

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: P651093

Luminaire Tested: **GALN-SA8C-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651093
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-SA8C-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA 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: 35052.9 lumens
Efficiency: N/A
Efficacy: 81.7 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

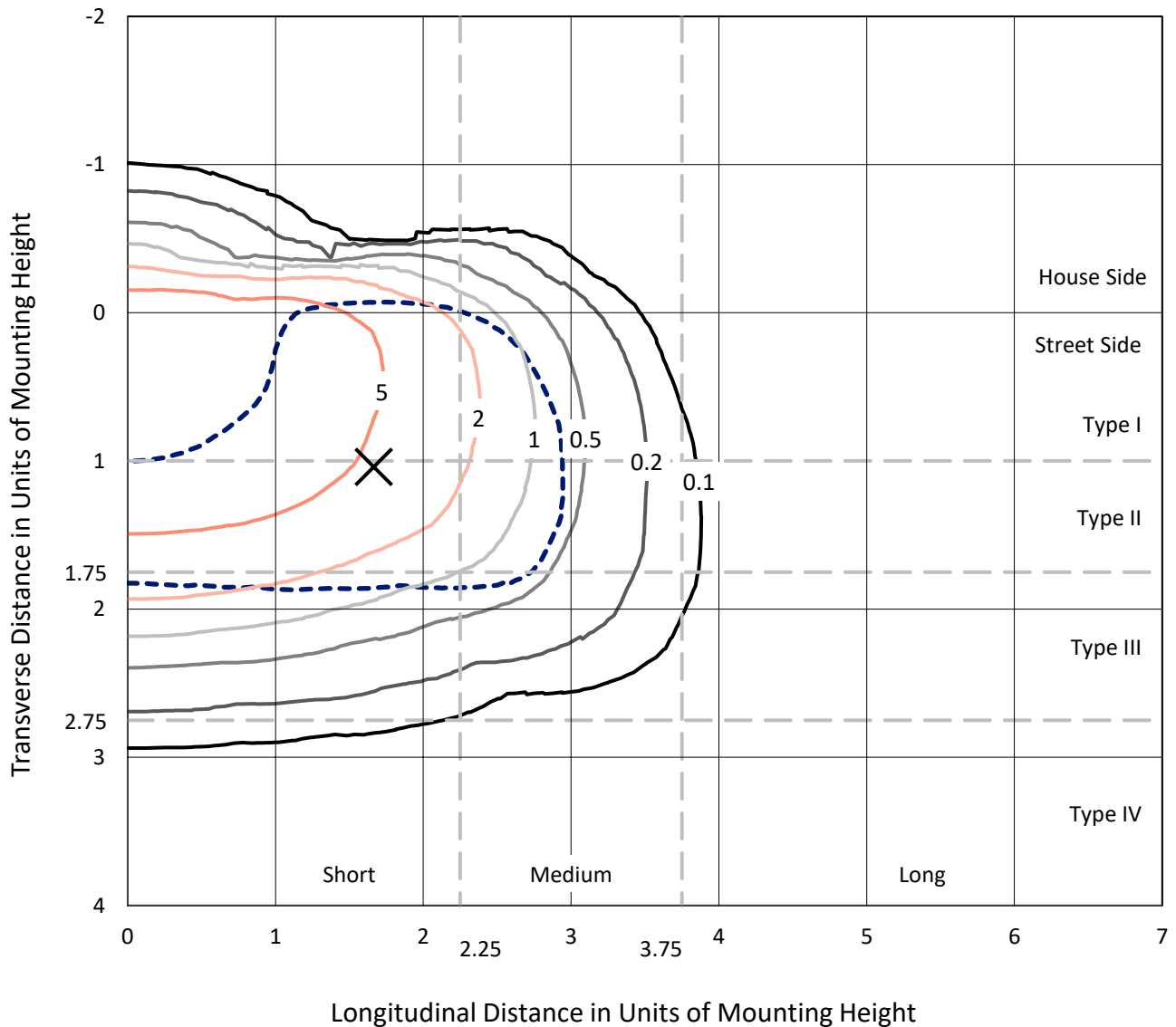
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

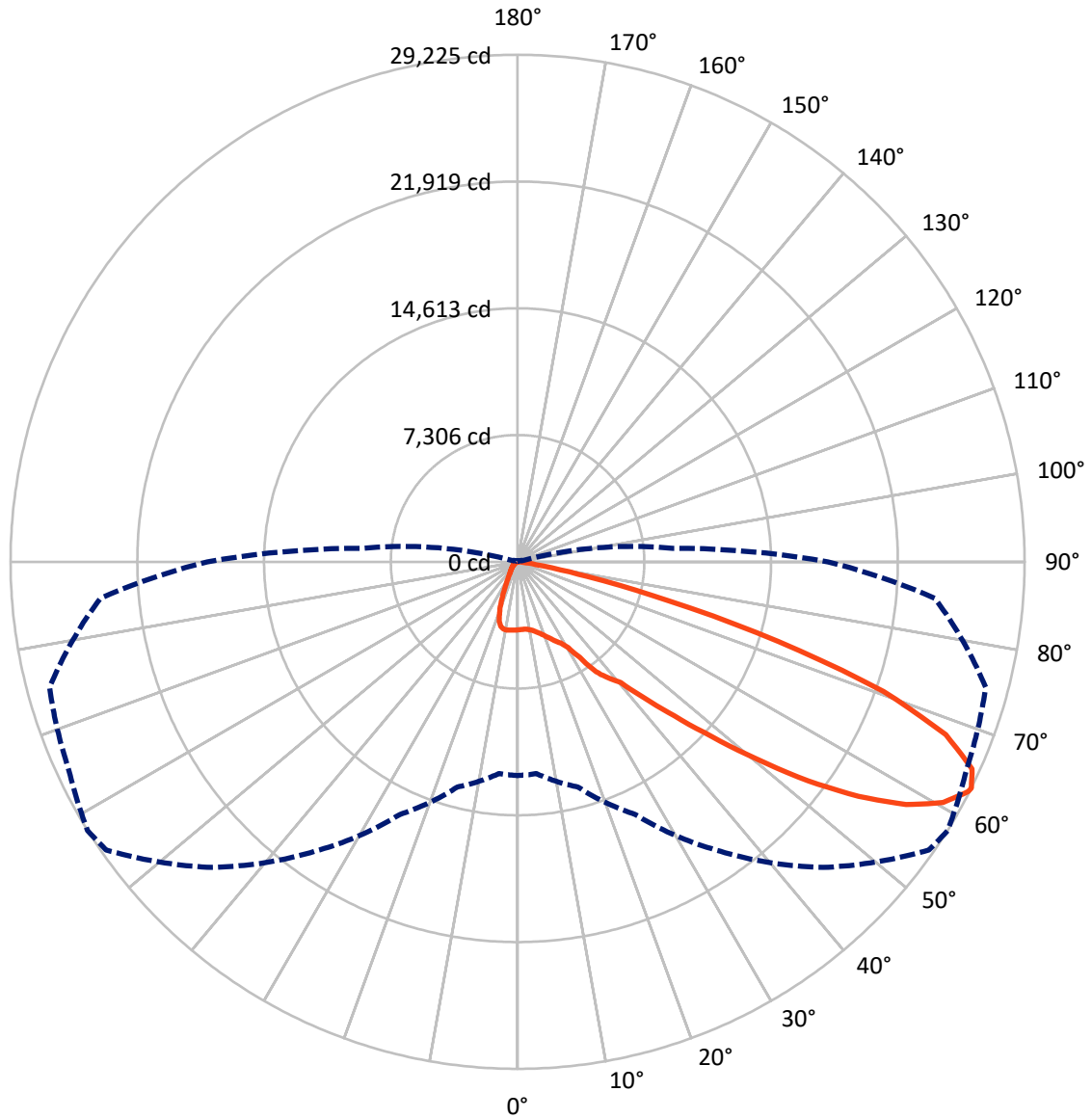
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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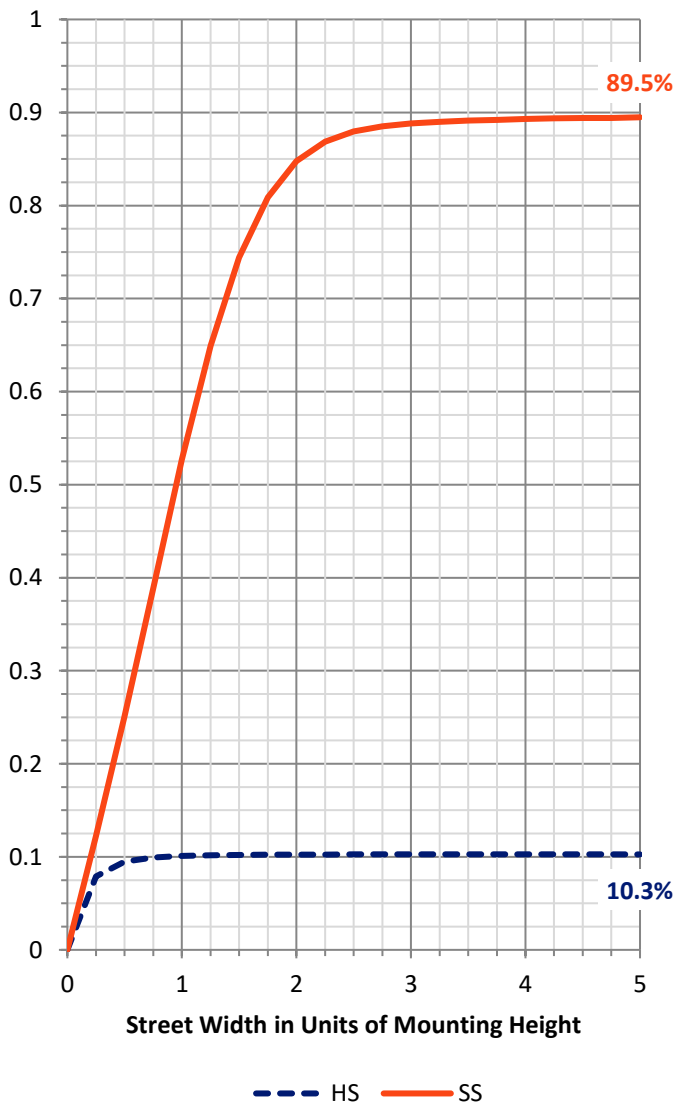
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3629.5	0.0	3629.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	31423.4	0.0	31423.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	35052.9	0.0	35052.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.4	1.0
10°-20°	1000.6	2.9
20°-30°	1736.5	5.0
30°-40°	3191.1	9.1
40°-50°	6007.2	17.1
50°-60°	10274.9	29.3
60°-70°	9838.2	28.1
70°-80°	2508.8	7.2
80°-90°	128.3	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°	35052.9	100.0
0°-180°	35052.9	100.0



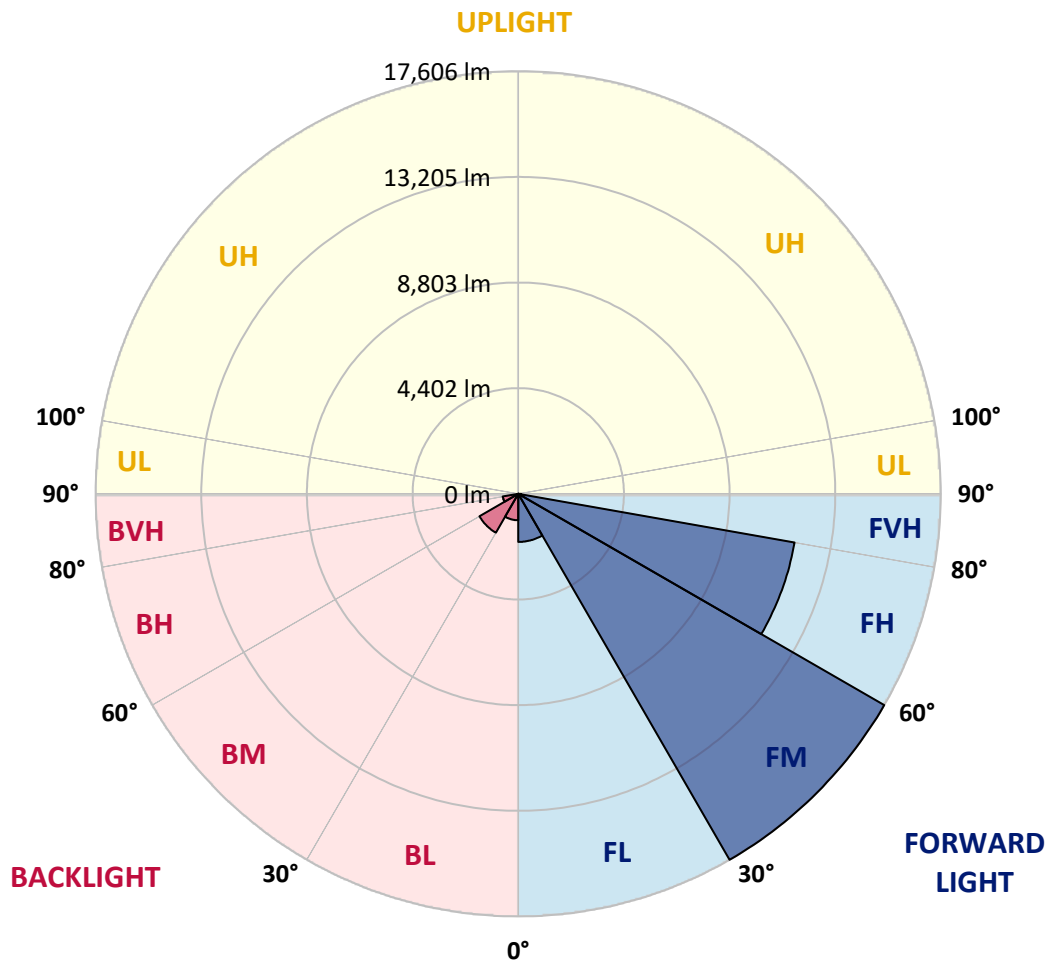
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2003.8	5.7			
FM (30°-60°)	17606.4	50.2			
FH (60°-80°)	11689.9	33.3			G4/12000
FVH (80°-90°)	123.3	0.4			G2/225
BL (0°-30°)	1100.7	3.1	B3/2500		
BM (30°-60°)	1866.8	5.3	B2/2500		
BH (60°-80°)	657.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3
2.5°	3826.6	3839.8	3853.0	3858.3	3876.8	3895.3	3908.5	3905.9	3927.0	3937.5	3937.5
5°	3673.6	3673.6	3707.9	3739.6	3792.3	3845.1	3895.3	3905.9	3945.4	3982.4	3995.6
7.5°	3544.3	3552.2	3578.6	3636.7	3707.9	3800.3	3900.6	3924.3	3992.9	4074.7	4109.0
10°	3483.6	3488.9	3523.2	3583.8	3673.6	3800.3	3940.2	3985.0	4090.5	4219.9	4267.4
12.5°	3470.4	3478.3	3512.6	3581.2	3684.2	3837.2	4027.2	4074.7	4227.8	4394.1	4465.3
15°	3494.1	3499.4	3533.7	3607.6	3721.1	3903.2	4143.4	4209.3	4391.4	4584.0	4676.5
17.5°	3578.6	3573.3	3597.0	3657.8	3784.4	3985.0	4283.2	4362.4	4576.1	4840.0	4900.8
20°	3937.5	3903.2	3882.1	3829.3	3879.4	4101.1	4452.1	4568.2	4832.1	5101.3	5143.6
22.5°	4710.8	4634.2	4483.8	4277.9	4119.6	4259.5	4655.4	4789.9	5130.4	5394.3	5394.3
25°	5695.1	5597.4	5447.1	4998.4	4610.4	4520.7	4884.9	5053.8	5455.0	5721.5	5634.4
27.5°	6927.6	6851.0	6558.1	6035.6	5441.8	4977.3	5151.5	5307.2	5742.6	6064.6	5882.5
30°	7930.5	7893.5	7653.4	7186.2	6531.7	5853.4	5647.7	5750.5	6125.3	6497.4	6310.0
32.5°	8777.6	8777.6	8532.1	8096.6	7484.4	6882.7	6489.5	6563.4	6922.3	7352.4	7004.1
35°	9709.2	9677.5	9479.6	9065.2	8379.1	7848.6	7687.7	7787.9	8112.5	8431.9	7574.1
37.5°	10688.3	10677.7	10471.9	10070.7	9511.2	8843.5	8466.2	8492.6	8658.8	8854.1	8241.8
40°	11751.8	11767.6	11498.5	11250.4	10722.6	10039.0	9315.9	9149.7	9305.4	9856.9	9474.3
42.5°	13008.0	12971.1	12854.9	12517.1	12092.2	11683.2	10814.9	10754.2	10891.5	11482.6	11068.3
45°	14467.4	14520.2	14319.6	14132.2	13847.2	13506.8	12781.0	12675.5	12825.9	13744.3	13155.8
47.5°	15929.5	15879.3	16008.6	15974.3	16127.4	15874.0	15232.8	15016.3	15377.9	16248.8	15383.2
50°	17043.1	17098.5	17367.7	17761.0	18418.1	18560.6	17945.7	17871.8	18032.8	18592.3	17375.6
52.5°	17766.3	17951.0	18373.2	19384.0	20568.9	21490.0	21022.9	20983.3	20917.4	21067.7	19281.1
55°	18238.7	18426.1	18977.6	20466.1	22506.0	24002.4	24026.1	23857.2	23421.8	23313.6	21062.4
57.5°	17948.4	17985.3	18771.7	20761.6	23580.1	25794.3	26570.2	26401.3	25596.4	25187.4	22635.3
60°	16132.7	16209.2	17304.4	19642.6	23113.0	26380.2	28256.6	28180.1	27298.6	26836.7	23859.8
62.5°	12915.7	13137.3	14264.2	16871.6	20941.1	25393.2	28940.1	29156.5	28470.4	27834.3	24245.2
63°	12324.5	12253.2	13443.5	16064.0	20365.7	24905.0	28950.7	29225.1	28523.1	27929.4	24139.6
65°	9123.3	9337.0	10110.3	12667.6	16948.2	22632.7	28298.8	28784.4	28327.8	27509.7	22970.5
67.5°	5122.4	5111.9	5967.0	8289.3	11862.6	17753.1	25588.5	26615.0	26520.1	24685.9	19040.9
70°	2507.1	2546.7	2897.7	4296.4	6880.1	12248.0	21263.0	22371.4	22405.8	19389.3	13166.4
72.5°	1134.8	1153.3	1404.0	2092.8	3536.3	6521.1	14652.2	15710.4	15515.1	12356.1	7270.6
75°	599.0	638.7	773.2	1053.0	1704.9	2689.2	7970.0	8994.0	8584.9	5645.0	2676.1
77.5°	443.4	456.6	525.2	670.4	913.2	1047.7	3438.7	4090.5	3831.9	2042.6	886.8
80°	324.6	335.1	390.6	475.0	575.3	533.1	1295.8	1485.8	1332.7	694.1	271.8
82.5°	198.0	200.6	285.0	353.6	361.5	298.2	427.6	459.2	480.3	390.6	147.8
85°	71.2	89.7	192.7	256.0	213.8	150.5	179.5	198.0	216.4	248.1	87.1
87.5°	7.9	10.6	92.3	124.0	60.7	55.4	66.0	73.9	79.1	92.3	42.2
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°	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3	3924.3
2.5°	3948.1	3958.6	3950.7	3937.5	3934.9	3927.0	3911.1	3911.1	3911.1	3916.4	3911.1
5°	4006.1	4014.0	3995.6	3969.2	3940.2	3903.2	3863.6	3839.8	3837.2	3831.9	3818.7
7.5°	4116.9	4127.5	4085.3	4021.9	3942.8	3853.0	3768.6	3689.5	3652.5	3623.4	3623.4
10°	4277.9	4288.5	4204.1	4090.5	3932.3	3750.1	3549.5	3367.4	3225.0	3159.0	3143.2
12.5°	4470.6	4475.9	4336.0	4138.1	3876.8	3525.8	3098.2	2699.8	2422.7	2296.0	2282.8
15°	4681.7	4644.8	4460.1	4156.6	3718.5	3063.9	2325.0	1836.8	1549.1	1464.7	1496.4
17.5°	4895.5	4826.8	4555.0	4127.5	3362.1	2325.0	1562.3	1253.6	1163.9	1140.1	1140.1
20°	5096.0	5001.0	4623.6	4000.8	2744.6	1601.9	1158.6	1084.6	1068.8	1053.0	1055.6
22.5°	5296.6	5151.5	4684.4	3718.5	2045.3	1145.4	1037.1	1013.4	992.3	971.2	968.6
25°	5491.9	5291.3	4708.1	3195.9	1393.5	984.4	947.4	915.8	873.5	849.7	844.5
27.5°	5695.1	5460.3	4692.3	2536.1	1016.0	881.5	844.5	799.6	749.5	707.3	707.3
30°	6085.7	5782.2	4636.9	1823.6	855.0	775.9	728.4	657.2	601.7	559.5	556.8
32.5°	6618.8	6201.8	4446.9	1282.6	760.1	683.5	612.2	533.1	475.0	443.4	443.4
35°	7093.8	6624.1	4090.5	944.8	683.5	593.8	506.7	430.2	385.3	364.2	356.2
37.5°	7816.9	7241.6	3599.7	768.0	609.6	514.6	424.9	353.6	316.7	300.8	300.8
40°	8901.6	7996.4	2998.0	673.0	538.4	438.1	353.6	298.2	269.2	250.7	250.7
42.5°	10247.5	8920.1	2388.4	604.3	472.4	377.4	295.6	253.4	227.0	213.8	211.1
45°	11941.8	9893.9	1839.4	541.0	419.6	321.9	250.7	213.8	187.4	179.5	182.1
47.5°	13710.0	10751.6	1425.1	485.6	364.2	271.8	213.8	184.8	166.3	155.7	155.7
50°	15219.6	11342.7	1082.0	422.3	321.9	229.6	187.4	166.3	150.5	145.2	142.5
52.5°	16481.0	11514.3	828.6	366.8	282.4	198.0	166.3	150.5	137.3	129.3	129.3
55°	17555.1	11363.8	649.3	308.7	237.5	171.6	147.8	134.6	118.7	110.8	108.2
57.5°	18183.3	10880.9	496.1	256.0	192.7	142.5	129.3	113.5	95.0	81.8	81.8
60°	18499.9	10178.9	380.0	211.1	147.8	113.5	105.5	84.4	66.0	55.4	52.8
62.5°	18119.9	9247.3	287.6	166.3	110.8	84.4	71.2	60.7	42.2	31.7	31.7
63°	17885.0	8978.1	277.1	158.4	102.9	79.1	66.0	55.4	36.9	29.0	26.4
65°	16304.2	7803.7	227.0	126.7	81.8	55.4	44.8	39.6	26.4	13.2	10.6
67.5°	12947.3	5969.6	179.5	95.0	58.0	39.6	26.4	23.7	7.9	0.0	0.0
70°	8753.8	3855.6	139.9	68.6	39.6	23.7	13.2	10.6	2.6	0.0	0.0
72.5°	4565.6	1976.7	108.2	50.1	23.7	15.8	7.9	2.6	0.0	0.0	0.0
75°	1615.1	673.0	79.1	31.7	15.8	7.9	2.6	0.0	0.0	0.0	0.0
77.5°	488.2	250.7	50.1	23.7	10.6	5.3	0.0	0.0	0.0	0.0	0.0
80°	171.6	92.3	29.0	15.8	7.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	84.4	44.8	18.5	13.2	7.9	2.6	0.0	0.0	0.0	0.0	0.0
85°	47.5	29.0	15.8	13.2	7.9	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	34.3	21.1	15.8	13.2	10.6	5.3	2.6	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)