

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: P383213

Luminaire Tested: **GLEON-SA5B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 26421.5 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

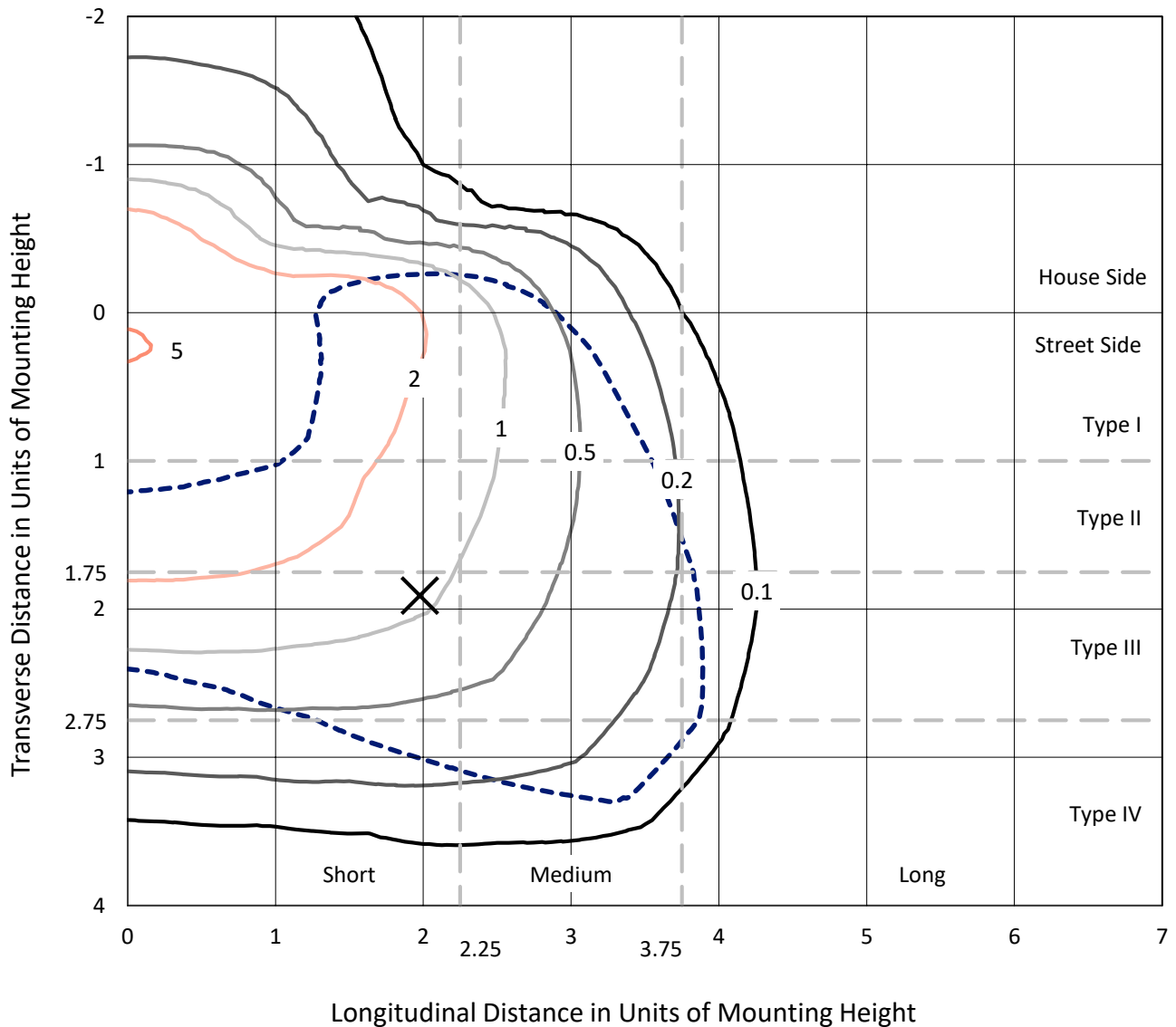
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

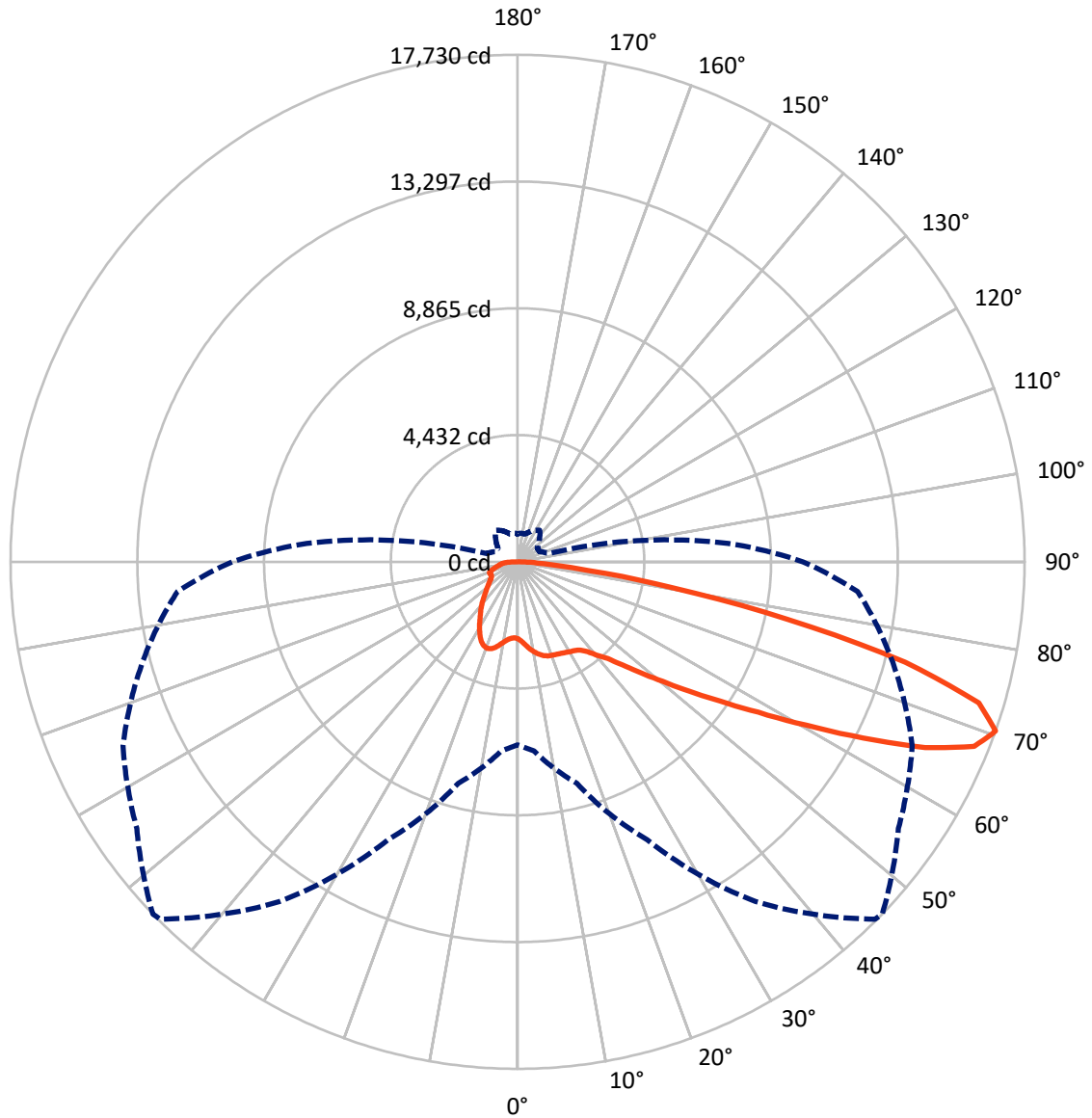
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6055.7	0.0	6055.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20365.8	0.0	20365.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	26421.5	0.0	26421.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	1.0
10°-20°	914.3	3.5
20°-30°	1524.4	5.8
30°-40°	2163.2	8.2
40°-50°	3182.0	12.0
50°-60°	5388.7	20.4
60°-70°	7649.2	29.0
70°-80°	4647.0	17.6
80°-90°	678.2	2.6
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°	26421.5	100.0
0°-180°	26421.5	100.0

Coefficient of Utilization

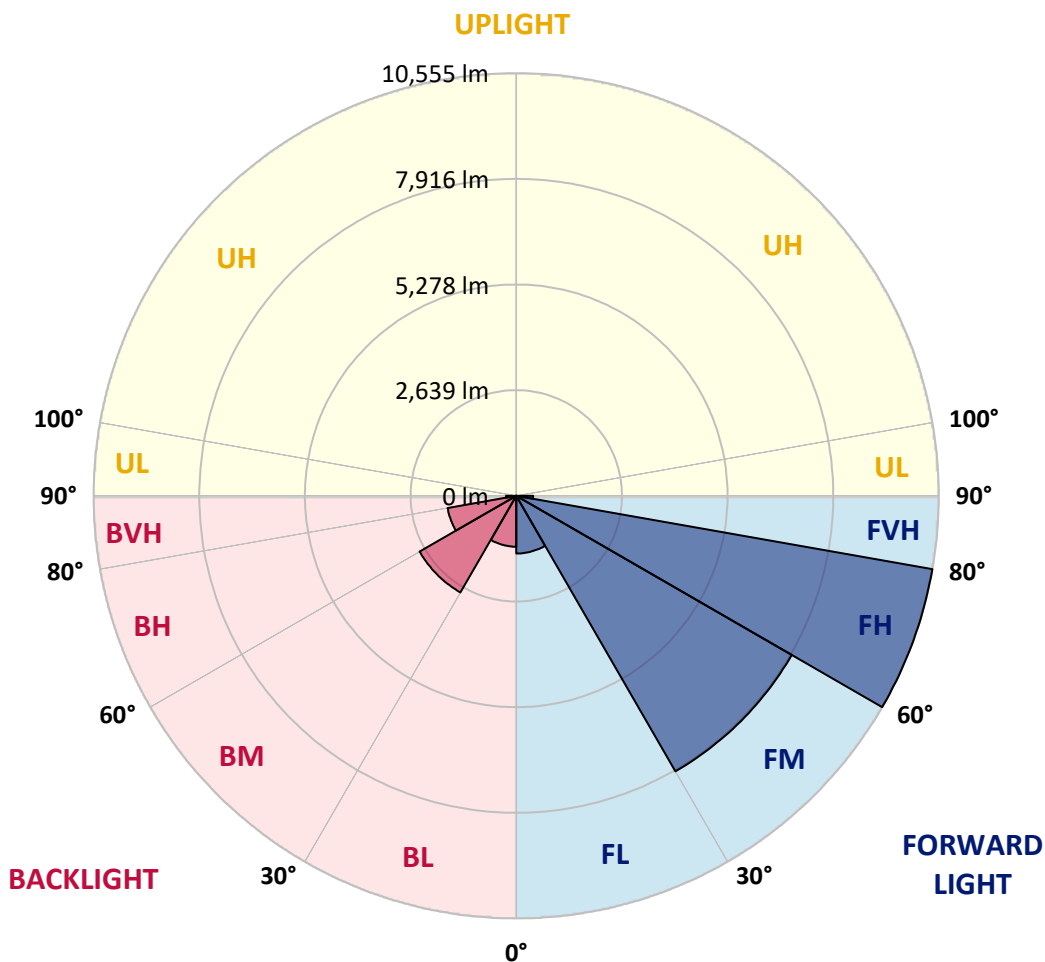


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.7	5.5			
FM (30°-60°)	7946.4	30.1			
FH (60°-80°)	10555.2	39.9			G4/12000
FVH (80°-90°)	422.4	1.6			G3/500
BL (0°-30°)	1271.4	4.8	B3/2500		
BM (30°-60°)	2787.6	10.6	B3/5000		
BH (60°-80°)	1741.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	255.7	1.0			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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8
2.5°	2826.6	2828.4	2832.0	2823.0	2797.6	2790.4	2787.7	2761.5	2744.2	2719.0	2697.3
5°	3052.6	3054.5	3049.0	3023.7	2967.6	2926.0	2922.5	2862.7	2808.4	2750.6	2707.2
7.5°	3288.6	3291.3	3274.1	3226.2	3147.5	3075.2	3070.7	2989.3	2907.1	2819.3	2754.2
10°	3497.5	3486.6	3458.6	3391.7	3298.5	3209.9	3206.3	3121.3	3026.4	2920.6	2833.8
12.5°	3636.8	3627.7	3591.5	3510.2	3408.0	3326.6	3319.4	3240.7	3148.4	3032.7	2928.7
15°	3713.6	3719.9	3671.1	3578.8	3479.4	3410.7	3404.3	3348.3	3266.0	3149.4	3030.0
17.5°	3723.5	3729.0	3681.9	3590.7	3509.2	3462.2	3459.5	3422.4	3362.8	3250.6	3125.8
20°	3665.6	3669.3	3630.4	3555.3	3502.0	3487.5	3486.6	3470.4	3426.0	3326.6	3205.5
22.5°	3581.6	3584.3	3556.3	3502.0	3483.9	3506.5	3512.9	3506.5	3474.9	3381.7	3267.8
25°	3560.7	3559.0	3530.0	3474.9	3490.2	3538.2	3546.3	3549.0	3527.3	3446.0	3347.4
27.5°	3661.2	3654.8	3599.7	3511.0	3521.0	3578.8	3589.7	3615.9	3602.4	3530.9	3437.8
30°	3951.4	3940.5	3827.5	3648.5	3599.7	3629.5	3643.1	3684.6	3687.3	3627.7	3558.0
32.5°	4441.4	4427.9	4225.4	3905.3	3732.6	3681.0	3693.7	3756.1	3789.5	3743.4	3668.3
35°	5060.8	5045.4	4779.7	4342.0	3955.0	3779.6	3788.6	3838.3	3905.3	3840.2	3740.7
37.5°	5706.5	5669.4	5413.5	4855.6	4308.6	3990.3	3990.3	3996.6	4028.3	3892.7	3825.7
40°	6348.5	6311.4	6079.9	5459.6	4766.1	4322.1	4301.3	4161.1	4135.9	4019.3	3996.6
42.5°	6945.2	6934.3	6797.9	6142.3	5303.2	4648.5	4619.6	4381.8	4387.2	4314.9	4315.8
45°	7580.0	7580.0	7468.8	6831.3	5928.9	5173.0	5144.0	4794.1	4848.3	4814.9	4895.4
47.5°	8098.1	8114.3	8099.0	7549.3	6656.7	5839.4	5787.0	5365.6	5517.5	5632.3	5866.5
50°	8627.1	8652.4	8655.1	8336.8	7536.6	6631.5	6571.8	6124.2	6463.3	6792.4	7252.7
52.5°	9394.8	9451.7	9224.7	9122.6	8614.4	7571.8	7513.1	7099.9	7665.9	8127.9	8921.0
55°	10106.4	10056.6	9894.8	9958.1	9768.2	8642.4	8598.1	8235.5	9005.9	9606.3	10636.2
57.5°	10491.6	10487.9	10650.7	10921.9	11012.4	9962.6	9925.5	9572.9	10516.9	10968.0	12246.6
60°	10943.6	10950.0	11353.2	11969.0	12341.5	11606.4	11590.1	11322.5	11984.4	12239.4	13509.8
62.5°	11007.0	11120.9	11815.3	12875.0	13585.8	13527.0	13563.1	12898.6	13297.3	13253.9	14452.9
65°	10279.1	10429.1	11686.0	13149.0	14822.7	15627.5	15660.9	14483.6	14332.6	14121.1	14790.2
67.5°	8787.1	9009.6	10374.9	12553.2	15230.5	17180.0	17227.0	15712.4	15191.6	14415.0	13978.2
70°	6394.6	6641.4	8015.8	10721.2	14503.5	17676.4	17729.8	16255.9	15224.2	13578.5	11932.8
72.5°	3862.8	4056.3	5189.3	7892.8	12241.2	16772.1	16867.2	15566.9	13899.5	11501.5	8811.5
75°	1696.3	1822.9	2509.2	4548.2	8763.6	13876.9	13995.4	13324.4	11293.6	8358.5	5208.3
77.5°	722.5	758.7	1029.0	1975.7	4954.2	9482.4	9645.2	9735.6	7662.3	4548.2	2200.9
80°	450.3	464.7	582.3	894.3	2318.4	5325.8	5501.3	5728.2	3804.9	1671.8	768.6
82.5°	274.0	290.3	387.0	540.8	1207.1	2414.2	2498.3	2658.4	1476.6	722.5	397.9
85°	164.6	176.3	236.9	341.8	687.2	949.4	948.5	1048.9	695.3	464.7	209.8
87.5°	78.6	87.8	126.6	177.2	346.3	356.2	333.7	377.9	422.3	304.7	105.8
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°	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8	2691.8
2.5°	2690.0	2686.4	2674.7	2665.6	2663.8	2658.4	2653.9	2656.6	2660.2	2661.1	2661.1
5°	2689.1	2679.1	2663.8	2657.4	2665.6	2676.4	2690.0	2708.1	2719.0	2727.1	2732.5
7.5°	2732.5	2713.5	2696.4	2692.7	2709.0	2737.9	2768.7	2806.7	2832.9	2851.0	2854.6
10°	2804.9	2781.3	2764.2	2767.8	2796.7	2838.3	2881.7	2930.6	2970.3	2994.7	2996.5
12.5°	2888.1	2865.4	2849.1	2864.5	2912.5	2963.1	3008.3	3050.8	3087.0	3111.4	3111.4
15°	2983.9	2967.6	2948.6	2983.9	3049.0	3094.2	3113.2	3134.0	3153.8	3172.0	3168.4
17.5°	3076.2	3060.8	3050.8	3092.4	3160.2	3181.0	3168.4	3153.0	3153.0	3162.9	3164.7
20°	3155.7	3142.1	3148.4	3189.2	3224.4	3202.8	3155.7	3106.9	3087.0	3092.4	3097.9
22.5°	3225.3	3219.0	3238.0	3257.0	3231.6	3155.7	3068.9	3002.8	2978.4	2976.7	2978.4
25°	3306.7	3305.8	3329.3	3295.0	3182.8	3042.6	2926.0	2861.8	2848.3	2859.1	2877.2
27.5°	3408.0	3417.9	3429.7	3304.0	3083.3	2871.8	2753.3	2709.0	2722.5	2748.8	2766.0
30°	3537.3	3564.4	3539.0	3281.4	2940.5	2676.4	2563.4	2550.8	2587.8	2624.9	2643.0
32.5°	3662.9	3705.4	3643.9	3222.6	2756.1	2469.4	2381.7	2378.1	2423.3	2459.5	2484.8
35°	3764.2	3848.3	3722.7	3106.0	2542.7	2278.6	2214.4	2190.0	2206.3	2248.8	2277.7
37.5°	3896.2	4036.4	3776.9	2927.9	2311.2	2121.3	2046.2	1990.2	1975.7	1992.9	2007.4
40°	4137.7	4323.0	3802.2	2679.1	2085.1	1964.0	1888.0	1805.7	1748.7	1707.2	1708.1
42.5°	4531.9	4696.5	3785.9	2377.1	1876.2	1810.2	1724.3	1629.4	1537.1	1443.2	1435.9
45°	5172.0	5251.7	3737.1	2057.0	1692.7	1649.3	1568.8	1473.9	1350.9	1244.2	1234.2
47.5°	6196.6	6020.2	3661.2	1777.7	1530.8	1512.7	1438.6	1329.2	1199.0	1113.1	1105.8
50°	7593.5	7129.7	3624.1	1555.2	1388.0	1393.4	1332.8	1217.1	1094.1	1030.8	1023.6
52.5°	9264.5	8421.8	3695.5	1383.4	1273.1	1292.1	1246.9	1138.4	1035.3	985.6	978.3
55°	10997.9	9760.0	3772.4	1258.6	1164.6	1201.7	1186.3	1096.8	1003.6	957.5	951.2
57.5°	12481.7	10759.2	3618.7	1157.4	1067.8	1125.8	1139.3	1070.6	987.4	945.8	938.5
60°	13415.8	11161.5	3215.3	1062.4	991.0	1065.1	1112.2	1063.4	993.7	990.1	984.6
62.5°	13858.8	11126.3	2610.5	987.4	943.1	1039.0	1132.1	1104.1	1066.1	1098.6	1101.4
65°	13659.9	10594.6	1944.0	937.7	908.7	1048.9	1191.7	1180.9	1086.8	1119.4	1123.9
67.5°	12350.6	9326.0	1439.5	894.3	870.7	1076.9	1300.3	1206.3	1046.1	1069.7	1055.3
70°	9982.5	7393.7	1110.4	845.5	831.9	1073.3	1349.1	1190.9	1001.9	1007.3	968.4
72.5°	6883.8	5041.9	903.3	800.2	775.8	978.3	1314.7	1152.9	964.8	923.2	871.6
75°	3743.4	2706.3	767.7	753.2	677.2	859.0	1251.4	1125.8	931.4	876.2	847.2
77.5°	1473.0	1123.1	666.4	689.0	592.3	758.7	1180.9	1074.2	885.2	812.9	798.4
80°	601.3	573.3	552.5	595.9	509.1	663.7	1095.9	1013.6	830.1	754.1	725.2
82.5°	340.9	356.2	429.5	470.2	413.2	611.3	1055.3	964.8	764.1	675.5	641.1
85°	174.5	208.9	299.3	337.3	303.8	519.9	972.1	844.5	613.1	517.2	519.9
87.5°	84.1	116.6	189.0	211.6	197.1	376.2	726.0	612.1	477.4	377.9	366.2
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)