

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: P651286

Luminaire Tested: **GALN-SA3D-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651286
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-SA3D-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 15894.9 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

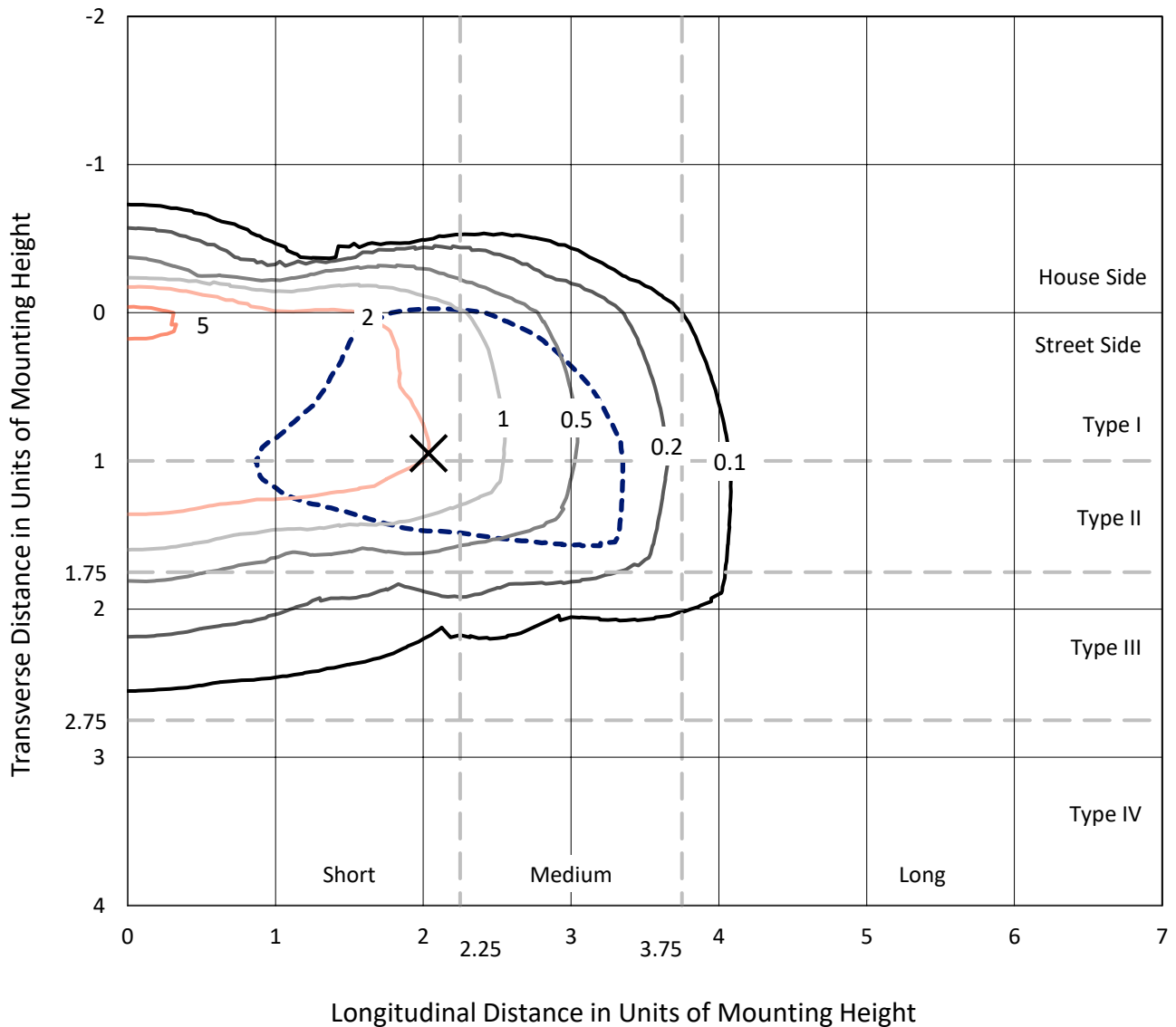
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

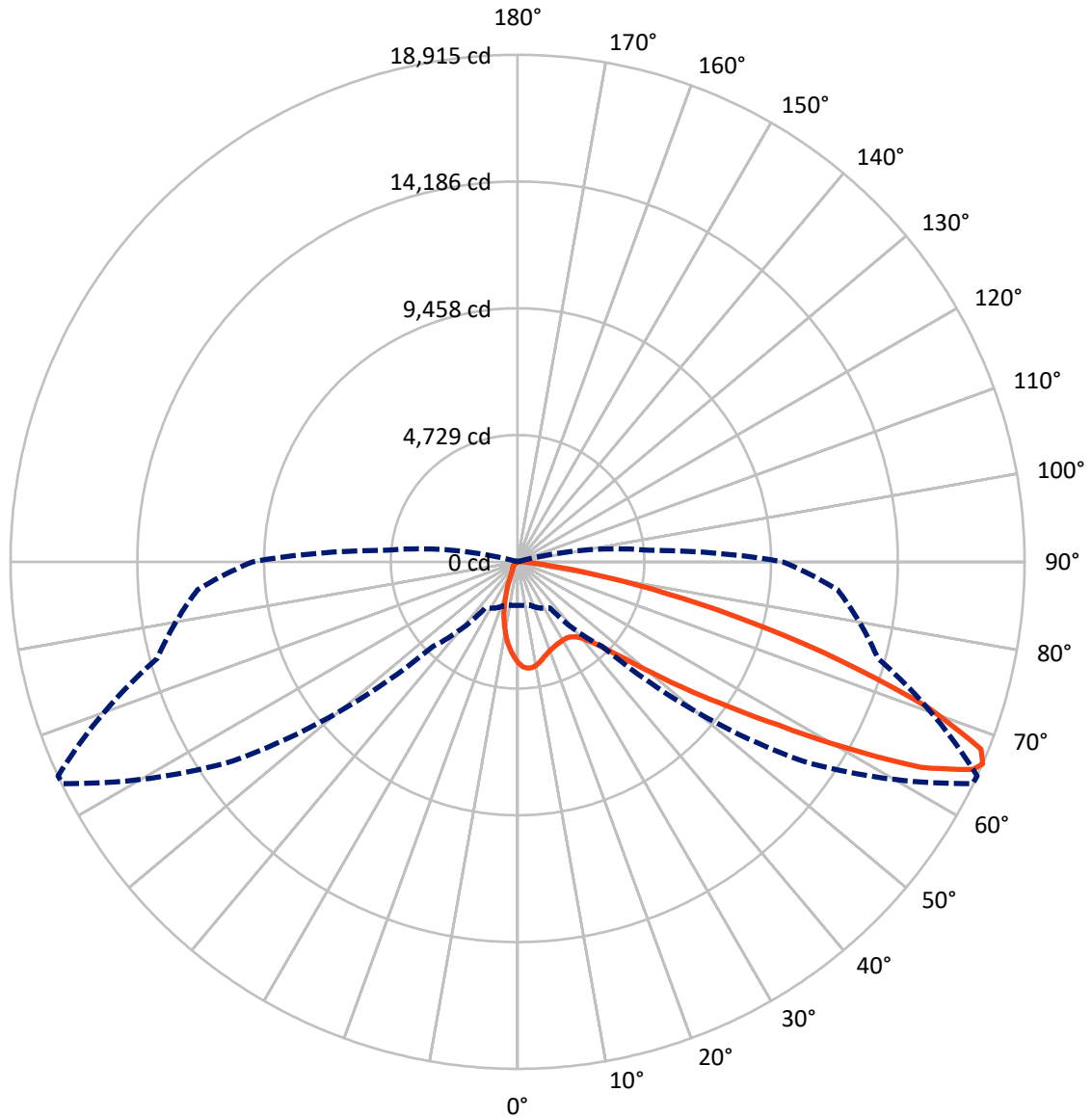
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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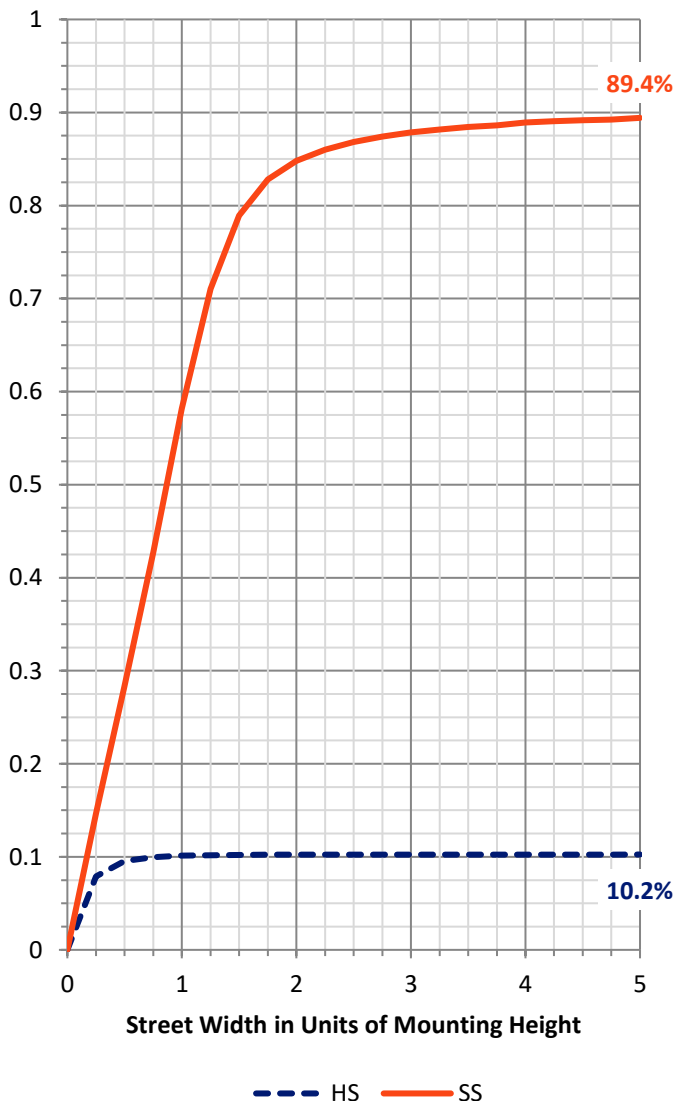
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.8	0.0	1643.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14251.2	0.0	14251.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	15894.9	0.0	15894.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	1.9
10°-20°	671.7	4.2
20°-30°	962.2	6.1
30°-40°	1405.3	8.8
40°-50°	2356.5	14.8
50°-60°	3932.6	24.7
60°-70°	4174.4	26.3
70°-80°	1890.6	11.9
80°-90°	193.5	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°	15894.9	100.0
0°-180°	15894.9	100.0

Coefficient of Utilization



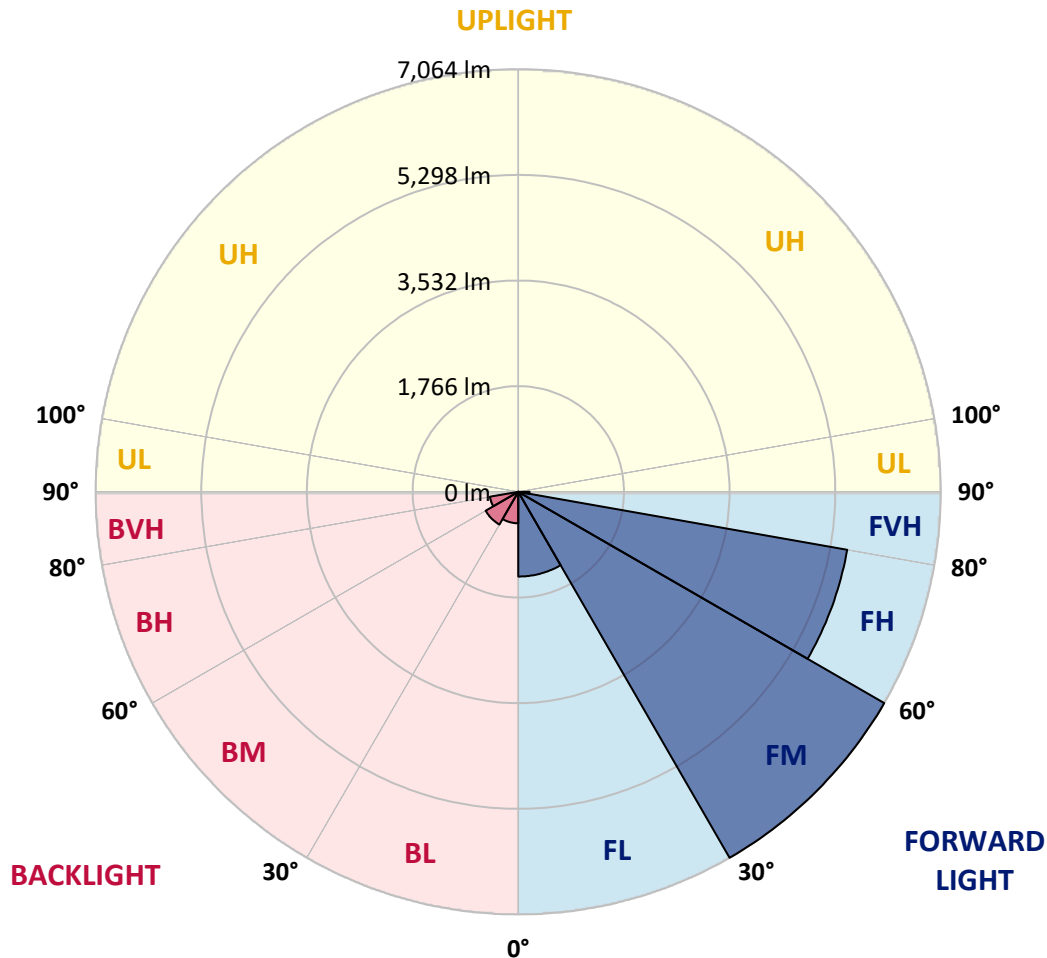
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.3	8.9			
FM (30°-60°)	7064.1	44.4			
FH (60°-80°)	5583.5	35.1			G3/7500
FVH (80°-90°)	187.3	1.2			G2/225
BL (0°-30°)	525.8	3.3	B2/1000		
BM (30°-60°)	630.4	4.0	B1/1000		
BH (60°-80°)	481.4	3.0	B1/500		G1/500
BVH (80°-90°)	6.2	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°	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3
2.5°	3972.2	3976.5	3981.8	3989.4	3994.8	3978.6	3956.1	3930.3	3924.9	3870.2	3803.6
5°	3759.6	3766.1	3813.3	3839.1	3897.0	3949.6	3982.9	3987.2	3985.1	3933.5	3827.2
7.5°	3456.8	3475.1	3521.3	3566.3	3674.8	3774.7	3892.7	3975.4	3980.8	3966.8	3834.8
10°	3211.0	3222.8	3246.4	3335.6	3425.7	3578.2	3743.5	3899.1	3912.1	3967.8	3828.3
12.5°	3018.9	3036.0	3065.0	3133.7	3242.1	3386.0	3573.9	3783.2	3810.1	3947.5	3810.1
15°	2884.6	2893.2	2922.2	2989.8	3095.0	3228.2	3418.2	3661.9	3685.5	3920.7	3806.9
17.5°	2821.3	2831.0	2851.4	2905.1	2992.0	3115.5	3301.2	3564.2	3594.3	3903.5	3818.6
20°	2838.5	2847.1	2848.1	2876.1	2935.1	3039.2	3215.3	3473.0	3511.6	3892.7	3838.0
22.5°	2936.2	2937.3	2924.4	2911.5	2931.9	3007.1	3162.7	3415.0	3454.7	3890.6	3860.5
25°	3082.2	3085.4	3063.9	3018.9	2978.1	3016.7	3150.9	3377.5	3412.9	3885.3	3874.5
27.5°	3284.0	3282.9	3276.5	3201.4	3085.4	3059.6	3160.6	3357.0	3387.0	3870.2	3879.9
30°	3566.3	3557.8	3543.8	3459.0	3281.8	3163.8	3201.4	3344.2	3372.1	3848.8	3865.9
32.5°	3844.4	3876.6	3874.5	3793.9	3572.8	3349.5	3286.1	3361.3	3381.7	3834.8	3845.5
35°	4168.7	4167.6	4250.2	4220.1	3961.4	3586.8	3431.1	3418.2	3434.3	3844.4	3835.8
37.5°	4469.2	4497.2	4626.0	4657.1	4420.9	3921.8	3636.1	3540.6	3546.0	3909.9	3859.4
40°	4843.9	4897.6	5089.7	5193.8	4985.6	4418.8	3938.9	3765.0	3766.1	4070.9	3948.6
42.5°	5327.0	5411.8	5591.1	5765.1	5653.4	5007.1	4393.0	4120.3	4118.2	4354.4	4152.5
45°	5914.2	5973.3	6177.2	6453.2	6382.3	5828.4	5054.3	4671.1	4643.2	4819.2	4514.3
47.5°	6421.0	6501.4	6708.7	7023.2	7345.3	6831.0	5844.4	5427.9	5409.6	5558.9	5134.8
50°	6642.1	6712.9	6930.9	7372.1	8152.6	8147.3	7021.1	6532.6	6501.4	6582.0	6094.6
52.5°	6399.5	6466.0	6686.1	7235.8	8532.6	9751.1	8725.9	7918.6	7881.0	7777.9	7241.2
55°	5568.5	5623.3	5948.6	6579.8	8386.6	10820.4	11074.9	9630.9	9484.9	9084.5	8539.1
57.5°	4433.8	4405.9	4607.8	5340.9	7530.0	11179.0	13486.0	11764.1	11503.2	10213.9	9637.4
60°	3072.5	3158.4	3240.0	3723.1	5661.9	10557.4	14985.8	14445.9	14102.3	11325.0	10689.4
62.5°	2258.8	2315.7	2369.3	2592.6	3560.0	8429.6	15250.9	17200.6	16895.7	12504.8	11693.2
65°	1786.4	1790.7	1812.2	2032.3	2345.7	5481.6	13976.7	18754.0	18675.7	13640.7	12100.1
66°	1627.5	1628.6	1661.9	1898.1	2105.3	4463.9	12955.7	18872.1	18915.0	13913.3	11980.9
67.5°	1422.5	1418.2	1466.5	1705.9	1917.4	3218.5	11128.5	18393.3	18647.7	14122.7	11552.6
70°	1102.6	1097.2	1156.2	1431.0	1766.0	2147.2	7396.8	15793.1	16203.2	13694.3	10221.3
72.5°	734.3	738.7	839.5	1129.4	1685.4	1890.6	4449.9	12014.2	12593.9	11308.8	8041.0
75°	428.3	435.9	550.8	839.5	1463.3	1802.5	2518.5	8567.0	8937.4	7809.1	5009.2
77.5°	224.4	227.6	308.1	554.0	1121.9	1673.7	1678.0	5473.0	5646.9	3795.0	1982.8
80°	119.2	116.0	165.3	333.9	771.9	1469.7	1361.2	2897.5	3012.4	1127.3	501.3
82.5°	45.1	49.4	88.1	219.0	456.2	1055.3	1172.4	1280.8	1241.1	248.0	210.4
85°	8.6	10.8	37.6	129.9	229.8	441.3	864.2	628.1	581.9	93.4	121.3
87.5°	1.1	2.2	10.8	31.1	33.3	149.2	255.5	173.9	150.3	34.3	50.5
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°	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3	3769.3
2.5°	3771.4	3742.4	3645.8	3550.3	3452.6	3364.5	3304.5	3206.7	3182.0	3146.6	3126.2
5°	3763.9	3696.3	3510.5	3307.7	3118.7	2914.7	2759.1	2608.8	2528.2	2487.4	2472.4
7.5°	3742.4	3635.1	3345.2	3027.4	2724.7	2419.8	2154.6	1952.8	1822.9	1733.8	1673.7
10°	3699.5	3551.4	3153.1	2716.1	2258.8	1856.2	1520.2	1264.6	1067.1	1004.8	1007.0
12.5°	3655.5	3457.9	2938.4	2370.4	1803.6	1295.8	939.4	737.6	643.0	611.9	605.5
15°	3614.7	3368.8	2728.0	2035.5	1343.0	839.5	605.5	534.6	508.9	503.5	502.4
17.5°	3593.2	3286.1	2503.6	1652.2	937.2	570.0	485.3	465.9	458.4	453.0	450.9
20°	3574.9	3214.2	2288.9	1293.6	640.9	467.0	434.8	416.5	403.7	398.3	395.1
22.5°	3562.1	3140.1	2066.6	1001.6	490.6	414.4	385.4	361.8	343.5	337.1	332.8
25°	3542.7	3058.5	1842.2	732.2	413.4	368.2	335.0	307.0	283.4	271.6	269.5
27.5°	3514.9	2966.2	1596.4	542.1	369.3	327.4	286.6	252.3	228.7	215.8	216.9
30°	3469.7	2869.7	1350.6	430.5	333.9	285.6	241.5	208.2	185.7	176.1	175.0
32.5°	3416.1	2752.6	1125.1	369.3	301.7	248.0	201.8	172.8	155.7	148.2	147.1
35°	3365.6	2634.5	895.3	331.7	268.4	213.6	169.6	144.9	132.0	125.6	126.7
37.5°	3337.7	2529.3	697.8	301.7	241.5	183.6	146.0	124.6	112.7	107.4	106.3
40°	3355.9	2443.4	555.1	274.8	211.5	157.8	125.6	107.4	95.5	88.1	88.1
42.5°	3441.8	2405.8	447.7	249.1	183.6	136.3	109.5	92.3	79.5	71.9	73.0
45°	3703.8	2445.5	374.7	225.5	157.8	118.1	94.4	76.2	64.4	59.0	57.9
47.5°	4138.6	2594.8	324.2	200.7	135.2	100.9	79.5	63.3	51.6	47.3	46.2
50°	4898.7	2902.9	286.6	176.1	114.9	85.9	65.5	50.5	40.8	36.5	36.5
52.5°	5944.3	3574.9	259.8	148.2	96.6	73.0	53.7	40.8	32.2	29.0	27.9
55°	7037.2	4283.5	245.8	124.6	80.5	60.1	43.0	32.2	24.7	21.4	20.4
57.5°	8088.2	4839.6	229.8	100.9	64.4	46.2	33.3	24.7	17.2	15.1	14.0
60°	9096.3	5289.4	195.4	80.5	50.5	33.3	24.7	17.2	11.8	9.7	9.7
62.5°	9998.1	5551.4	153.5	64.4	38.7	23.6	16.1	12.9	8.6	6.5	6.5
65°	10103.3	5211.1	116.0	49.4	27.9	15.1	9.7	9.7	6.5	4.3	4.3
66°	9891.8	4922.3	102.0	45.1	24.7	12.9	8.6	7.5	5.4	3.2	3.2
67.5°	9419.4	4429.5	88.1	38.7	20.4	9.7	6.5	6.5	4.3	2.2	2.2
70°	8138.7	3617.9	69.8	29.0	15.1	7.5	4.3	4.3	3.2	2.2	2.2
72.5°	6203.0	2701.0	56.9	21.4	10.8	5.4	3.2	3.2	3.2	2.2	2.2
75°	3741.4	1454.7	44.0	16.1	9.7	4.3	2.2	3.2	4.3	3.2	2.2
77.5°	1378.5	494.9	34.3	12.9	7.5	4.3	2.2	2.2	4.3	3.2	3.2
80°	338.2	128.8	24.7	10.8	7.5	4.3	2.2	2.2	4.3	4.3	4.3
82.5°	156.8	54.7	17.2	9.7	7.5	4.3	2.2	2.2	3.2	4.3	4.3
85°	90.2	25.7	14.0	10.8	7.5	4.3	2.2	2.2	3.2	4.3	4.3
87.5°	36.5	12.9	12.9	10.8	8.6	5.4	2.2	2.2	2.2	3.2	3.2
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)