

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: P647932

Luminaire Tested: **GALN-SA5A-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17899.4 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

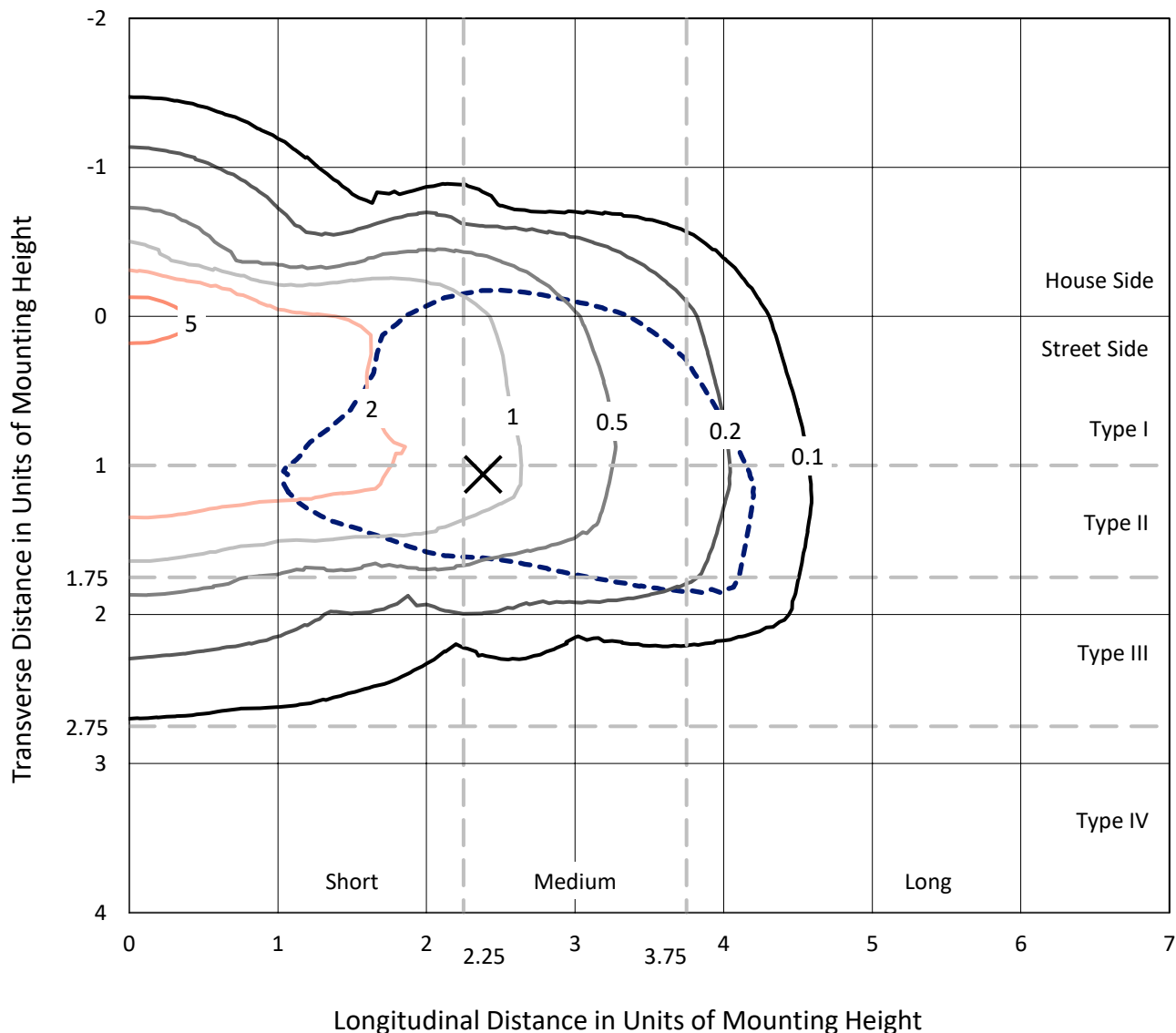
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

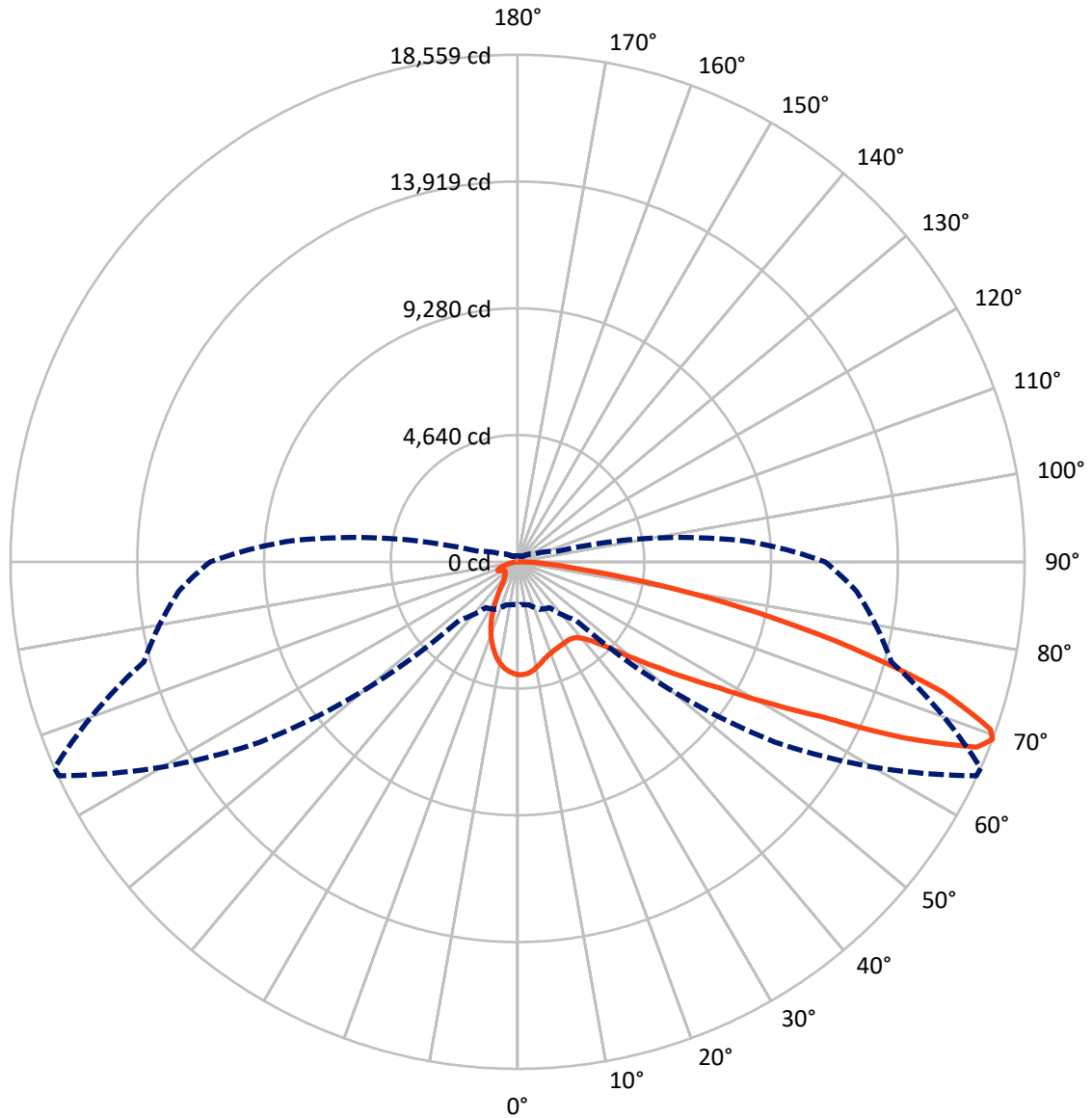
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3366.2	0.0	3366.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14533.2	0.0	14533.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	17899.4	0.0	17899.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	2.0
10°-20°	851.4	4.8
20°-30°	1159.1	6.5
30°-40°	1557.5	8.7
40°-50°	2325.6	13.0
50°-60°	3699.3	20.7
60°-70°	4550.0	25.4
70°-80°	2960.4	16.5
80°-90°	437.2	2.4
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°	17899.4	100.0
0°-180°	17899.4	100.0

Coefficient of Utilization

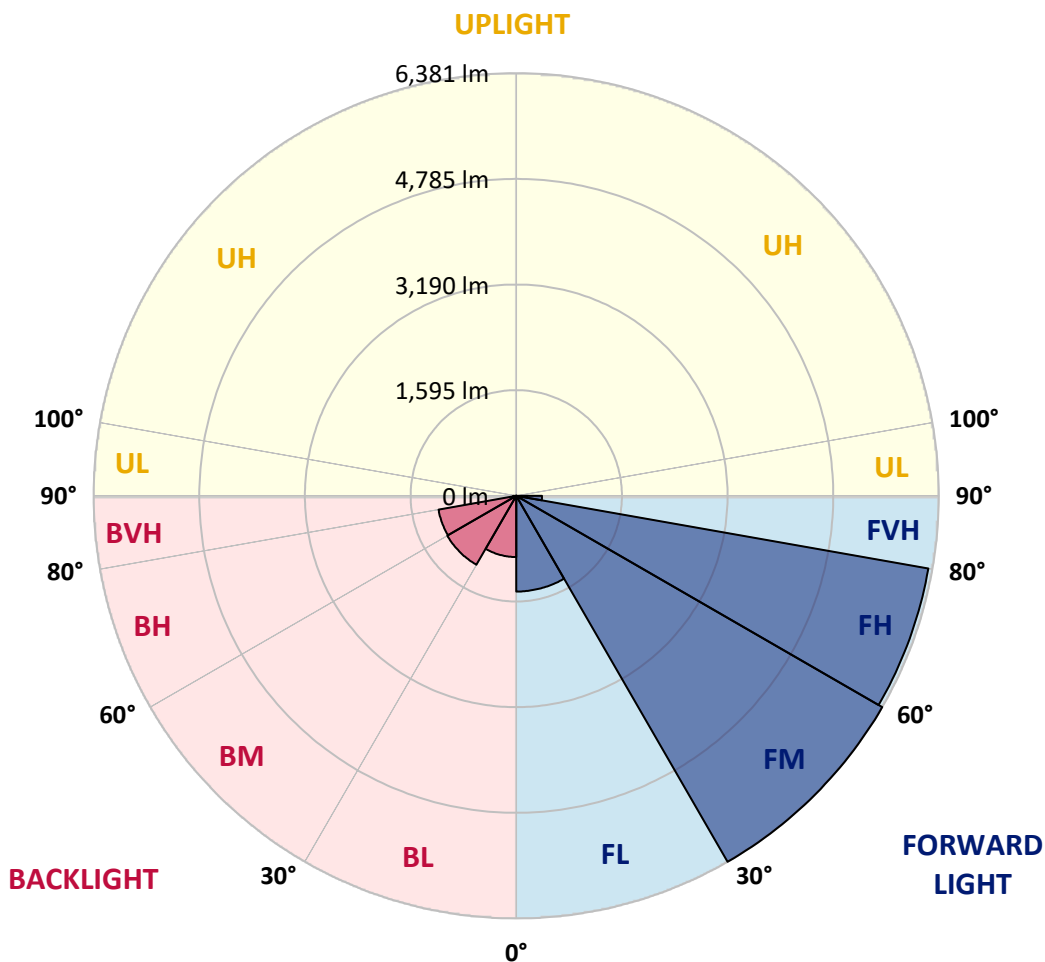


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.4	8.1			
FM (30°-60°)	6380.6	35.6			
FH (60°-80°)	6318.6	35.3			G3/7500
FVH (80°-90°)	388.7	2.2			G3/500
BL (0°-30°)	924.0	5.2	B2/1000		
BM (30°-60°)	1201.9	6.7	B2/2500		
BH (60°-80°)	1191.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	48.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5
2.5°	3988.8	4004.6	4022.4	4042.2	4079.9	4100.7	4115.6	4132.4	4134.5	4143.4	4136.4
5°	3694.4	3713.1	3739.9	3777.6	3834.1	3922.4	4013.5	4087.9	4096.8	4138.4	4150.3
7.5°	3448.5	3459.5	3481.2	3541.7	3622.0	3720.1	3852.9	4003.6	4025.4	4124.5	4159.2
10°	3248.3	3259.2	3285.0	3347.4	3426.7	3549.7	3695.4	3893.5	3911.4	4081.9	4161.3
12.5°	3098.6	3108.5	3136.3	3197.8	3288.9	3403.9	3564.5	3774.6	3800.4	4025.4	4142.4
15°	2984.6	3003.4	3026.2	3076.8	3173.0	3284.0	3439.6	3665.6	3686.4	3966.0	4129.5
17.5°	2936.0	2944.9	2960.8	3007.4	3077.8	3186.8	3343.4	3580.3	3605.2	3924.3	4126.5
20°	2938.1	2947.0	2950.0	2975.7	3026.2	3120.4	3275.1	3512.9	3542.7	3887.7	4131.5
22.5°	3005.5	3006.4	2995.5	2986.6	3006.4	3084.7	3226.5	3462.4	3497.1	3871.8	4135.4
25°	3109.5	3127.4	3111.5	3069.8	3033.2	3070.8	3207.6	3434.6	3467.4	3849.0	4130.5
27.5°	3278.0	3281.0	3268.1	3211.6	3116.4	3088.7	3199.7	3413.8	3441.6	3832.2	4105.7
30°	3504.0	3495.1	3483.2	3420.8	3271.1	3157.1	3216.6	3395.0	3423.7	3807.3	4076.0
32.5°	3733.0	3760.7	3749.9	3676.5	3482.2	3289.9	3271.1	3393.0	3416.8	3788.5	4043.3
35°	3975.8	3988.8	4040.3	4002.6	3803.3	3505.0	3373.2	3423.7	3442.5	3789.5	4020.5
37.5°	4166.2	4200.9	4321.8	4354.5	4167.2	3789.5	3538.7	3511.0	3518.9	3838.1	4029.4
40°	4396.2	4455.6	4611.2	4745.1	4622.1	4159.2	3820.3	3672.5	3682.4	3955.0	4087.9
42.5°	4687.6	4729.2	4938.4	5119.7	5099.9	4647.9	4161.3	3937.2	3942.2	4188.0	4251.5
45°	5028.6	5088.0	5322.9	5595.6	5642.1	5201.0	4653.8	4337.7	4334.7	4549.8	4556.7
47.5°	5464.7	5501.4	5734.3	6031.7	6220.0	5895.9	5251.6	4912.5	4880.8	5077.1	5020.6
50°	5866.2	5923.6	6100.1	6425.2	6894.1	6709.7	6037.6	5658.0	5583.7	5767.0	5671.9
52.5°	6034.7	6095.1	6243.8	6647.3	7471.9	7762.4	7035.8	6547.1	6423.3	6564.0	6529.3
55°	5742.2	5820.6	5959.3	6450.0	7725.7	8976.6	8381.9	7575.1	7484.9	7424.4	7434.3
57.5°	4956.2	5030.5	5217.9	5759.1	7422.4	9857.9	10303.9	8896.4	8703.0	8424.5	8472.1
60°	3772.7	3819.2	3916.4	4516.1	6523.3	10086.8	12486.7	10566.6	10443.7	9420.7	9454.4
62.5°	2679.3	2731.9	2799.2	3098.6	4775.8	9441.6	14195.6	12899.0	12459.9	10452.6	10419.9
65°	2175.8	2140.1	2221.4	2361.1	2802.2	7317.3	14580.2	16136.4	15531.7	11811.6	11357.6
67.5°	1789.2	1751.5	1831.8	2080.6	2131.2	4247.5	13194.4	18237.8	18116.9	13289.5	12310.2
69°	1584.0	1564.2	1634.6	1918.0	2045.9	3016.4	11494.4	18530.2	18559.0	14160.9	12456.9
70°	1427.4	1435.3	1503.7	1835.7	2007.2	2487.0	9824.1	18126.8	18370.6	14596.0	12298.3
72.5°	1050.7	1067.5	1162.8	1520.6	1970.6	2110.3	5846.3	15833.0	16264.2	14621.7	11250.5
75°	734.5	726.5	810.8	1144.9	1861.6	2091.5	3433.6	12244.8	12733.5	12638.3	9453.5
77.5°	480.8	493.6	561.0	808.8	1566.2	2075.7	2238.2	8687.2	9004.4	8452.3	5591.6
80°	339.0	338.0	375.7	552.1	1161.7	1994.4	1832.8	5475.6	5395.3	3321.6	1658.3
82.5°	194.3	208.1	251.8	388.6	777.1	1755.5	1686.1	2618.8	2390.9	946.6	560.1
85°	108.1	113.0	149.7	234.9	454.0	1322.3	1472.0	1191.5	1124.1	395.5	240.9
87.5°	34.7	37.7	62.5	118.9	206.2	624.4	833.7	550.1	507.5	142.7	97.2
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°	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5	4133.5
2.5°	4139.4	4151.3	4119.6	4088.8	4061.1	4022.4	3987.7	3959.0	3939.2	3936.2	3926.3
5°	4153.3	4154.3	4093.8	4012.6	3933.2	3846.0	3755.8	3691.4	3630.9	3597.2	3580.3
7.5°	4163.2	4154.3	4045.2	3913.4	3760.7	3602.2	3443.6	3316.7	3218.5	3179.9	3194.8
10°	4159.2	4131.5	3971.9	3760.7	3538.7	3301.8	3073.8	2895.4	2731.9	2647.6	2649.6
12.5°	4137.5	4091.8	3862.9	3589.3	3263.2	2946.0	2597.1	2356.2	2166.9	2054.8	2020.1
15°	4118.6	4039.3	3735.0	3356.3	2950.9	2497.9	2072.7	1775.3	1616.7	1528.5	1527.5
17.5°	4098.8	3988.8	3595.2	3109.5	2592.1	2009.3	1563.2	1336.2	1261.9	1270.7	1255.9
20°	4077.9	3929.3	3449.5	2834.9	2155.0	1498.7	1170.7	1078.5	1099.3	1139.9	1145.8
22.5°	4054.1	3865.8	3292.9	2532.6	1695.0	1128.1	949.6	935.8	989.2	1052.7	1061.6
25°	4017.5	3786.5	3095.7	2216.4	1307.5	909.0	831.6	841.6	894.1	947.6	953.5
27.5°	3966.0	3688.4	2896.4	1821.9	982.4	780.1	760.3	773.1	799.0	831.6	839.6
30°	3896.5	3577.4	2667.4	1480.9	787.1	715.7	707.8	714.6	729.5	743.5	747.4
32.5°	3827.1	3470.3	2436.5	1133.9	701.8	673.1	665.2	665.2	665.2	667.1	668.1
35°	3762.7	3369.2	2188.6	883.2	657.2	639.3	628.4	616.5	614.6	607.6	607.6
37.5°	3727.1	3277.0	1925.0	739.5	624.4	611.6	596.7	576.9	566.0	567.0	565.0
40°	3734.0	3216.6	1685.1	658.2	597.7	583.8	561.0	538.2	531.3	531.3	529.3
42.5°	3812.3	3196.8	1455.1	615.6	572.0	556.1	527.4	506.5	502.5	501.6	503.5
45°	3992.7	3245.3	1249.0	587.8	550.1	526.3	497.6	478.8	474.8	474.8	473.8
47.5°	4344.6	3402.9	1101.3	569.9	534.2	503.5	473.8	455.0	448.0	446.1	446.1
50°	4891.8	3744.9	991.2	554.1	514.4	482.7	452.0	430.2	419.3	418.3	417.3
52.5°	5652.0	4278.2	948.6	542.2	492.7	461.0	427.2	406.4	392.5	389.5	387.6
55°	6541.2	5022.6	1007.1	533.3	469.9	436.1	401.4	379.7	366.8	360.8	359.8
57.5°	7571.1	5916.7	1229.2	521.4	449.1	409.4	375.7	353.8	340.0	333.1	331.1
60°	8495.9	6835.6	1616.7	514.4	431.2	380.6	345.9	326.1	313.2	306.3	305.3
62.5°	9512.0	7711.8	2079.6	533.3	423.3	352.9	318.2	300.4	289.5	282.5	282.5
65°	10597.4	8589.1	2385.9	596.7	435.2	331.1	288.5	273.6	263.6	258.7	257.7
67.5°	11328.8	8892.4	1965.6	662.2	464.9	307.2	259.7	247.8	241.9	236.9	236.9
69°	11249.6	8508.8	1450.2	679.0	473.8	295.4	243.8	234.9	227.0	225.0	223.0
70°	10998.8	8071.6	1215.3	668.1	466.9	284.5	234.0	223.0	216.1	214.1	213.1
72.5°	9796.4	7000.1	905.0	580.8	397.5	246.8	207.2	197.2	191.3	188.3	188.3
75°	8139.1	5721.5	706.7	461.9	311.2	208.1	177.4	169.5	164.5	162.6	161.5
77.5°	4561.7	3194.8	507.5	361.8	235.9	168.5	148.7	141.7	136.8	134.8	134.8
80°	1270.7	912.9	298.4	238.9	160.6	127.9	117.9	113.0	106.1	101.1	104.1
82.5°	478.8	395.5	170.5	143.8	102.1	85.3	82.3	78.3	75.3	68.4	68.4
85°	232.9	192.3	109.1	76.3	56.5	44.6	42.6	40.6	38.7	33.7	34.7
87.5°	80.3	85.3	47.6	27.7	16.8	10.9	8.9	4.9	4.9	4.9	4.9
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)