

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: P647986

Luminaire Tested: **GALN-SA6A-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17377.9 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

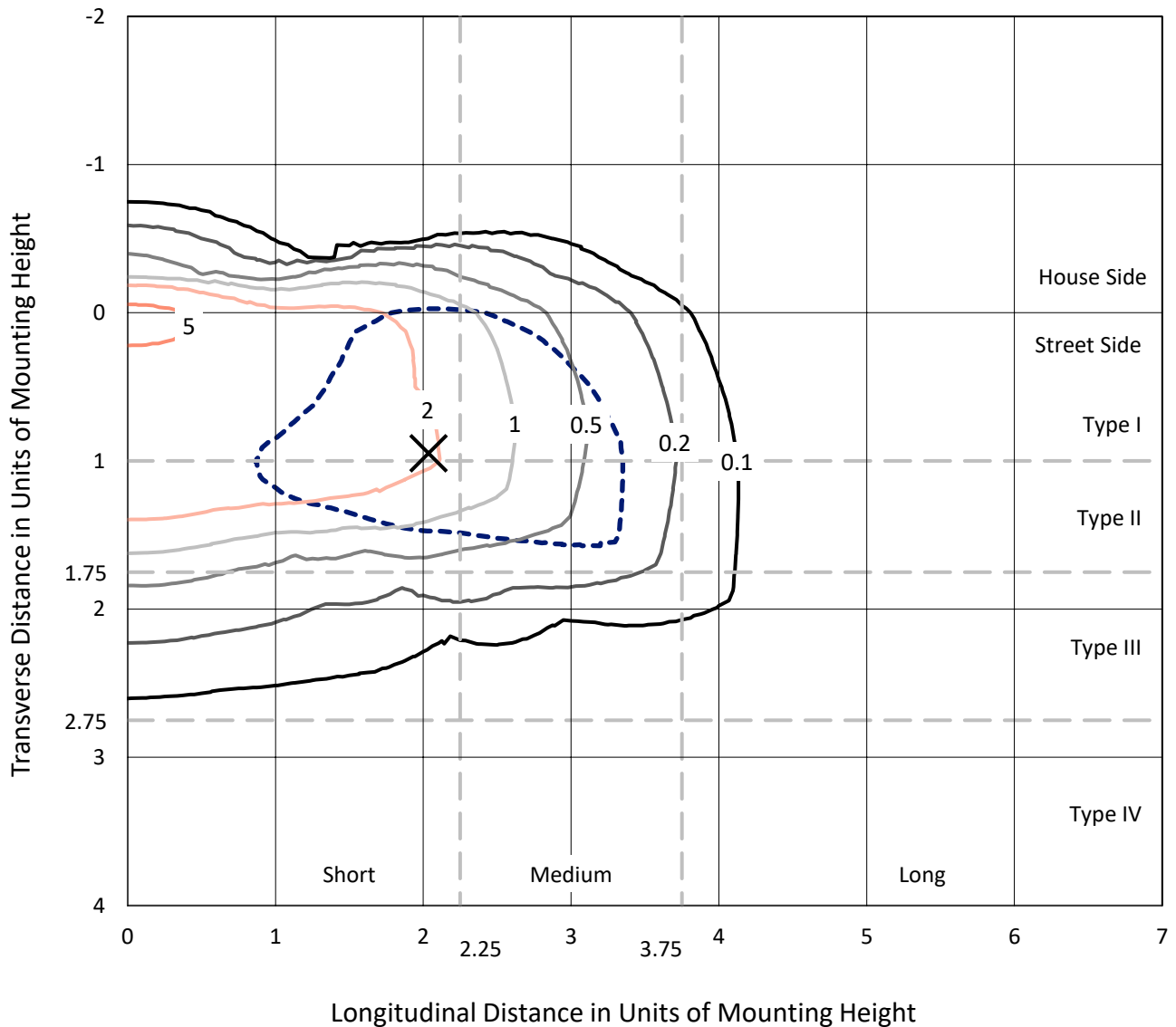
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

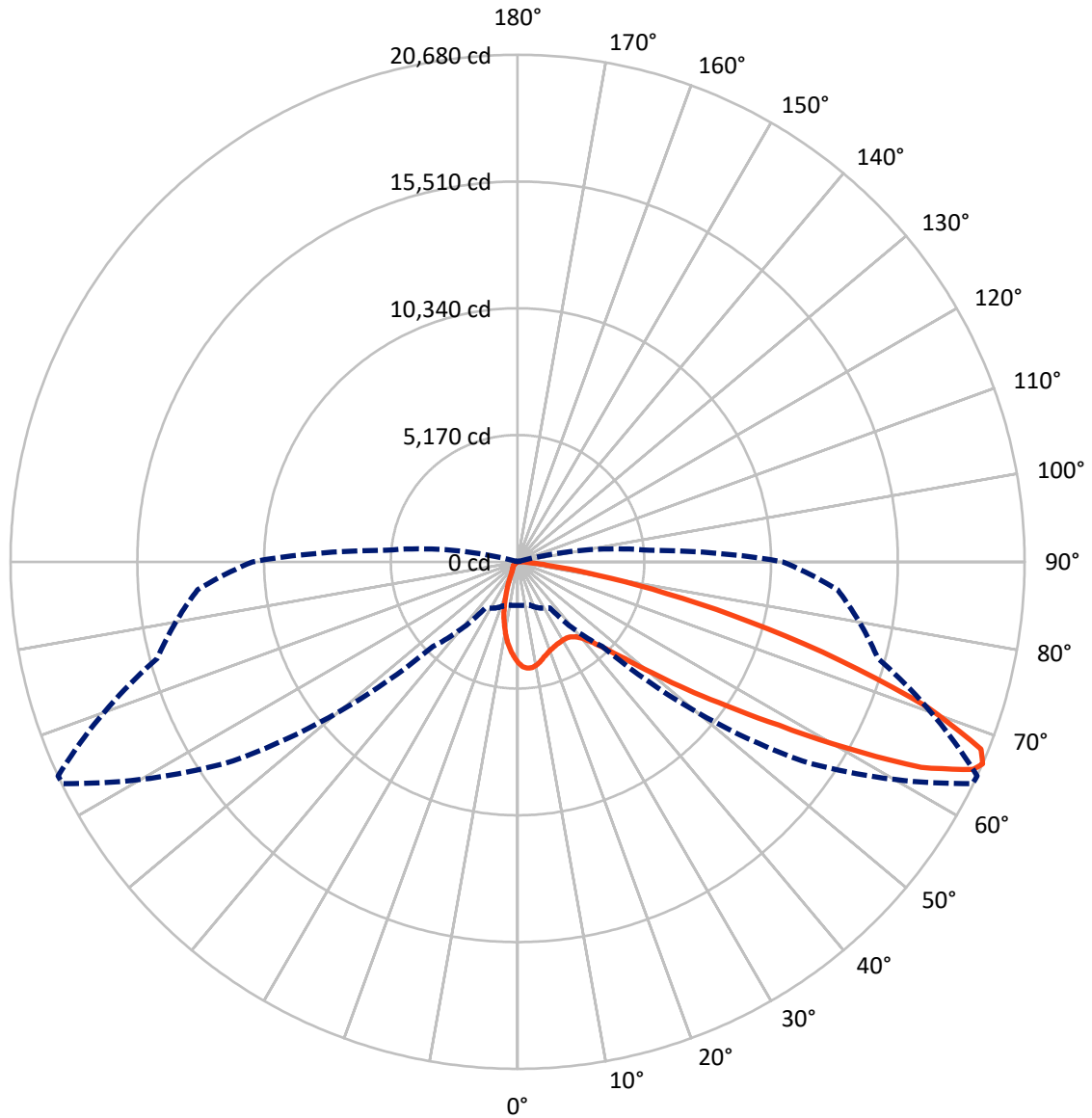
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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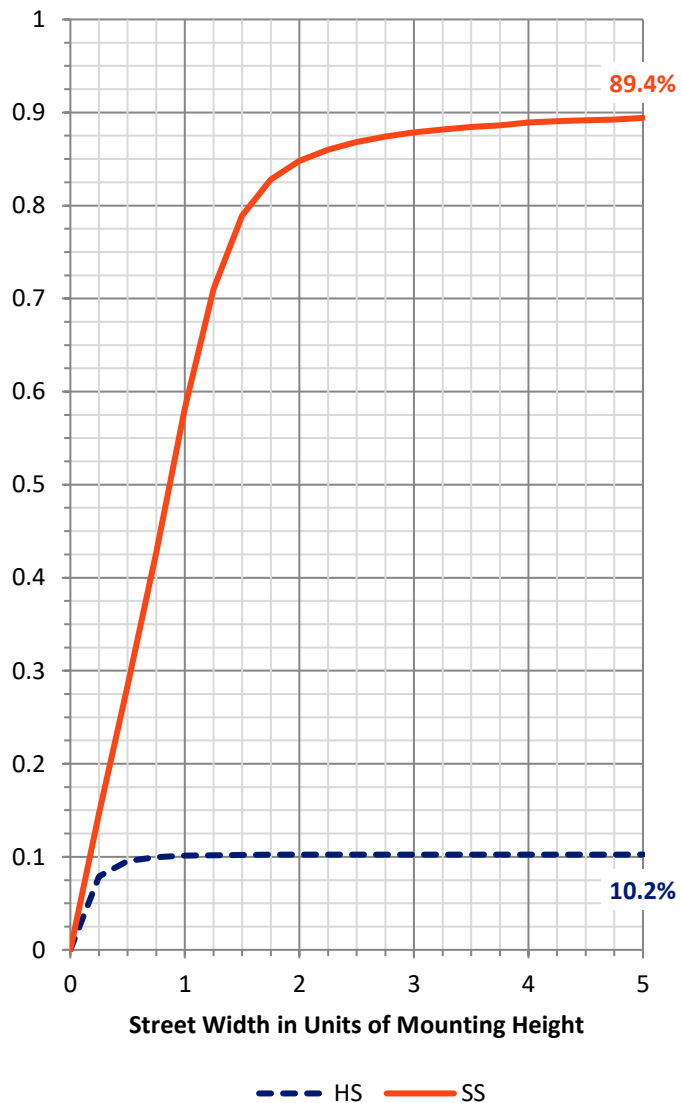
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1797.1	0.0	1797.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15580.8	0.0	15580.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	17377.9	0.0	17377.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	1.9
10°-20°	734.3	4.2
20°-30°	1051.9	6.1
30°-40°	1536.5	8.8
40°-50°	2576.4	14.8
50°-60°	4299.5	24.7
60°-70°	4563.8	26.3
70°-80°	2066.9	11.9
80°-90°	211.5	1.2
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°	17377.9	100.0
0°-180°	17377.9	100.0

Coefficient of Utilization



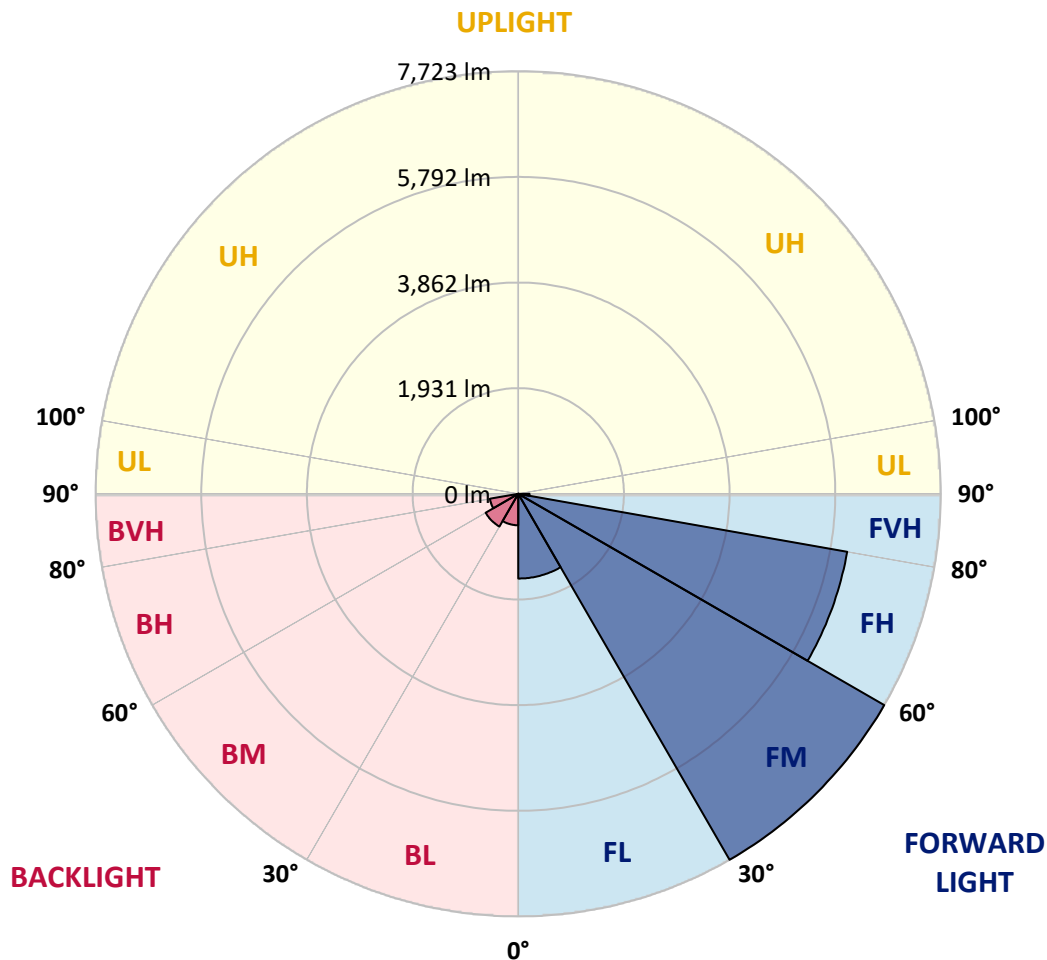
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.4	8.9			
FM (30°-60°)	7723.1	44.4			
FH (60°-80°)	6104.5	35.1			G3/7500
FVH (80°-90°)	204.8	1.2			G2/225
BL (0°-30°)	574.9	3.3	B2/1000		
BM (30°-60°)	689.2	4.0	B1/1000		
BH (60°-80°)	526.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9
2.5°	4342.8	4347.5	4353.3	4361.5	4367.4	4349.8	4325.1	4297.0	4291.2	4231.3	4158.5
5°	4110.4	4117.4	4169.1	4197.3	4260.6	4318.1	4354.5	4359.2	4356.8	4300.5	4184.4
7.5°	3779.4	3799.4	3849.8	3899.1	4017.7	4126.8	4255.9	4346.3	4352.1	4336.9	4192.6
10°	3510.6	3523.5	3549.3	3646.7	3745.3	3912.0	4092.7	4263.0	4277.1	4338.1	4185.5
12.5°	3300.5	3319.3	3351.0	3426.1	3544.6	3701.9	3907.3	4136.2	4165.6	4315.8	4165.6
15°	3153.8	3163.2	3194.9	3268.8	3383.8	3529.4	3737.1	4003.6	4029.4	4286.5	4162.0
17.5°	3084.6	3095.1	3117.4	3176.1	3271.1	3406.1	3609.2	3896.8	3929.6	4267.7	4175.0
20°	3103.3	3112.7	3113.9	3144.4	3209.0	3322.8	3515.3	3797.0	3839.3	4255.9	4196.1
22.5°	3210.1	3211.3	3197.2	3183.1	3205.4	3287.6	3457.8	3733.6	3777.0	4253.6	4220.7
25°	3369.8	3373.2	3349.8	3300.5	3255.9	3298.2	3444.9	3692.5	3731.2	4247.7	4236.0
27.5°	3590.4	3589.3	3582.2	3500.0	3373.2	3345.1	3455.5	3670.2	3703.1	4231.3	4241.8
30°	3899.1	3889.7	3874.4	3781.7	3588.1	3459.0	3500.0	3656.1	3686.7	4207.8	4226.6
32.5°	4203.1	4238.3	4236.0	4147.9	3906.2	3662.0	3592.8	3674.9	3697.2	4192.6	4204.2
35°	4557.5	4556.4	4646.8	4613.9	4331.0	3921.4	3751.2	3737.1	3754.7	4203.1	4193.7
37.5°	4886.2	4916.7	5057.6	5091.6	4833.4	4287.6	3975.4	3870.9	3876.8	4274.7	4219.5
40°	5295.8	5354.5	5564.6	5678.5	5450.8	4831.0	4306.4	4116.2	4117.4	4450.7	4317.0
42.5°	5824.0	5916.7	6112.7	6302.9	6180.8	5474.3	4802.8	4504.8	4502.4	4760.6	4540.0
45°	6466.0	6530.6	6753.6	7055.2	6977.8	6372.1	5525.9	5106.9	5076.3	5268.8	4935.5
47.5°	7020.1	7108.1	7334.6	7678.5	8030.6	7468.4	6389.7	5934.4	5914.4	6077.6	5614.0
50°	7261.9	7339.3	7577.6	8060.0	8913.3	8907.4	7676.1	7142.1	7108.1	7196.1	6663.3
52.5°	6996.6	7069.3	7309.9	7910.9	9328.7	10660.9	9540.0	8657.4	8616.3	8503.6	7916.8
55°	6088.1	6148.0	6503.6	7193.7	9169.1	11830.0	12108.2	10529.5	10369.8	9932.0	9335.8
57.5°	4847.5	4816.9	5037.6	5839.3	8232.5	12222.0	14744.3	12861.6	12576.5	11166.8	10536.5
60°	3359.2	3453.1	3542.3	4070.5	6190.2	11542.4	16384.0	15793.6	15418.1	12381.6	11686.7
62.5°	2469.5	2531.8	2590.4	2834.5	3892.1	9216.1	16673.9	18805.4	18472.1	13671.5	12784.2
65°	1953.0	1957.7	1981.2	2221.8	2564.6	5993.0	15280.7	20503.8	20418.1	14913.3	13229.0
66°	1779.4	1780.5	1817.0	2075.1	2301.7	4880.4	14164.5	20632.9	20679.8	15211.4	13098.7
67.5°	1555.2	1550.5	1603.3	1865.0	2096.2	3518.8	12166.8	20109.4	20387.6	15440.3	12630.4
70°	1205.4	1199.6	1264.1	1564.6	1930.8	2347.4	8087.0	17266.6	17715.0	14972.0	11175.1
72.5°	802.8	807.5	917.8	1234.8	1842.7	2067.0	4865.1	13135.1	13769.0	12364.0	8791.2
75°	468.3	476.5	602.1	917.8	1599.7	1970.7	2753.6	9366.3	9771.2	8537.7	5476.6
77.5°	245.3	248.8	336.8	605.7	1226.6	1829.9	1834.5	5983.6	6173.8	4149.1	2167.9
80°	130.3	126.8	180.7	365.0	843.9	1606.8	1488.2	3167.9	3293.5	1232.4	548.1
82.5°	49.3	54.0	96.2	239.4	498.8	1153.8	1281.7	1400.2	1356.9	271.2	230.0
85°	9.4	11.7	41.1	142.0	251.2	482.4	944.8	686.6	636.2	102.1	132.6
87.5°	1.2	2.3	11.7	34.1	36.4	163.2	279.4	190.1	164.4	37.6	55.2
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°	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9	4120.9
2.5°	4123.3	4091.6	3985.9	3881.5	3774.7	3678.5	3612.7	3505.9	3478.9	3440.2	3417.9
5°	4115.1	4041.1	3838.1	3616.2	3409.7	3186.7	3016.4	2852.2	2764.1	2719.5	2703.1
7.5°	4091.6	3974.2	3657.3	3309.9	2978.9	2645.6	2355.7	2135.0	1993.0	1895.6	1829.9
10°	4044.7	3882.7	3447.2	2969.5	2469.5	2029.4	1662.0	1382.6	1166.7	1098.6	1101.0
12.5°	3996.5	3780.6	3212.5	2591.6	1971.8	1416.7	1027.0	806.3	703.1	669.0	661.9
15°	3952.0	3683.2	2982.4	2225.4	1468.4	917.8	661.9	584.5	556.3	550.4	549.3
17.5°	3928.5	3592.8	2737.1	1806.4	1024.6	623.3	530.6	509.4	501.2	495.3	493.0
20°	3908.5	3514.1	2502.4	1414.3	700.7	510.6	475.4	455.4	441.3	435.4	431.9
22.5°	3894.4	3433.1	2259.4	1095.1	536.4	453.0	421.3	395.6	375.6	368.6	363.9
25°	3873.3	3344.0	2014.1	800.5	451.9	402.6	366.2	335.7	309.8	296.9	294.6
27.5°	3842.8	3243.0	1745.3	592.7	403.8	358.0	313.4	275.9	250.0	235.9	237.1
30°	3793.5	3137.3	1476.6	470.7	365.0	312.2	264.1	227.7	203.0	192.5	191.3
32.5°	3734.8	3009.5	1230.1	403.8	329.8	271.2	220.6	188.9	170.2	162.0	160.8
35°	3679.6	2880.3	978.9	362.7	293.5	233.6	185.4	158.5	144.4	137.3	138.5
37.5°	3649.1	2765.3	763.0	329.8	264.1	200.7	159.7	136.2	123.2	117.4	116.2
40°	3669.1	2671.4	606.8	300.4	231.2	172.6	137.3	117.4	104.5	96.2	96.2
42.5°	3762.9	2630.3	489.5	272.3	200.7	149.1	119.7	100.9	86.8	78.6	79.8
45°	4049.4	2673.7	409.7	246.5	172.6	129.1	103.3	83.3	70.4	64.5	63.3
47.5°	4524.7	2836.9	354.5	219.5	147.9	110.3	86.8	69.2	56.4	51.7	50.5
50°	5355.7	3173.7	313.4	192.5	125.6	93.9	71.6	55.2	44.6	39.9	39.9
52.5°	6498.9	3908.5	284.1	162.0	105.6	79.8	58.7	44.6	35.2	31.7	30.5
55°	7693.8	4683.1	268.8	136.2	88.0	65.7	47.0	35.2	27.0	23.5	22.3
57.5°	8842.8	5291.1	251.2	110.3	70.4	50.5	36.4	27.0	18.8	16.4	15.3
60°	9945.0	5782.9	213.6	88.0	55.2	36.4	27.0	18.8	12.9	10.6	10.6
62.5°	10930.9	6069.3	167.9	70.4	42.3	25.8	17.6	14.1	9.4	7.0	7.0
65°	11045.9	5697.3	126.8	54.0	30.5	16.4	10.6	10.6	7.0	4.7	4.7
66°	10814.7	5381.6	111.5	49.3	27.0	14.1	9.4	8.2	5.9	3.5	3.5
67.5°	10298.3	4842.8	96.2	42.3	22.3	10.6	7.0	7.0	4.7	2.3	2.3
70°	8898.0	3955.5	76.3	31.7	16.4	8.2	4.7	4.7	3.5	2.3	2.3
72.5°	6781.8	2953.1	62.2	23.5	11.7	5.9	3.5	3.5	3.5	2.3	2.3
75°	4090.4	1590.4	48.2	17.6	10.6	4.7	2.3	3.5	4.7	3.5	2.3
77.5°	1507.0	541.1	37.6	14.1	8.2	4.7	2.3	2.3	4.7	3.5	3.5
80°	369.7	140.9	27.0	11.7	8.2	4.7	2.3	2.3	4.7	4.7	4.7
82.5°	171.4	59.8	18.8	10.6	8.2	4.7	2.3	2.3	3.5	4.7	4.7
85°	98.6	28.2	15.3	11.7	8.2	4.7	2.3	2.3	3.5	4.7	4.7
87.5°	39.9	14.1	14.1	11.7	9.4	5.9	2.3	2.3	2.3	3.5	3.5
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)