	3829.0	2385.5	1910.2	1843.3	1738.6	1638.3	1517.7	1407.2	1398.5
45°	5317.6	5444.1	3766.5	2064.3	1731.4	1690.7	1588.9	1479.9	1351.9	1253.1	1245.8
47.5°	6435.5	6256.7	3683.7	1779.3	1568.5	1556.9	1478.4	1351.9	1224.0	1155.7	1148.4
50°	8068.0	7536.0	3672.0	1572.9	1437.7	1443.5	1379.6	1263.3	1151.3	1094.6	1085.9
52.5°	10033.4	9081.3	3749.1	1427.5	1322.9	1344.7	1312.7	1205.1	1106.3	1058.3	1049.6
55°	11940.7	10471.0	3795.6	1314.1	1215.3	1256.0	1260.4	1170.2	1080.1	1032.1	1026.3
57.5°	13488.9	11517.7	3589.2	1210.9	1122.3	1184.8	1216.7	1149.9	1067.0	1030.7	1024.9
60°	14566.1	12011.9	3001.9	1119.3	1053.9	1128.1	1200.8	1151.3	1099.0	1103.4	1106.3
62.5°	14909.1	11792.4	2251.8	1051.0	1007.4	1109.2	1226.9	1210.9	1157.1	1190.6	1196.4
65°	14340.7	10885.3	1632.5	997.2	966.7	1122.3	1305.4	1254.5	1136.8	1161.5	1161.5
67.5°	12437.8	9377.8	1270.5	947.8	920.2	1147.0	1383.9	1250.2	1088.8	1117.9	1091.7
70°	9866.3	7254.0	1058.3	892.6	870.8	1110.6	1391.2	1205.1	1032.1	1037.9	988.5
72.5°	6547.5	4769.6	910.0	840.2	795.2	998.7	1331.6	1147.0	976.9	943.5	894.0
75°	3208.3	2378.3	793.7	774.8	696.3	869.3	1250.2	1091.7	917.3	865.0	837.3
77.5°	1242.9	1011.8	677.4	692.0	606.2	766.1	1142.6	1013.2	838.8	767.6	745.7
80°	603.3	574.2	555.3	577.1	498.6	652.7	1043.8	944.9	766.1	687.6	655.6
82.5°	375.1	354.7	425.9	449.2	383.8	596.0	990.0	886.8	674.5	569.9	543.7
85°	190.4	203.5	284.9	306.7	274.7	473.9	815.5	665.8	487.0	404.1	407.0
87.5°	72.7	97.4	149.7	161.4	146.8	250.0	449.2	388.1	312.5	212.2	196.2
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)