

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: P646890

Luminaire Tested: **GALN-SA4C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18013.7 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

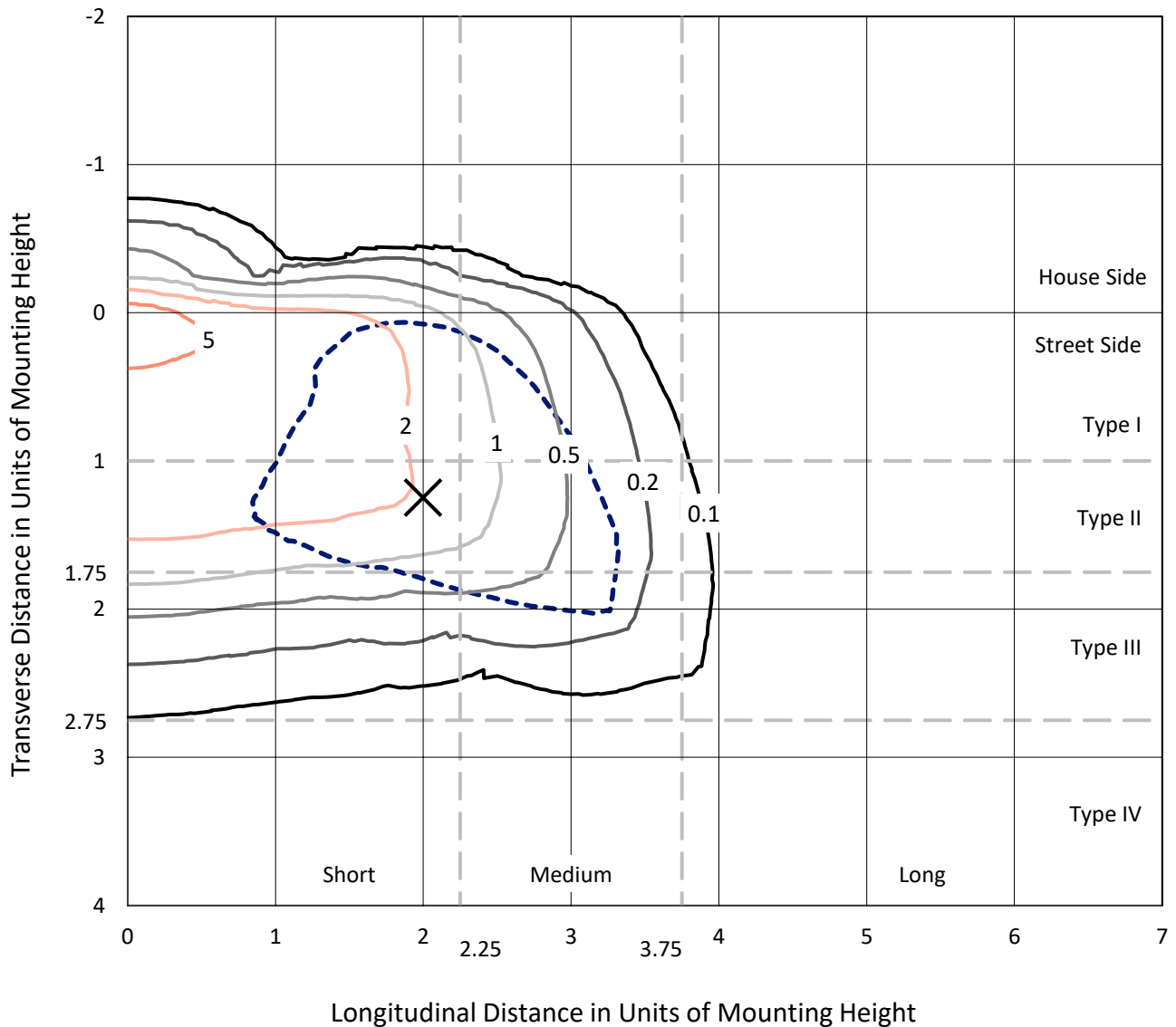
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

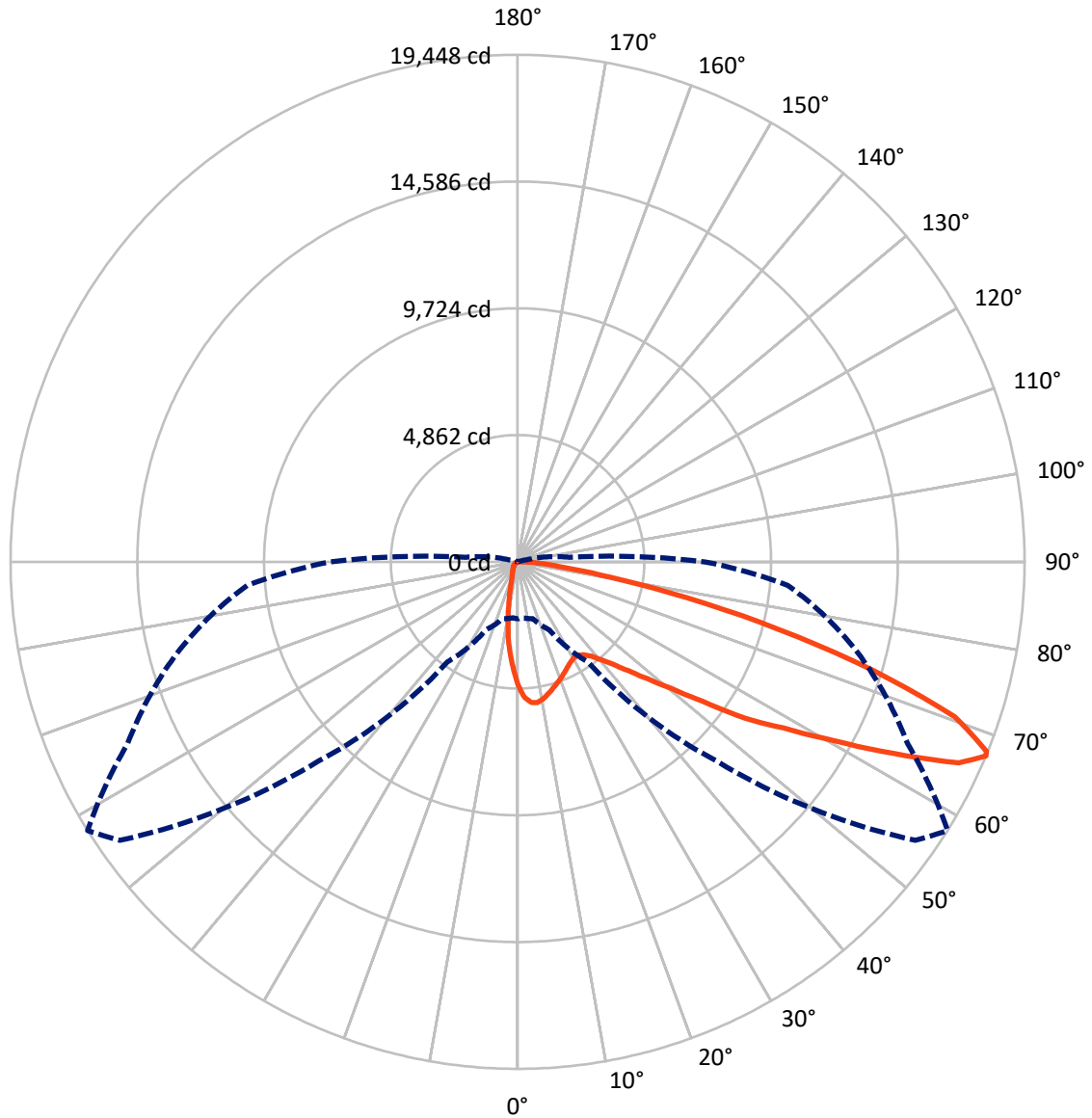
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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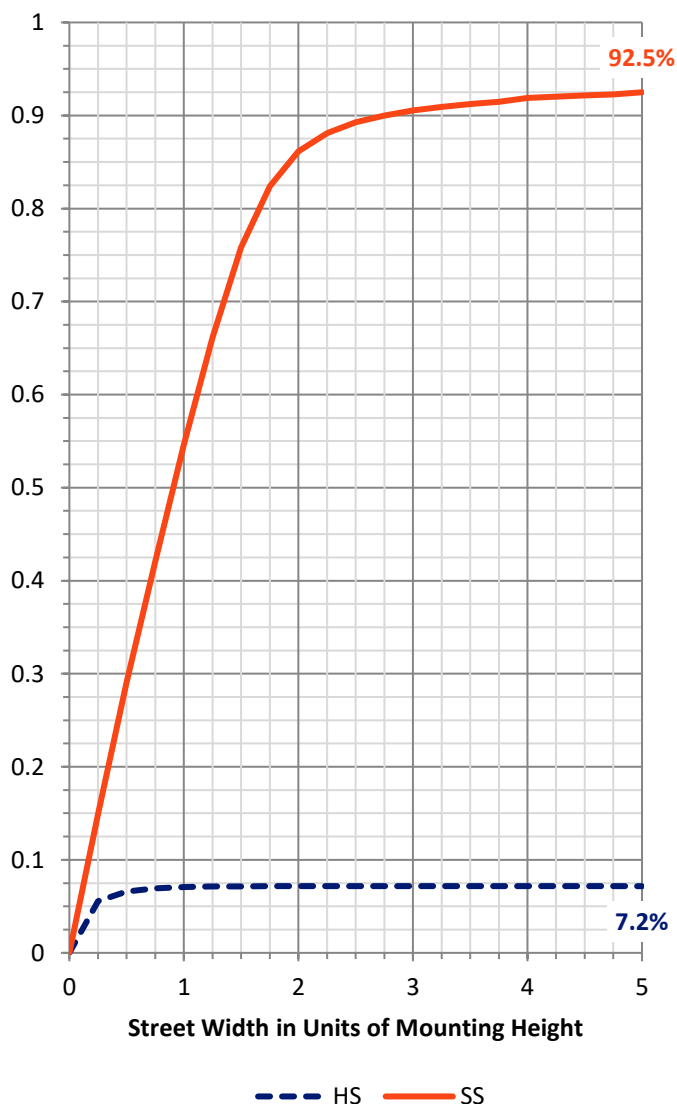
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1300.0	0.0	1300.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16713.7	0.0	16713.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	18013.7	0.0	18013.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.5	2.2
10°-20°	836.9	4.6
20°-30°	1134.1	6.3
30°-40°	1572.9	8.7
40°-50°	2508.6	13.9
50°-60°	4336.3	24.1
60°-70°	4953.4	27.5
70°-80°	2065.1	11.5
80°-90°	219.0	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°	18013.7	100.0
0°-180°	18013.7	100.0

Coefficient of Utilization

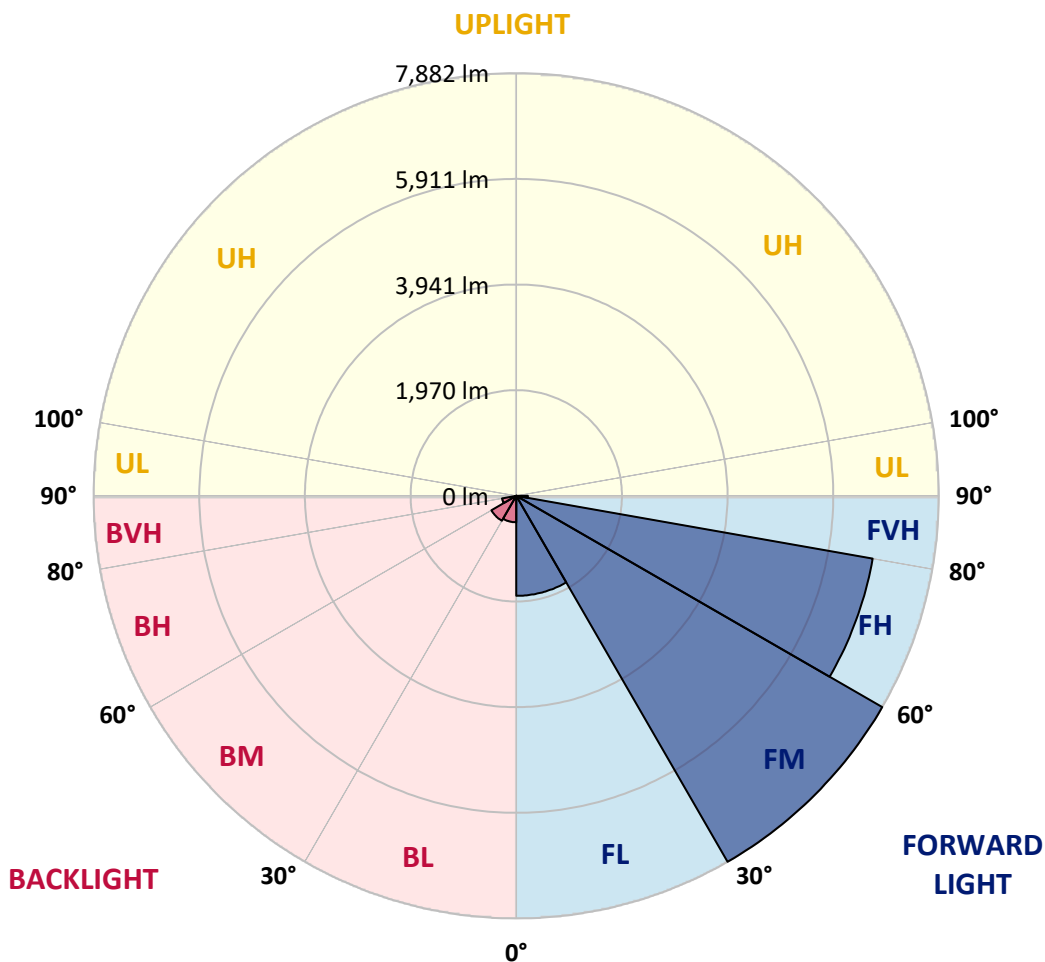


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.9	10.4			
FM (30°-60°)	7881.7	43.8			
FH (60°-80°)	6749.8	37.5			G3/7500
FVH (80°-90°)	217.4	1.2			G2/225
BL (0°-30°)	493.6	2.7	B1/500		
BM (30°-60°)	536.0	3.0	B1/1000		
BH (60°-80°)	268.7	1.5	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3
2.5°	5542.1	5550.5	5519.2	5493.9	5428.9	5359.1	5266.4	5217.1	5132.8	4987.2	4825.8
5°	5672.1	5682.9	5678.1	5672.1	5646.8	5579.3	5461.4	5418.0	5294.1	5056.9	4765.7
7.5°	5383.1	5422.9	5427.7	5474.7	5519.2	5525.2	5480.7	5448.2	5333.8	5055.8	4658.5
10°	5000.4	5026.9	5065.4	5119.6	5226.7	5315.8	5359.1	5354.2	5288.1	5018.4	4533.3
12.5°	4614.0	4628.4	4687.4	4780.1	4911.3	5063.0	5178.5	5201.4	5202.6	4973.9	4428.6
15°	4281.8	4275.7	4321.5	4428.6	4612.7	4802.9	5010.0	5046.1	5103.9	4930.6	4331.1
17.5°	3997.6	4028.9	4036.1	4154.1	4323.9	4570.6	4834.2	4898.1	5013.6	4893.2	4250.4
20°	3821.9	3838.7	3854.4	3920.6	4073.5	4333.5	4669.3	4757.2	4929.4	4859.5	4160.2
22.5°	3770.1	3781.0	3767.7	3788.2	3896.5	4127.7	4490.0	4606.7	4848.7	4828.2	4086.7
25°	3809.8	3820.7	3789.4	3765.3	3802.6	3960.3	4316.6	4458.7	4783.7	4822.2	4031.4
27.5°	3906.2	3926.6	3883.3	3840.0	3818.3	3870.1	4180.6	4345.5	4739.2	4851.1	4006.1
30°	4056.6	4068.7	4036.1	3983.2	3933.9	3882.1	4109.6	4267.3	4727.1	4918.5	4003.6
32.5°	4220.4	4245.6	4227.6	4192.7	4128.8	4006.1	4130.1	4269.7	4756.0	5016.0	4033.8
35°	4422.5	4451.4	4468.3	4461.1	4379.2	4226.3	4260.1	4378.1	4833.1	5195.4	4115.6
37.5°	4621.2	4646.5	4741.5	4774.0	4701.8	4557.4	4512.8	4591.1	5002.7	5430.1	4263.7
40°	4848.7	4882.4	5016.0	5140.0	5105.1	4953.4	4871.6	4936.6	5262.8	5784.0	4544.1
42.5°	5066.6	5126.8	5330.2	5549.3	5581.8	5412.0	5357.9	5379.5	5648.0	6293.2	4935.3
45°	5375.9	5432.5	5694.9	5992.2	6145.1	6012.7	5957.4	5953.7	6176.5	7009.4	5569.7
47.5°	5822.5	5873.0	6182.4	6476.2	6748.2	6766.3	6661.5	6697.6	6840.9	7847.2	6347.4
50°	6370.3	6489.4	6692.8	6998.6	7362.2	7655.9	7688.4	7640.2	7763.0	8817.4	7281.4
52.5°	7165.9	7211.7	7398.3	7649.8	8075.9	8574.3	8960.7	8894.5	8856.0	9741.9	8225.2
55°	7759.4	7820.8	8110.9	8456.3	9081.1	9738.3	10576.1	10599.0	10112.7	10630.3	9148.5
57.5°	7580.0	7673.9	8113.3	8807.8	10181.3	11382.6	12006.2	12021.8	11275.5	11493.3	10190.9
60°	6659.1	6703.7	7333.3	8260.1	10275.2	13164.2	14034.5	13908.1	12458.8	12458.8	11111.8
62.5°	4722.3	4792.1	5302.5	6666.4	9279.7	13782.9	16463.7	16202.5	14088.7	13382.1	11660.7
65°	3017.8	2950.4	3288.6	4208.3	6913.1	12869.2	18578.6	18594.3	15622.3	13751.6	11360.9
67°	2186.0	2159.5	2257.0	2877.0	4687.4	10818.1	18623.2	19447.8	16503.4	13518.1	10402.8
67.5°	1999.4	2019.9	2090.9	2595.3	4258.9	9844.3	18420.9	19397.2	16702.0	13377.2	10056.1
70°	1515.5	1480.6	1557.6	1835.7	2553.1	6210.1	15846.1	17790.2	16455.2	11979.7	8035.0
72.5°	1114.7	1111.1	1218.2	1501.1	1965.7	3307.9	11895.4	14264.4	13443.5	9122.0	5059.4
75°	752.3	786.1	957.0	1254.3	1781.6	2145.1	8109.6	10348.6	9332.7	5179.7	2068.1
77.5°	428.5	431.0	616.3	1007.6	1599.7	1726.2	4805.3	6592.9	4940.2	1722.6	614.0
80°	185.4	203.4	305.8	731.9	1326.6	1528.7	2755.4	3623.3	1998.2	364.7	198.6
82.5°	68.6	80.6	134.8	450.2	967.8	1259.1	1664.8	1729.8	677.7	128.8	123.9
85°	0.0	2.4	49.3	210.6	504.4	562.1	1112.3	1025.6	299.7	61.4	80.6
87.5°	0.0	0.0	0.0	21.7	66.2	209.5	345.5	385.2	72.2	21.7	19.3
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°	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3
2.5°	4739.2	4660.9	4464.7	4268.5	4122.8	4001.3	3818.3	3718.4	3665.4	3587.2	3592.0
5°	4620.0	4461.1	4115.6	3758.1	3469.2	3187.5	2850.5	2714.4	2600.1	2535.1	2491.7
7.5°	4443.1	4208.3	3696.7	3220.0	2775.8	2283.5	1914.0	1667.2	1501.1	1439.7	1380.7
10°	4249.3	3937.5	3271.8	2610.9	1994.6	1486.6	1173.6	947.4	866.7	792.1	799.3
12.5°	4069.9	3690.7	2881.8	2060.8	1397.6	944.9	736.7	644.0	617.6	609.1	609.1
15°	3923.0	3454.8	2462.8	1549.2	958.2	678.9	589.8	564.5	554.9	552.5	552.5
17.5°	3766.5	3230.9	2084.9	1144.7	696.9	568.1	538.1	521.2	517.6	515.2	515.2
20°	3626.9	3005.8	1726.2	852.2	563.4	511.6	492.4	481.5	477.9	475.5	476.7
22.5°	3494.5	2806.0	1389.1	644.0	496.0	465.9	446.6	435.7	428.5	422.5	423.7
25°	3376.5	2613.3	1117.1	527.3	446.6	420.1	400.8	385.2	369.6	362.3	361.1
27.5°	3293.5	2444.8	870.3	451.4	402.1	373.2	349.1	329.8	309.4	298.6	296.1
30°	3224.9	2273.9	688.6	398.5	357.5	329.8	299.7	272.0	250.4	239.5	234.7
32.5°	3180.3	2111.4	542.9	355.1	320.2	286.5	252.8	225.1	201.0	190.2	187.8
35°	3173.1	1975.4	444.2	319.0	286.5	250.4	215.5	185.4	164.9	154.1	151.7
37.5°	3224.9	1870.6	371.9	290.1	258.8	219.1	180.6	152.8	134.8	126.4	125.2
40°	3363.3	1804.4	322.6	266.1	233.5	190.2	154.1	130.0	112.0	103.5	103.5
42.5°	3626.9	1806.9	290.1	243.1	208.3	162.5	131.2	108.4	92.7	85.5	83.1
45°	4038.6	1888.7	262.4	220.3	184.2	140.9	112.0	89.1	73.4	67.4	67.4
47.5°	4589.9	2051.1	238.3	197.4	162.5	120.3	95.1	72.2	59.0	52.9	52.9
50°	5310.9	2312.4	217.9	178.1	144.5	103.5	77.0	59.0	45.7	41.0	39.7
52.5°	6064.5	2635.0	193.8	161.3	123.9	87.9	62.6	45.7	34.9	31.3	30.1
55°	6896.3	2950.4	170.9	144.5	101.1	73.4	49.3	36.1	25.3	21.7	21.7
57.5°	7735.3	3259.8	143.2	120.3	79.5	54.2	38.5	26.5	16.8	13.2	13.2
60°	8445.5	3359.7	121.6	97.5	60.2	38.5	27.7	16.8	9.6	6.0	6.0
62.5°	8543.0	3022.6	102.3	74.6	43.3	26.5	14.4	9.6	3.6	2.4	2.4
65°	8013.4	2455.6	85.5	56.6	28.9	13.2	6.0	3.6	1.2	0.0	0.0
67°	7180.3	1991.0	69.8	42.1	20.4	8.5	3.6	1.2	0.0	0.0	0.0
67.5°	6967.3	1898.3	67.4	39.7	18.1	7.2	2.4	1.2	0.0	0.0	0.0
70°	5467.5	1421.6	48.2	24.0	10.8	4.8	0.0	0.0	0.0	0.0	0.0
72.5°	3398.1	804.1	34.9	14.4	7.2	2.4	0.0	0.0	0.0	0.0	0.0
75°	1284.4	281.6	24.0	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	399.6	107.1	14.4	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	134.8	41.0	9.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.1	16.8	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.8	7.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	2.4	1.2	0.0	0.0	0.0	0.0	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)