

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: P647070

Luminaire Tested: **GALN-SA7C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28663.3 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

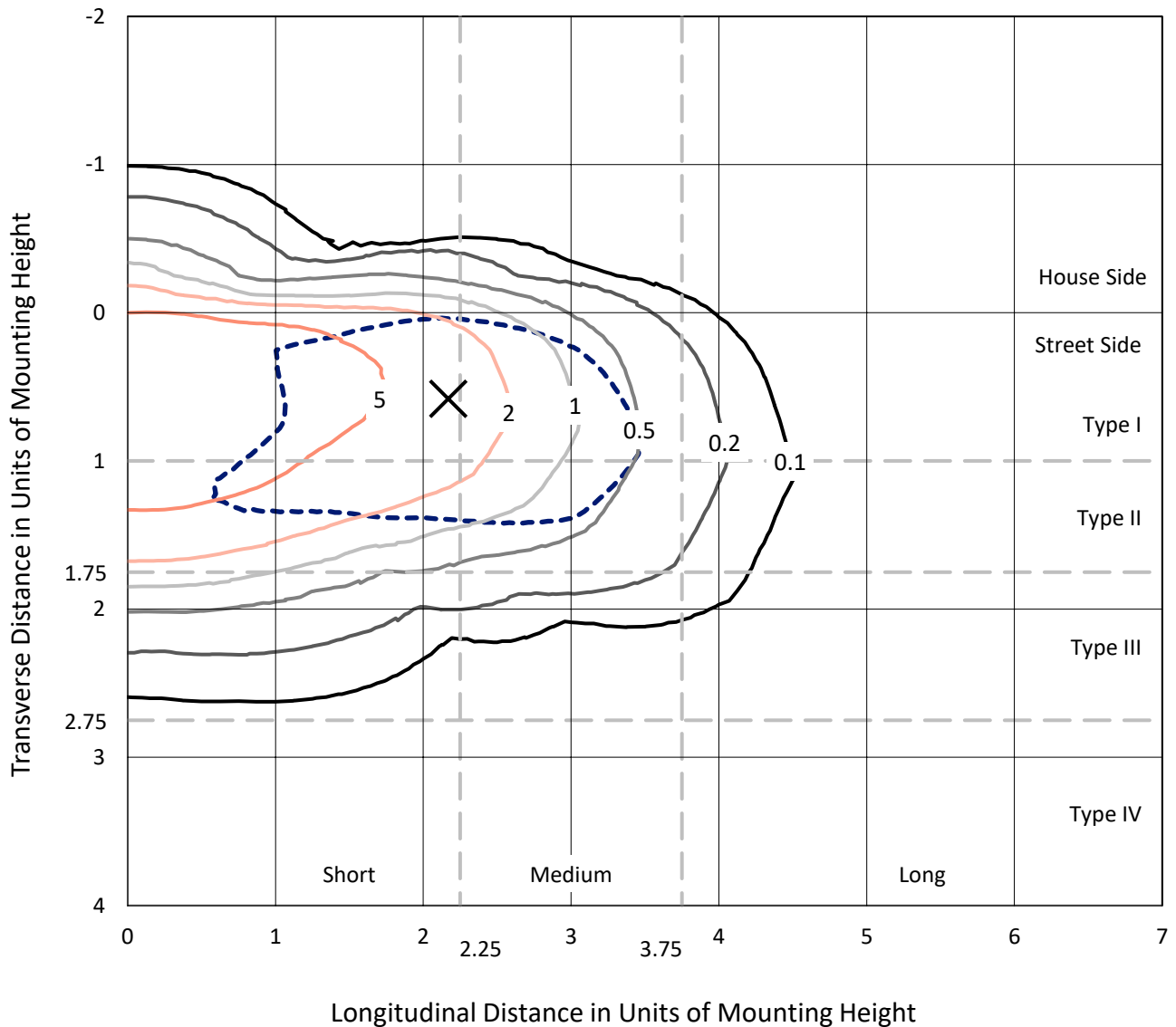
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

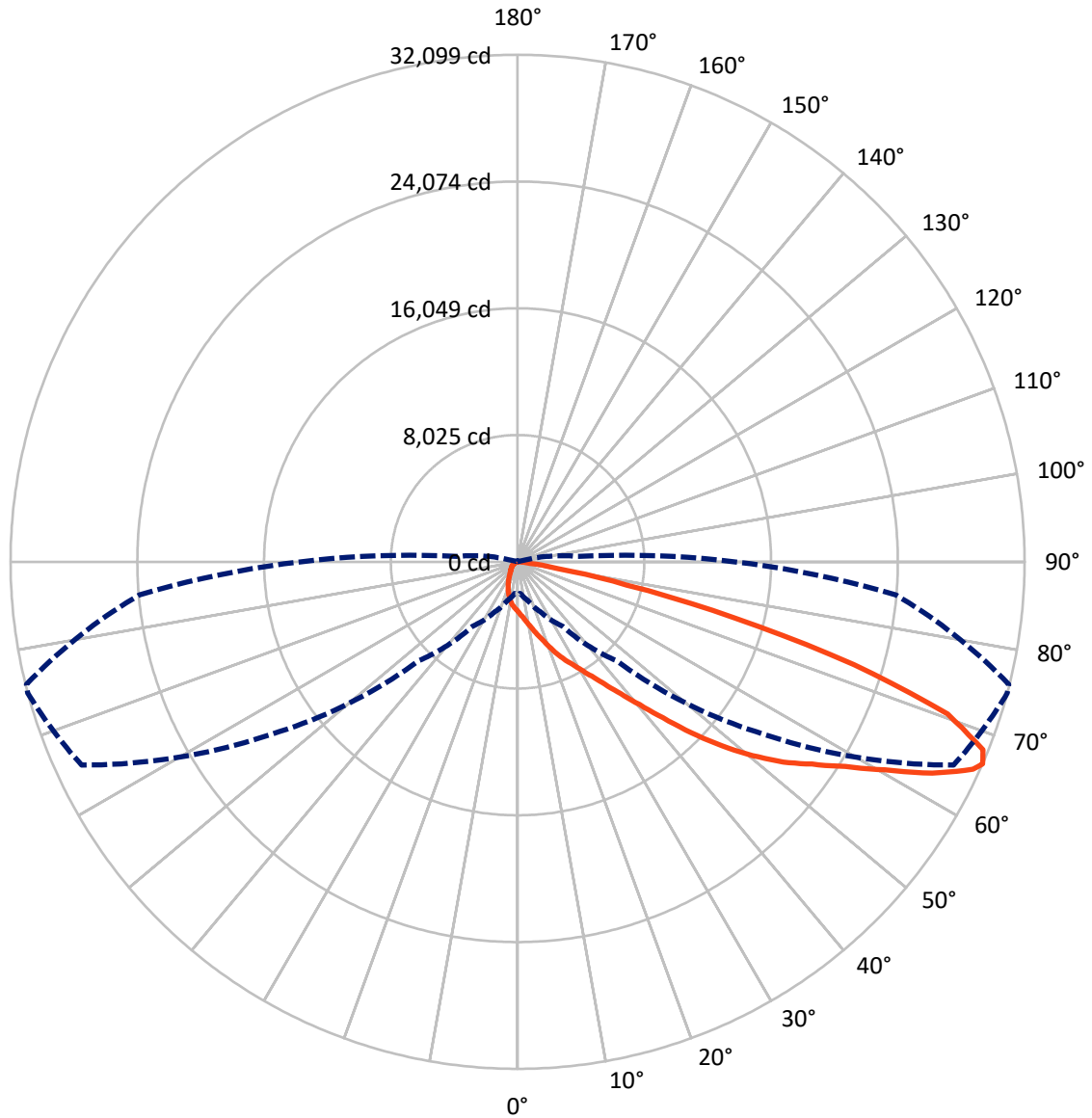
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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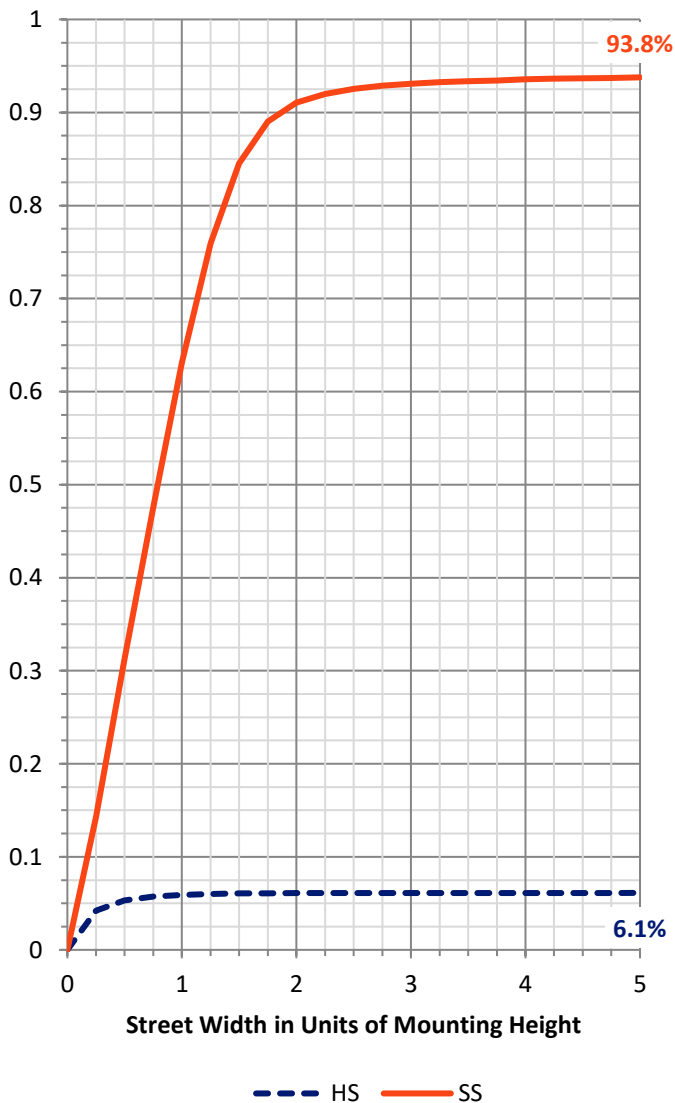
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1769.5	0.0	1769.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	26893.7	0.0	26893.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	28663.3	0.0	28663.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	1.1
10°-20°	889.8	3.1
20°-30°	1536.5	5.4
30°-40°	2771.5	9.7
40°-50°	5006.8	17.5
50°-60°	7805.6	27.2
60°-70°	7415.0	25.9
70°-80°	2779.0	9.7
80°-90°	156.8	0.5
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°	28663.3	100.0
0°-180°	28663.3	100.0

Coefficient of Utilization

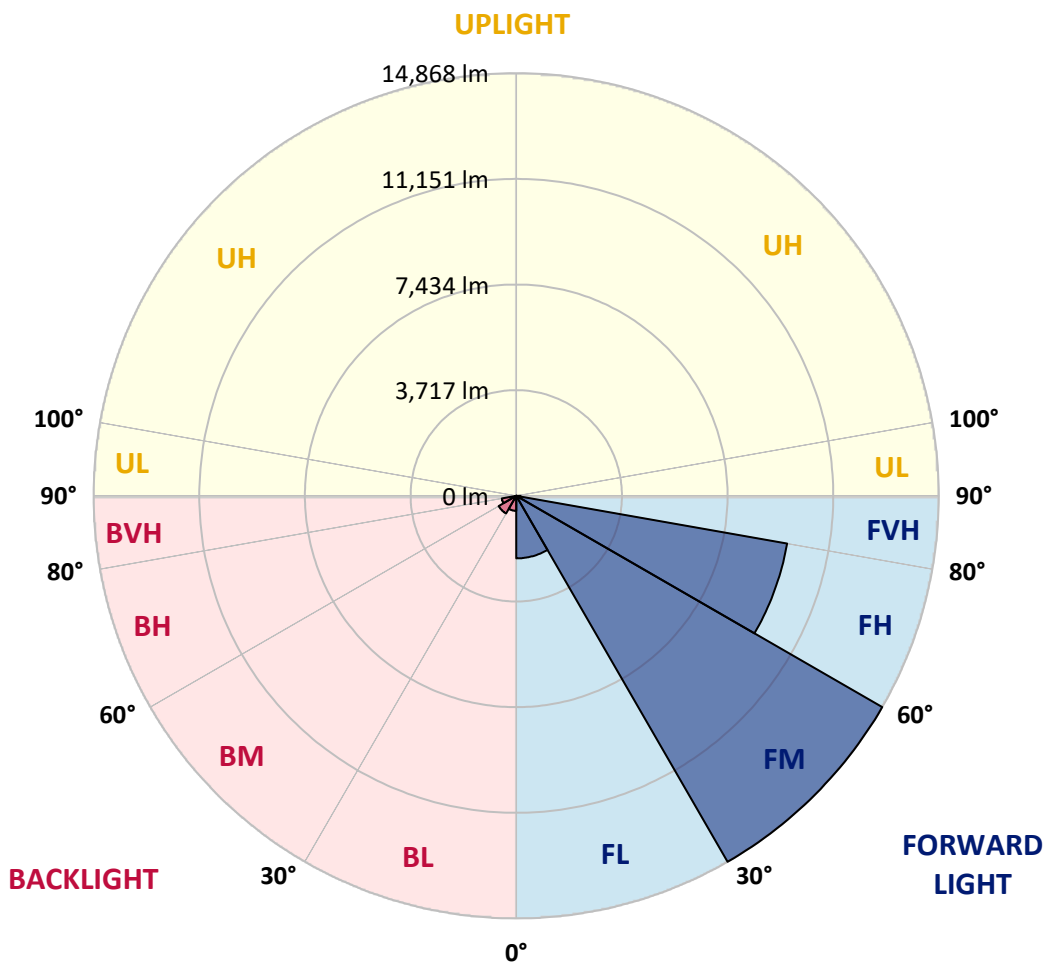


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2200.2	7.7			
FM (30°-60°)	14867.6	51.9			
FH (60°-80°)	9677.3	33.8			G4/12000
FVH (80°-90°)	148.7	0.5			G2/225
BL (0°-30°)	528.5	1.8	B2/1000		
BM (30°-60°)	716.3	2.5	B1/1000		
BH (60°-80°)	516.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.1	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6
2.5°	3745.0	3698.3	3713.2	3692.0	3643.3	3571.2	3507.6	3416.5	3325.3	3310.5	3208.8
5°	4238.8	4226.1	4209.2	4147.7	4113.8	4003.6	3872.2	3715.3	3526.7	3492.8	3308.4
7.5°	4575.9	4569.4	4578.0	4546.2	4516.5	4416.8	4277.0	4062.9	3770.5	3751.4	3444.0
10°	4686.0	4703.0	4734.8	4785.6	4832.3	4800.5	4694.5	4427.5	4086.2	4031.1	3598.7
12.5°	4622.4	4641.5	4717.8	4853.4	5003.9	5090.8	5048.5	4853.4	4421.1	4376.6	3772.6
15°	4459.3	4482.6	4590.7	4800.5	5069.6	5315.5	5421.5	5281.6	4811.1	4739.0	3982.4
17.5°	4217.6	4251.5	4406.3	4683.9	5052.7	5476.5	5775.4	5728.7	5226.4	5158.6	4211.3
20°	4035.3	4060.8	4192.2	4510.1	4980.6	5565.6	6112.4	6243.8	5739.4	5622.8	4480.4
22.5°	4156.2	4164.6	4209.2	4399.9	4851.3	5588.9	6409.1	6780.0	6284.0	6180.2	4760.2
25°	4747.5	4662.7	4618.2	4575.9	4823.7	5567.7	6678.3	7339.5	6826.7	6716.4	5037.8
27.5°	5680.0	5641.9	5417.2	5116.3	5059.0	5595.2	6856.3	7869.4	7337.4	7218.7	5309.1
30°	6695.2	6629.5	6491.8	6050.9	5608.0	5790.2	6985.6	8384.4	7941.4	7784.6	5557.1
32.5°	7627.8	7670.2	7464.6	7011.0	6498.1	6205.7	7153.0	8946.0	8634.5	8439.5	5845.3
35°	8715.0	8799.8	8484.0	8049.6	7449.8	6955.9	7479.4	9579.8	9514.1	9268.2	6290.4
37.5°	9819.2	9870.1	9677.3	9066.8	8526.4	7909.6	8094.0	10361.8	10597.0	10387.3	6822.4
40°	10747.5	10817.5	10675.5	10132.9	9556.4	9013.9	8986.3	11213.8	11885.7	11669.5	7615.1
42.5°	11457.6	11510.6	11514.8	11131.1	10611.9	10366.1	10124.4	12301.1	13500.6	13250.6	8534.9
45°	12354.1	12430.4	12385.9	12125.1	11737.3	11692.8	11567.7	13615.1	15433.6	15117.8	9728.1
47.5°	13740.2	13791.1	13680.8	13373.5	12979.3	13049.2	12975.0	15088.1	17404.6	17133.4	10963.7
50°	14702.4	14787.1	14944.0	15066.9	14780.8	14522.2	14301.8	16463.6	19276.1	19032.3	12226.9
52.5°	14691.7	14831.7	15327.6	15946.5	16571.7	16493.3	15859.6	17983.2	21062.7	20761.8	13413.8
55°	13702.0	13973.3	14702.4	15800.2	17531.8	18394.4	18106.2	19742.3	22605.7	22402.2	14789.3
57.5°	11658.9	11824.2	12837.3	14371.7	16995.6	19288.8	20708.8	22126.7	24455.9	24360.5	16925.6
60°	7841.8	7916.0	9219.4	11116.3	14469.2	18396.5	22616.3	25011.2	26734.3	26687.7	19420.2
62.5°	4493.2	4525.0	5470.2	7070.3	10296.1	15590.4	22777.3	28569.7	29466.2	29491.6	22306.8
65°	2418.2	2435.2	3198.2	4149.8	6265.0	11112.1	20482.0	30519.5	31674.6	31723.4	24095.7
66°	2087.6	2007.1	2545.5	3537.3	4984.9	8844.3	19030.2	30449.6	32098.5	32045.5	24032.1
67.5°	1587.5	1659.5	2032.5	2719.2	3694.1	6288.3	15711.2	29095.3	31776.4	31611.0	23055.0
70°	1136.0	1165.7	1447.5	1939.3	2515.8	3450.4	10039.6	24165.6	28881.3	28658.7	20085.7
72.5°	733.3	765.1	1025.8	1403.1	1818.4	1884.1	5620.7	17459.7	22266.6	22234.8	15126.2
75°	523.5	553.2	678.2	1004.6	1367.0	1165.7	2706.5	11767.0	14155.5	14060.2	9357.2
77.5°	379.4	394.2	453.6	657.0	977.0	835.1	1254.7	6284.0	7047.1	7379.8	4134.9
80°	218.3	231.0	315.8	400.6	661.2	570.1	599.8	2522.1	2600.5	2475.5	1292.8
82.5°	108.1	122.9	188.6	273.4	413.3	383.6	275.5	758.7	801.2	779.9	326.4
85°	25.4	31.8	105.9	180.2	201.3	171.6	133.5	222.5	275.5	269.2	125.0
87.5°	2.1	4.2	38.1	31.8	33.9	57.2	46.6	57.2	89.0	82.7	44.5
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°	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6	3134.6
2.5°	3162.1	3121.9	3005.3	2890.9	2795.5	2695.9	2604.7	2551.8	2530.6	2507.2	2517.9
5°	3206.7	3109.2	2873.9	2670.5	2471.2	2301.7	2166.0	2079.2	2036.7	2030.4	2019.8
7.5°	3266.0	3098.6	2734.1	2416.1	2155.4	1966.8	1812.1	1687.1	1648.9	1615.0	1587.5
10°	3338.1	3079.5	2560.3	2149.1	1871.4	1634.0	1430.6	1282.2	1206.0	1184.8	1199.6
12.5°	3414.3	3043.4	2378.0	1903.2	1583.2	1280.1	1091.5	1017.4	996.1	987.7	989.8
15°	3490.7	2999.0	2187.2	1665.8	1261.0	1021.6	934.7	915.6	907.1	902.9	898.6
17.5°	3560.6	2926.9	1973.2	1434.8	1021.6	873.2	841.4	824.4	807.5	801.2	790.5
20°	3643.3	2844.2	1780.3	1176.3	864.7	790.5	752.4	720.6	695.1	678.2	676.1
22.5°	3721.7	2738.3	1579.0	974.9	788.4	710.0	648.6	614.7	585.0	563.8	570.1
25°	3764.1	2609.0	1398.8	849.9	718.5	629.5	561.6	519.3	487.5	476.8	474.7
27.5°	3764.1	2450.0	1222.9	777.8	654.9	557.4	487.5	447.2	426.0	411.2	413.3
30°	3734.4	2274.1	1059.7	722.7	599.8	493.8	428.1	392.1	375.1	364.6	362.5
32.5°	3711.1	2106.7	919.8	669.7	542.5	438.7	381.5	353.9	337.0	326.4	326.4
35°	3747.1	1962.6	811.7	616.8	489.6	396.4	345.5	320.0	303.1	294.6	292.5
37.5°	3842.5	1831.2	729.1	559.5	440.8	360.3	320.0	290.3	273.4	262.8	258.5
40°	4077.8	1757.0	667.6	506.5	394.2	330.7	290.3	262.8	241.6	231.0	228.9
42.5°	4455.0	1759.1	608.2	457.8	358.1	305.2	264.9	233.1	209.8	199.2	197.1
45°	5023.0	1839.7	561.6	411.2	326.4	277.7	237.4	203.5	182.3	171.6	171.6
47.5°	5703.4	1996.5	521.4	370.9	296.8	252.2	209.8	175.9	154.7	146.3	146.3
50°	6440.9	2199.9	481.1	328.5	271.3	224.6	180.2	152.6	135.6	129.3	129.3
52.5°	7193.3	2445.8	440.8	294.6	243.7	195.0	154.7	135.6	120.8	116.6	114.5
55°	8180.9	2759.4	398.5	258.5	214.1	167.4	137.7	118.7	101.7	95.4	93.3
57.5°	9700.6	3232.1	351.8	226.8	175.9	139.8	118.7	99.6	80.6	69.9	67.8
60°	11533.8	3808.6	303.1	199.2	142.0	114.5	95.4	76.3	59.4	46.6	44.5
62.5°	13250.6	4175.3	256.4	167.4	112.4	86.9	67.8	57.2	42.4	29.7	27.6
65°	14009.4	4052.3	212.0	135.6	89.0	61.5	44.5	40.2	25.4	12.7	10.6
66°	13757.2	3870.1	195.0	122.9	80.6	53.0	38.1	33.9	19.1	6.3	6.3
67.5°	13013.2	3439.8	169.5	105.9	69.9	42.4	29.7	25.4	10.6	2.1	0.0
70°	11150.2	2782.8	133.5	78.5	50.9	29.7	17.0	12.7	6.3	0.0	0.0
72.5°	8564.5	2072.8	105.9	59.4	36.0	17.0	8.5	4.2	6.3	0.0	0.0
75°	5247.7	1184.8	82.7	44.5	23.3	10.6	6.3	0.0	6.3	2.1	0.0
77.5°	2329.3	532.0	55.1	29.7	17.0	8.5	4.2	0.0	4.2	2.1	0.0
80°	589.2	173.8	31.8	21.2	12.7	6.3	2.1	0.0	4.2	4.2	2.1
82.5°	161.1	63.6	23.3	17.0	10.6	6.3	2.1	0.0	4.2	4.2	4.2
85°	63.6	29.7	21.2	17.0	12.7	6.3	2.1	0.0	4.2	4.2	4.2
87.5°	29.7	21.2	21.2	19.1	14.8	6.3	2.1	0.0	4.2	2.1	4.2
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)