

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: P648515

Luminaire Tested: **GALN-SA6B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26362.1 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

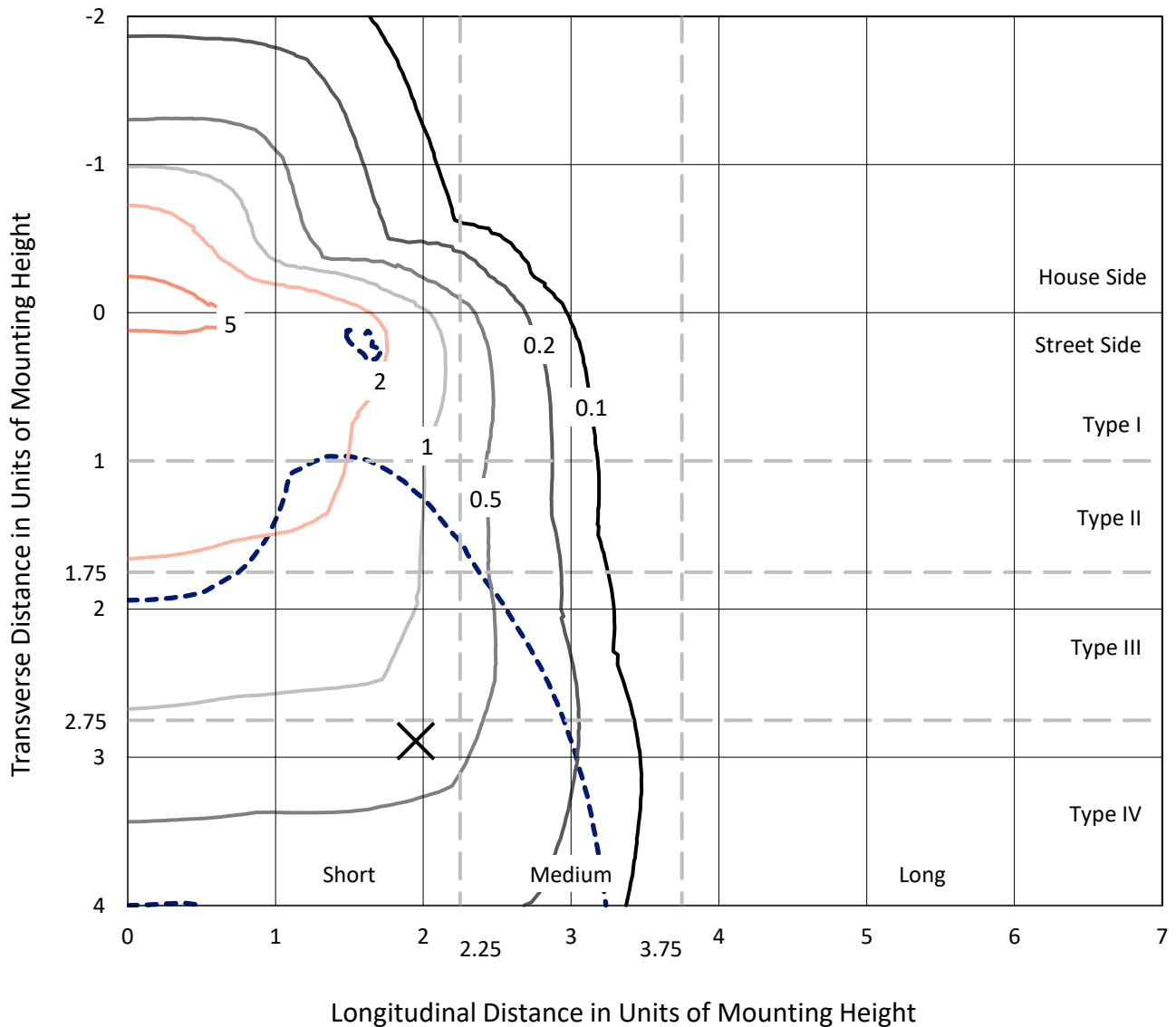
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

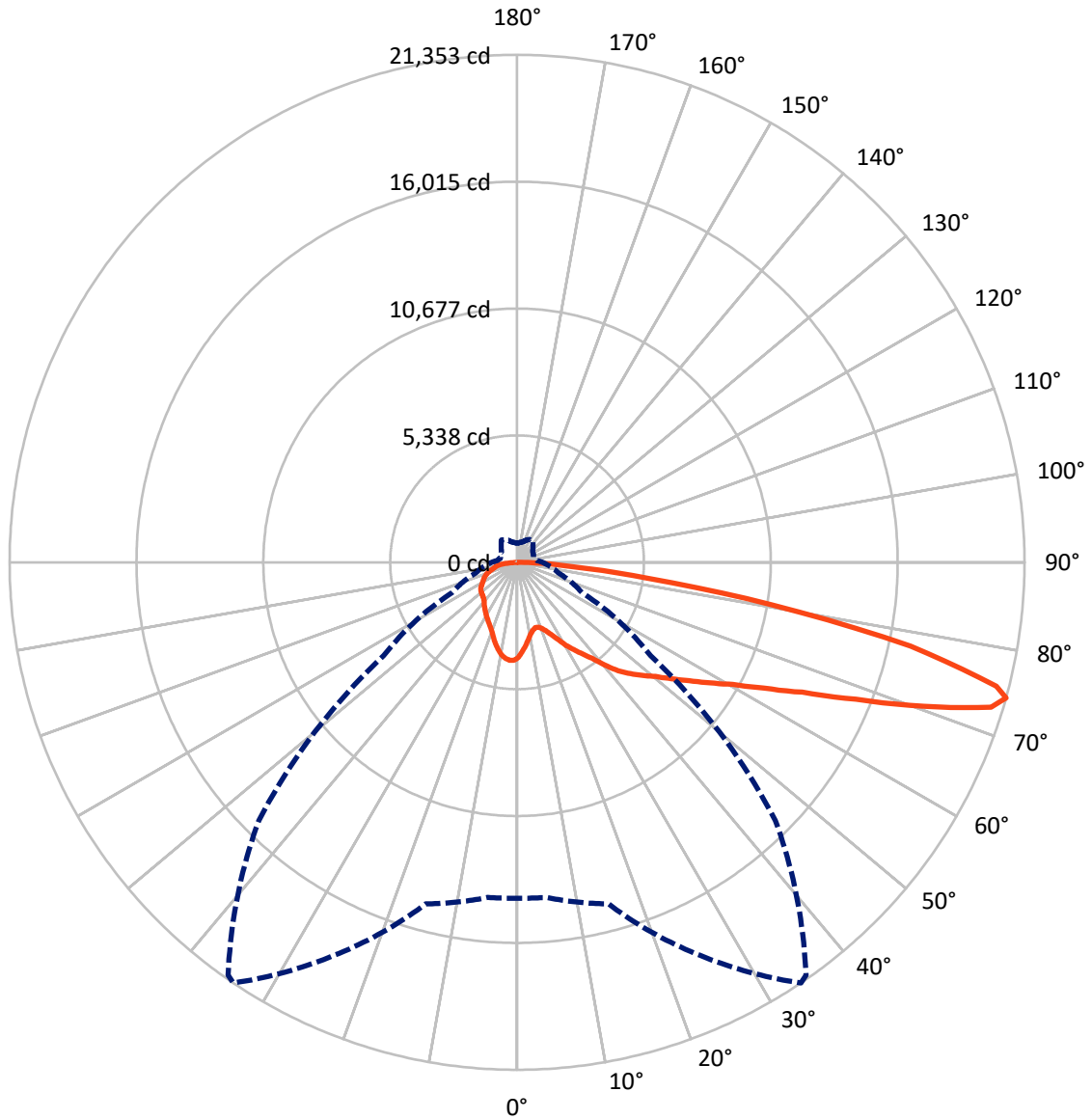
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5610.0	0.0	5610.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	20752.0	0.0	20752.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	26362.1	0.0	26362.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	1.4
10°-20°	1002.1	3.8
20°-30°	1652.1	6.3
30°-40°	2474.7	9.4
40°-50°	3597.5	13.6
50°-60°	5024.9	19.1
60°-70°	6290.9	23.9
70°-80°	5202.1	19.7
80°-90°	751.7	2.9
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°	26362.1	100.0
0°-180°	26362.1	100.0

Coefficient of Utilization



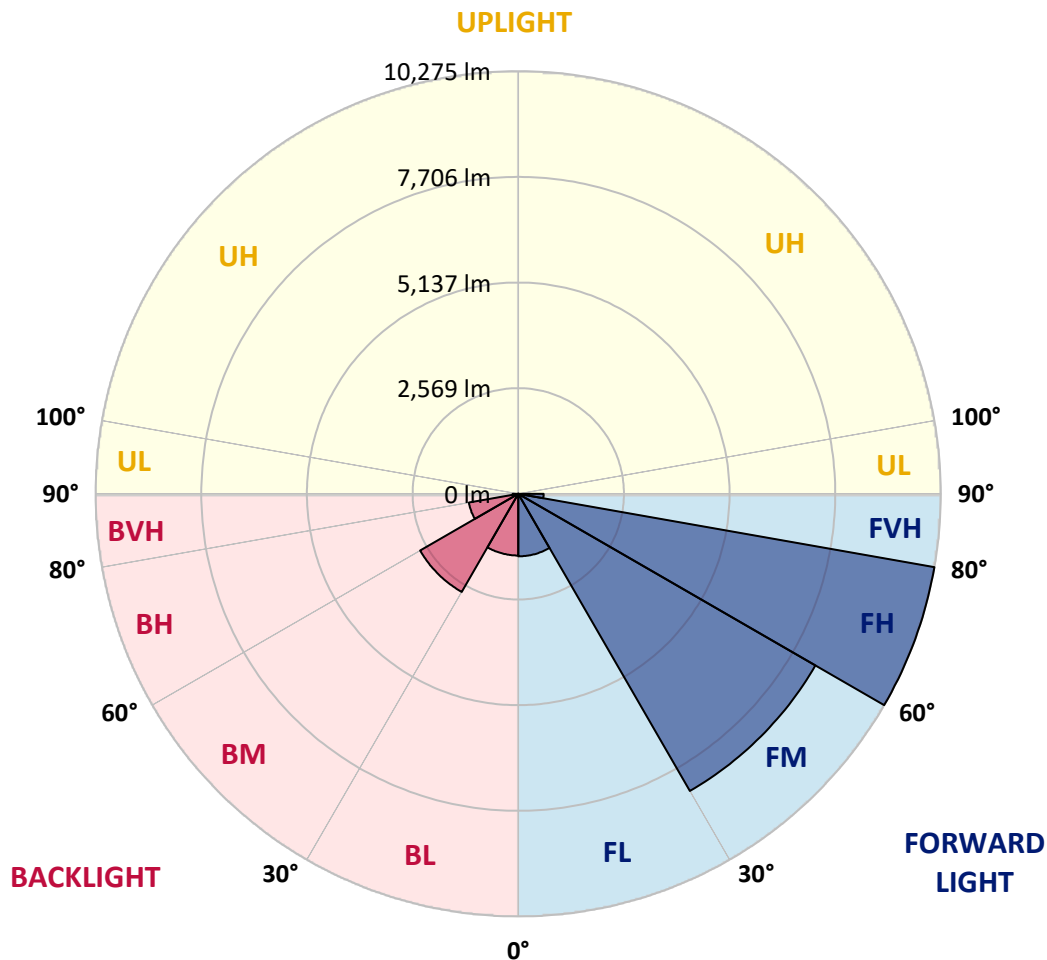
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1519.7	5.8			
FM	(30°-60°)	8342.0	31.6			
FH	(60°-80°)	10274.5	39.0			G4/12000
FVH	(80°-90°)	615.8	2.3			G4/750
BL	(0°-30°)	1500.6	5.7	B3/2500		
BM	(30°-60°)	2755.1	10.5	B3/5000		
BH	(60°-80°)	1218.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	135.9	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9
2.5°	3719.7	3738.7	3748.9	3785.4	3794.2	3805.9	3836.5	3877.5	3930.0	3976.8	4017.7
5°	3410.1	3439.3	3456.9	3489.0	3551.8	3557.6	3639.4	3732.9	3839.5	3938.8	4020.5
7.5°	3116.6	3148.7	3163.3	3221.7	3305.0	3318.1	3437.8	3585.4	3763.6	3914.0	4039.6
10°	2896.1	2912.1	2944.2	2988.1	3087.4	3096.1	3252.4	3449.6	3680.3	3902.3	4071.7
12.5°	2776.3	2785.1	2792.3	2839.1	2937.0	2950.1	3113.7	3337.1	3614.6	3911.1	4124.3
15°	2793.8	2796.7	2764.6	2773.4	2852.2	2871.2	3033.3	3262.6	3573.7	3932.9	4203.1
17.5°	2941.3	2931.1	2852.2	2811.4	2866.8	2875.6	3017.3	3233.4	3554.7	3973.9	4284.9
20°	3173.5	3158.9	3023.1	2932.6	2964.7	2972.0	3069.8	3255.3	3573.7	4041.1	4412.0
22.5°	3462.7	3456.9	3250.9	3141.4	3139.9	3139.9	3191.0	3334.2	3630.6	4133.1	4544.8
25°	3867.2	3836.5	3567.8	3426.2	3386.8	3383.8	3378.0	3464.1	3703.7	4230.9	4702.6
27.5°	4282.0	4229.5	3989.9	3772.3	3687.6	3677.4	3639.4	3648.2	3797.2	4341.9	4882.2
30°	4654.4	4620.8	4395.9	4154.9	4054.1	4030.8	3925.6	3877.5	3953.4	4541.9	5168.5
32.5°	4939.2	4918.7	4743.5	4524.4	4375.5	4371.1	4217.7	4178.3	4197.3	4784.4	5495.6
35°	5169.9	5177.3	5088.2	4898.3	4727.4	4702.6	4600.4	4550.7	4495.2	5134.9	5907.5
37.5°	5485.4	5501.4	5495.6	5332.1	5123.2	5129.0	5105.7	5023.9	4876.4	5526.3	6364.6
40°	5833.0	5844.7	5843.2	5780.4	5670.9	5676.8	5668.0	5574.5	5354.0	6024.3	6872.8
42.5°	6313.5	6258.0	6113.4	6176.1	6240.4	6268.2	6328.0	6239.0	5936.7	6555.9	7350.4
45°	6850.9	6745.8	6418.6	6447.8	6685.9	6738.4	7068.5	6945.8	6569.1	7166.3	7912.6
47.5°	7189.7	7086.1	6810.0	6804.2	7119.7	7170.7	7754.9	7709.7	7144.5	7825.0	8599.1
50°	7492.1	7477.4	7166.3	7240.9	7549.0	7624.9	8502.7	8460.3	7718.4	8602.0	9346.8
52.5°	7940.4	7822.1	7573.8	7727.2	8134.7	8233.9	9244.6	9120.5	8245.6	9288.3	10072.7
55°	8141.9	8114.2	8099.6	8232.5	8791.8	8863.4	9966.0	9681.2	8695.4	9869.6	10624.7
57.5°	8680.8	8629.8	8774.3	8864.8	9565.8	9675.4	10719.6	10266.9	9089.8	10331.1	10893.4
60°	9378.9	9351.2	9484.1	9647.7	10430.4	10597.0	11578.4	10766.3	9406.6	10563.4	10745.9
62.5°	10421.7	10418.8	10393.9	10744.4	11655.7	11809.1	12564.1	11252.6	9456.3	10389.5	9983.6
65°	11917.2	11864.6	11648.5	12031.1	13180.5	13360.1	13590.8	11524.3	9157.0	9497.2	8406.3
67.5°	13481.3	13478.4	13303.1	13799.7	15369.7	15555.1	14874.6	11464.5	8326.0	7693.6	5970.3
70°	14778.2	14715.4	14938.8	16262.0	18166.4	18381.1	15997.6	10759.0	6631.9	5080.9	3547.4
72.5°	15089.2	15092.2	15556.6	18160.5	20852.1	20885.7	16402.1	8720.3	4438.3	2802.6	1774.4
74°	14131.2	14156.0	14876.0	18255.5	21353.0	21201.1	15368.2	6853.8	3001.2	1829.9	1279.3
75°	12898.6	12742.3	13783.6	17623.1	20833.1	20669.6	14157.5	5500.0	2290.0	1461.9	1120.2
77.5°	6896.2	7055.4	8661.9	13151.3	16925.0	16736.6	9599.4	2637.5	1237.0	1017.9	806.2
80°	2455.0	2707.6	3805.9	6881.6	10851.0	10909.5	4581.4	1209.3	870.4	750.7	569.6
82.5°	1001.8	1029.6	1634.2	3053.8	5510.2	5562.8	1870.8	718.6	622.2	517.0	340.3
85°	391.4	403.1	722.9	1372.8	2351.3	2504.7	647.0	379.7	382.7	296.4	173.8
87.5°	131.5	148.9	296.4	457.1	798.9	782.8	188.4	112.4	137.3	128.5	54.0
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°	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9	4024.9
2.5°	4038.1	4065.9	4084.8	4105.3	4124.3	4130.1	4125.7	4138.9	4140.3	4141.8	4143.2
5°	4061.5	4099.5	4136.0	4156.4	4165.2	4157.9	4133.1	4119.9	4108.2	4099.5	4102.4
7.5°	4093.6	4147.6	4181.2	4190.0	4166.7	4133.1	4071.7	4023.5	3992.8	3972.4	3970.9
10°	4143.2	4195.9	4223.6	4198.8	4134.5	4052.7	3956.3	3865.7	3797.2	3776.7	3775.2
12.5°	4206.0	4265.9	4264.5	4191.5	4079.0	3932.9	3776.7	3671.6	3578.1	3531.3	3550.4
15°	4287.9	4333.1	4290.8	4159.3	3981.2	3781.1	3588.3	3445.2	3340.0	3290.4	3293.3
17.5°	4382.8	4422.2	4309.7	4102.4	3843.9	3586.8	3363.4	3227.5	3144.3	3107.8	3104.9
20°	4501.1	4512.7	4309.7	4003.1	3667.2	3360.5	3147.3	3052.3	3005.5	2986.6	2992.5
22.5°	4628.2	4604.7	4286.4	3862.9	3434.9	3123.9	2980.7	2938.4	2915.0	2912.1	2915.0
25°	4771.2	4705.5	4238.2	3673.0	3192.5	2919.4	2836.2	2843.5	2847.8	2847.8	2858.1
27.5°	4946.5	4815.1	4157.9	3433.5	2909.2	2729.5	2706.2	2757.3	2780.7	2785.1	2792.3
30°	5177.3	4934.8	4024.9	3134.1	2668.2	2558.7	2599.6	2668.2	2694.5	2710.6	2707.6
32.5°	5451.8	5066.2	3845.3	2834.7	2474.0	2439.0	2488.6	2558.7	2587.9	2596.7	2585.0
35°	5774.5	5215.2	3608.8	2554.3	2304.6	2325.0	2383.5	2405.4	2431.6	2431.6	2437.5
37.5°	6122.1	5335.0	3319.6	2297.2	2173.1	2247.6	2290.0	2269.5	2257.9	2243.2	2250.5
40°	6475.6	5424.1	2944.2	2043.2	2041.7	2167.3	2178.9	2120.5	2073.9	2059.2	2051.9
42.5°	6783.8	5479.6	2605.4	1846.0	1917.6	2088.4	2097.2	2003.7	1929.2	1885.4	1870.8
45°	7147.4	5543.8	2273.9	1682.4	1802.2	2025.6	2047.5	1922.0	1812.4	1720.4	1697.0
47.5°	7645.4	5689.8	2012.5	1555.4	1718.9	1986.2	2016.9	1854.8	1710.2	1590.4	1571.4
50°	8207.6	5890.0	1809.5	1469.2	1654.6	1951.2	1989.1	1786.1	1615.3	1482.4	1467.7
52.5°	8723.2	5998.0	1634.2	1391.8	1591.8	1886.9	1952.6	1736.5	1521.8	1374.2	1361.1
55°	9005.0	5822.8	1461.9	1315.8	1505.7	1803.6	1901.5	1667.8	1431.2	1317.3	1298.3
57.5°	9043.0	5460.6	1305.7	1234.1	1415.2	1701.4	1806.5	1584.6	1372.8	1277.9	1261.8
60°	8749.5	4920.2	1184.4	1166.9	1323.2	1586.0	1700.0	1511.6	1312.9	1234.1	1218.0
62.5°	8019.3	4333.1	1099.7	1105.5	1229.7	1464.8	1621.1	1441.4	1256.0	1185.9	1171.3
65°	6763.3	3576.6	1017.9	1042.7	1146.5	1369.9	1549.6	1383.0	1199.0	1149.4	1136.2
67.5°	4698.2	2582.0	950.7	977.0	1067.5	1273.5	1466.2	1320.2	1134.7	1108.5	1088.1
70°	2601.0	1588.9	871.9	902.6	985.8	1165.4	1372.8	1225.3	1041.3	1029.6	1000.4
72.5°	1367.0	1012.1	782.8	816.4	874.8	1026.7	1229.7	1121.6	949.3	899.7	861.7
74°	1067.5	829.5	722.9	757.9	797.4	944.9	1145.0	1047.1	883.5	825.1	795.9
75°	930.3	739.0	671.8	717.1	752.1	889.4	1079.3	994.6	847.0	791.5	765.3
77.5°	657.2	553.5	549.1	603.1	622.2	779.9	972.6	905.5	755.0	696.6	671.8
80°	461.5	414.8	435.2	468.8	495.1	689.4	902.6	782.8	619.2	550.6	541.8
82.5°	300.8	271.6	311.1	341.8	350.5	508.2	728.7	594.4	451.2	366.6	340.3
85°	138.7	135.9	178.2	173.8	172.3	248.3	432.3	347.6	260.0	194.3	182.5
87.5°	35.1	33.6	43.8	36.5	43.8	38.0	39.5	10.3	1.5	0.0	0.0
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)