

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: P652633

Luminaire Tested: **GALN-SA9B-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31851.2 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

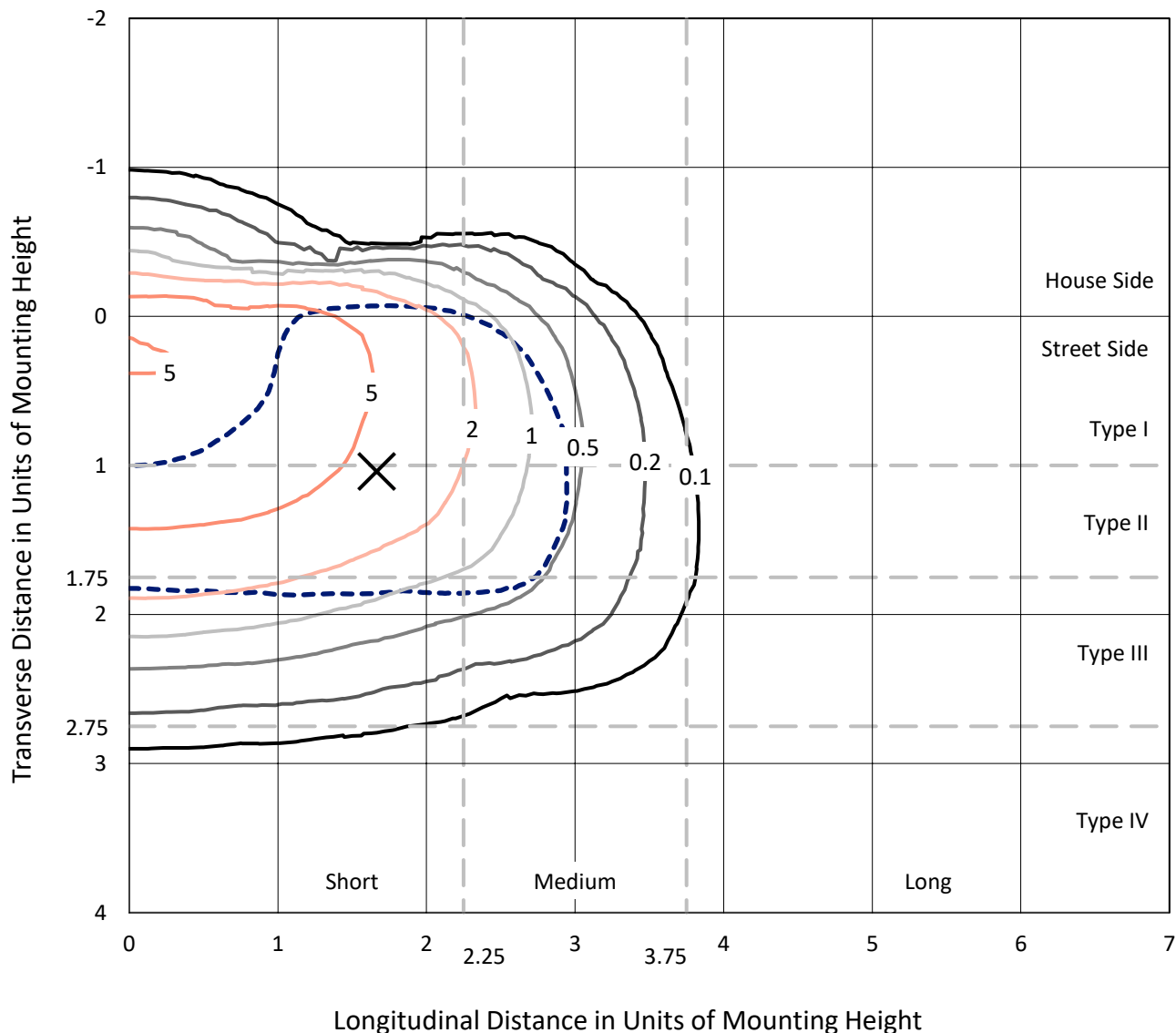
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

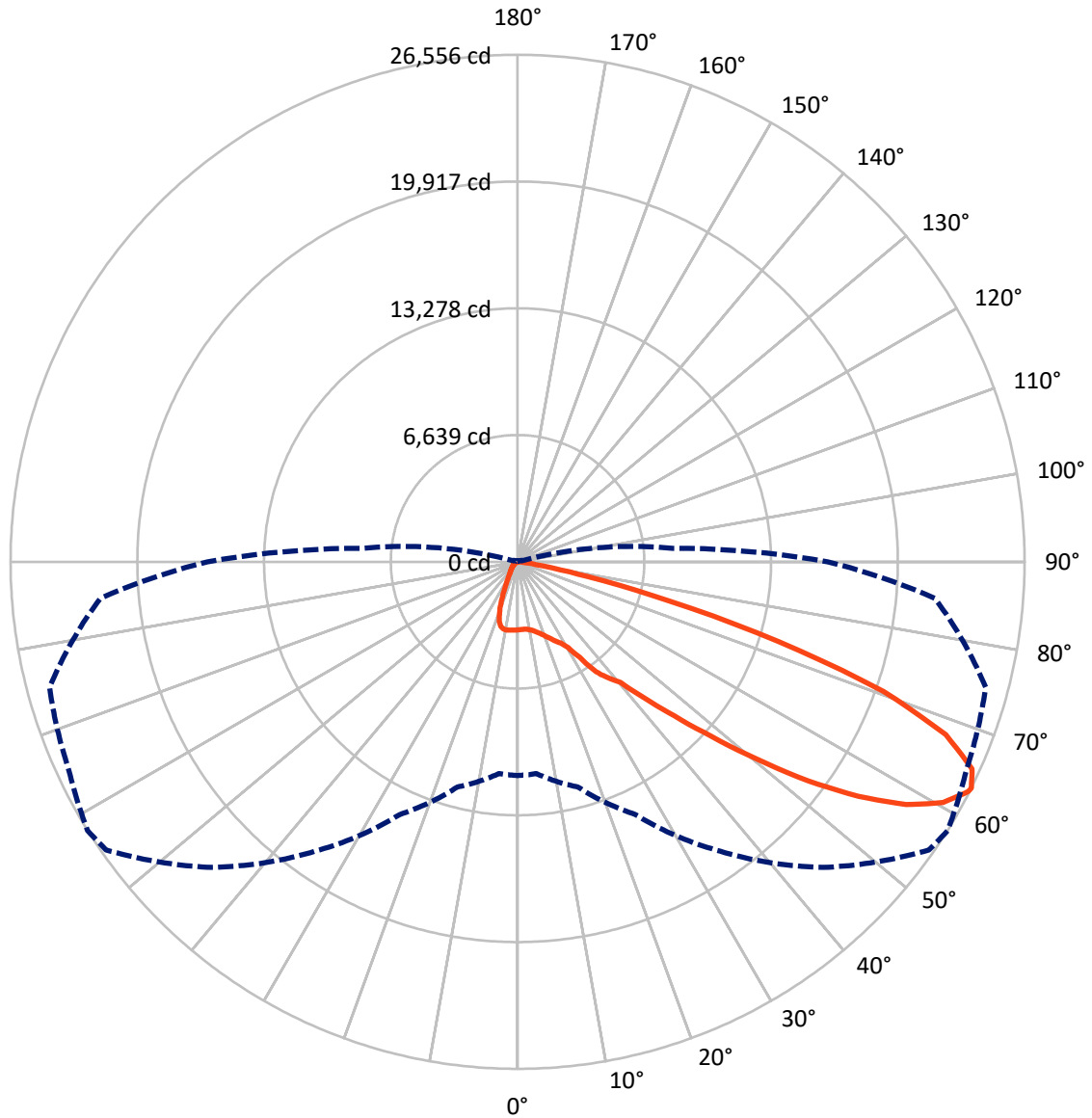
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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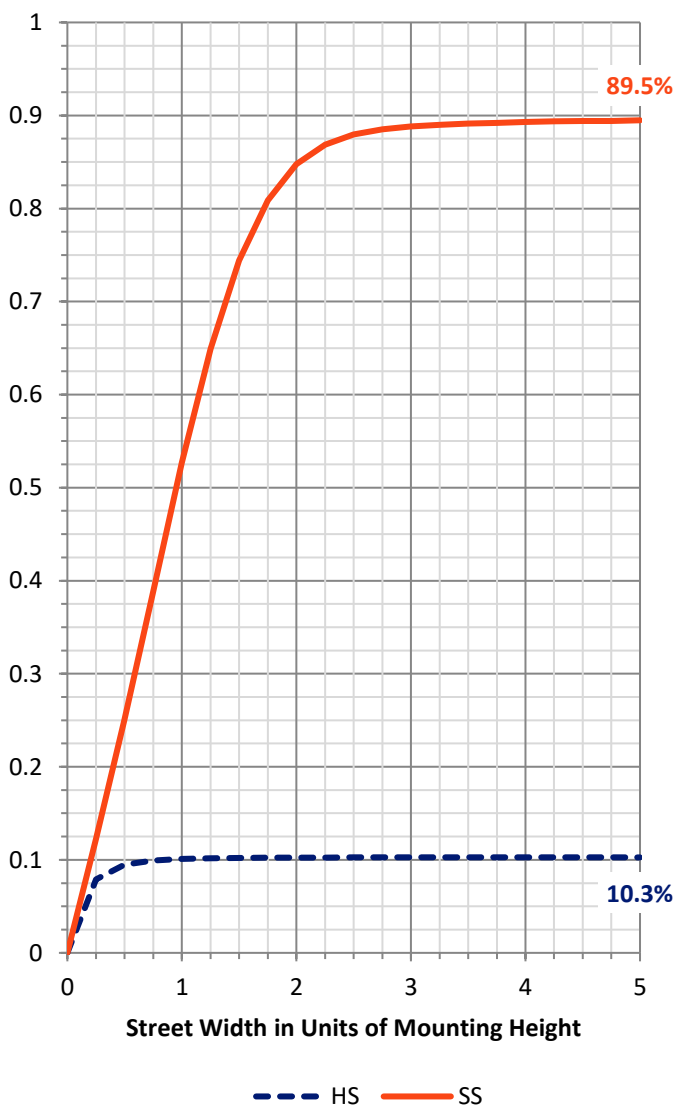
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3298.0	0.0	3298.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	28553.2	0.0	28553.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	31851.2	0.0	31851.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	1.0
10°-20°	909.2	2.9
20°-30°	1577.9	5.0
30°-40°	2899.6	9.1
40°-50°	5458.5	17.1
50°-60°	9336.4	29.3
60°-70°	8939.6	28.1
70°-80°	2279.6	7.2
80°-90°	116.6	0.4
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°	31851.2	100.0
0°-180°	31851.2	100.0

Coefficient of Utilization



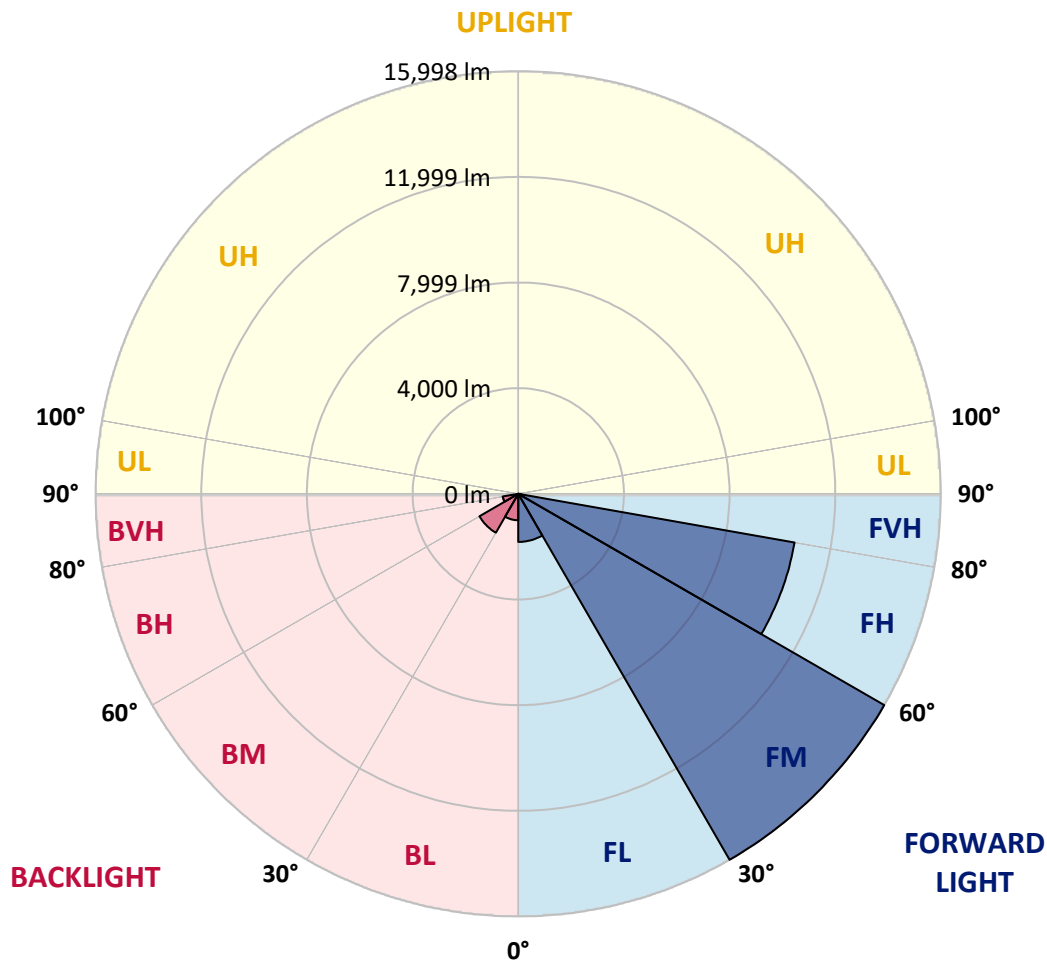
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1820.7	5.7			
FM (30°-60°)	15998.2	50.2			
FH (60°-80°)	10622.2	33.3			G4/12000
FVH (80°-90°)	112.0	0.4			G2/225
BL (0°-30°)	1000.2	3.1	B3/2500		
BM (30°-60°)	1696.3	5.3	B2/2500		
BH (60°-80°)	597.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8
2.5°	3477.1	3489.1	3501.1	3505.9	3522.7	3539.5	3551.5	3549.1	3568.3	3577.9	3577.9
5°	3338.0	3338.0	3369.2	3398.0	3446.0	3493.9	3539.5	3549.1	3585.0	3618.7	3630.6
7.5°	3220.5	3227.8	3251.7	3304.5	3369.2	3453.1	3544.3	3565.8	3628.2	3702.6	3733.7
10°	3165.4	3170.1	3201.4	3256.5	3338.0	3453.1	3580.2	3621.0	3717.0	3834.5	3877.6
12.5°	3153.4	3160.6	3191.8	3254.1	3347.7	3486.7	3659.4	3702.6	3841.6	3992.7	4057.5
15°	3175.0	3179.8	3210.9	3278.1	3381.2	3546.7	3764.9	3824.9	3990.3	4165.4	4249.3
17.5°	3251.7	3246.9	3268.5	3323.6	3438.8	3621.0	3892.0	3964.0	4158.2	4398.0	4453.1
20°	3577.9	3546.7	3527.5	3479.6	3525.1	3726.6	4045.5	4151.0	4390.8	4635.4	4673.8
22.5°	4280.4	4211.0	4074.2	3887.2	3743.3	3870.5	4230.1	4352.4	4661.7	4901.6	4901.6
25°	5174.9	5086.2	4949.5	4541.8	4189.4	4107.8	4438.7	4592.2	4956.7	5198.9	5119.8
27.5°	6294.8	6225.3	5959.1	5484.2	4944.7	4522.6	4680.9	4822.5	5218.1	5510.7	5345.2
30°	7206.1	7172.5	6954.3	6529.9	5935.1	5318.8	5131.8	5225.3	5565.8	5903.9	5733.7
32.5°	7975.8	7975.8	7752.8	7357.2	6800.8	6254.0	5896.8	5963.9	6290.0	6680.9	6364.4
35°	8822.3	8793.6	8613.7	8237.3	7613.7	7131.8	6985.4	7076.6	7371.5	7661.7	6882.3
37.5°	9712.0	9702.4	9515.3	9150.8	8642.5	8035.8	7692.9	7716.8	7867.9	8045.3	7489.0
40°	10678.4	10692.8	10448.2	10222.8	9743.2	9122.1	8465.0	8314.0	8455.4	8956.6	8608.9
42.5°	11819.8	11786.3	11680.8	11373.9	10987.7	10616.0	9827.1	9771.9	9896.6	10433.8	10057.4
45°	13146.0	13193.9	13011.7	12841.4	12582.5	12273.1	11613.6	11517.7	11654.4	12488.9	11954.1
47.5°	14474.5	14429.0	14546.4	14515.2	14654.3	14424.2	13841.4	13644.8	13973.3	14764.7	13978.1
50°	15486.4	15536.8	15781.4	16138.7	16735.8	16865.3	16306.6	16239.5	16385.7	16894.1	15788.6
52.5°	16143.5	16311.4	16695.0	17613.5	18690.2	19527.1	19102.6	19066.7	19006.8	19143.4	17520.0
55°	16572.7	16743.0	17244.2	18596.7	20450.3	21810.1	21831.6	21678.1	21282.5	21184.2	19138.6
57.5°	16309.0	16342.6	17057.2	18865.2	21426.3	23438.3	24143.3	23989.9	23258.4	22886.7	20567.8
60°	14659.1	14728.7	15723.8	17848.5	21001.9	23970.7	25675.6	25606.1	24805.2	24385.6	21680.6
62.5°	11735.9	11937.4	12961.3	15330.6	19028.3	23073.8	26296.7	26493.4	25869.9	25292.0	22030.7
63°	11198.8	11134.0	12215.5	14596.8	18505.5	22630.1	26306.3	26555.8	25917.9	25378.3	21934.7
65°	8290.0	8484.2	9186.8	11510.5	15400.1	20565.5	25714.0	26155.3	25740.4	24997.0	20872.4
67.5°	4654.6	4645.0	5421.9	7532.2	10779.1	16131.6	23251.3	24184.0	24097.8	22431.2	17301.7
70°	2278.1	2314.1	2633.0	3904.0	6251.7	11129.2	19320.9	20328.1	20359.3	17618.3	11963.7
72.5°	1031.2	1048.0	1275.7	1901.7	3213.4	5925.5	13313.9	14275.5	14098.0	11227.5	6606.6
75°	544.4	580.3	702.7	956.8	1549.1	2443.6	7242.0	8172.5	7800.8	5129.3	2431.6
77.5°	402.8	414.9	477.2	609.1	829.7	952.0	3124.7	3717.0	3481.9	1856.1	805.8
80°	294.9	304.5	354.9	431.7	522.8	484.4	1177.4	1350.1	1211.0	630.7	247.0
82.5°	179.9	182.2	259.0	321.3	328.5	271.0	388.5	417.2	436.5	354.9	134.3
85°	64.8	81.5	175.1	232.6	194.3	136.7	163.1	179.9	196.6	225.4	79.1
87.5°	7.2	9.6	83.9	112.7	55.2	50.4	60.0	67.1	71.9	83.9	38.3
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°	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8	3565.8
2.5°	3587.5	3597.0	3589.8	3577.9	3575.4	3568.3	3553.9	3553.9	3553.9	3558.7	3553.9
5°	3640.2	3647.4	3630.6	3606.6	3580.2	3546.7	3510.7	3489.1	3486.7	3481.9	3470.0
7.5°	3740.9	3750.5	3712.2	3654.6	3582.7	3501.1	3424.4	3352.5	3318.8	3292.5	3292.5
10°	3887.2	3896.8	3820.1	3717.0	3573.1	3407.6	3225.3	3059.9	2930.4	2870.4	2856.0
12.5°	4062.3	4067.1	3939.9	3760.1	3522.7	3203.8	2815.2	2453.2	2201.4	2086.3	2074.3
15°	4254.1	4220.6	4052.7	3776.9	3378.8	2784.1	2112.7	1669.0	1407.7	1330.9	1359.6
17.5°	4448.3	4386.0	4139.0	3750.5	3055.1	2112.7	1419.6	1139.1	1057.6	1035.9	1035.9
20°	4630.5	4544.3	4201.3	3635.4	2494.0	1455.6	1052.8	985.6	971.2	956.8	959.2
22.5°	4812.9	4680.9	4256.5	3378.8	1858.4	1040.7	942.4	920.8	901.6	882.5	880.1
25°	4990.3	4808.1	4278.1	2904.0	1266.1	894.5	860.9	832.1	793.7	772.2	767.3
27.5°	5174.9	4961.5	4263.7	2304.5	923.2	801.0	767.3	726.6	681.0	642.7	642.7
30°	5529.8	5254.1	4213.3	1657.0	777.0	705.0	661.9	597.1	546.7	508.4	505.9
32.5°	6014.2	5635.4	4040.7	1165.5	690.6	621.1	556.3	484.4	431.7	402.8	402.8
35°	6445.9	6019.0	3717.0	858.5	621.1	539.6	460.4	390.9	350.1	330.9	323.7
37.5°	7102.9	6580.2	3270.9	697.9	554.0	467.6	386.1	321.3	287.8	273.4	273.4
40°	8088.6	7266.0	2724.2	611.5	489.2	398.0	321.3	271.0	244.6	227.8	227.8
42.5°	9311.6	8105.3	2170.2	549.2	429.2	342.9	268.6	230.2	206.2	194.3	191.8
45°	10851.1	8990.2	1671.4	491.6	381.3	292.6	227.8	194.3	170.2	163.1	165.4
47.5°	12457.7	9769.6	1295.0	441.3	330.9	247.0	194.3	167.9	151.0	141.5	141.5
50°	13829.4	10306.7	983.2	383.7	292.6	208.7	170.2	151.0	136.7	131.9	129.5
52.5°	14975.7	10462.5	752.9	333.3	256.6	179.9	151.0	136.7	124.7	117.5	117.5
55°	15951.7	10325.9	589.9	280.6	215.8	155.8	134.3	122.3	107.9	100.8	98.3
57.5°	16522.4	9887.0	450.9	232.6	175.1	129.5	117.5	103.1	86.4	74.3	74.3
60°	16810.2	9249.1	345.3	191.8	134.3	103.1	96.0	76.7	60.0	50.4	47.9
62.5°	16464.8	8402.7	261.4	151.0	100.8	76.7	64.8	55.2	38.3	28.8	28.8
63°	16251.4	8158.1	251.8	143.9	93.5	71.9	60.0	50.4	33.6	26.4	24.0
65°	14815.0	7091.0	206.2	115.1	74.3	50.4	40.8	36.0	24.0	12.0	9.6
67.5°	11764.7	5424.4	163.1	86.4	52.7	36.0	24.0	21.6	7.2	0.0	0.0
70°	7954.3	3503.5	127.1	62.3	36.0	21.6	12.0	9.6	2.4	0.0	0.0
72.5°	4148.6	1796.1	98.3	45.6	21.6	14.4	7.2	2.4	0.0	0.0	0.0
75°	1467.6	611.5	71.9	28.8	14.4	7.2	2.4	0.0	0.0	0.0	0.0
77.5°	443.6	227.8	45.6	21.6	9.6	4.8	0.0	0.0	0.0	0.0	0.0
80°	155.8	83.9	26.4	14.4	7.2	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	76.7	40.8	16.8	12.0	7.2	2.4	0.0	0.0	0.0	0.0	0.0
85°	43.1	26.4	14.4	12.0	7.2	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	31.2	19.2	14.4	12.0	9.6	4.8	2.4	0.0	0.0	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)