

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: P646769

Luminaire Tested: **GALN-SA2C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9069.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

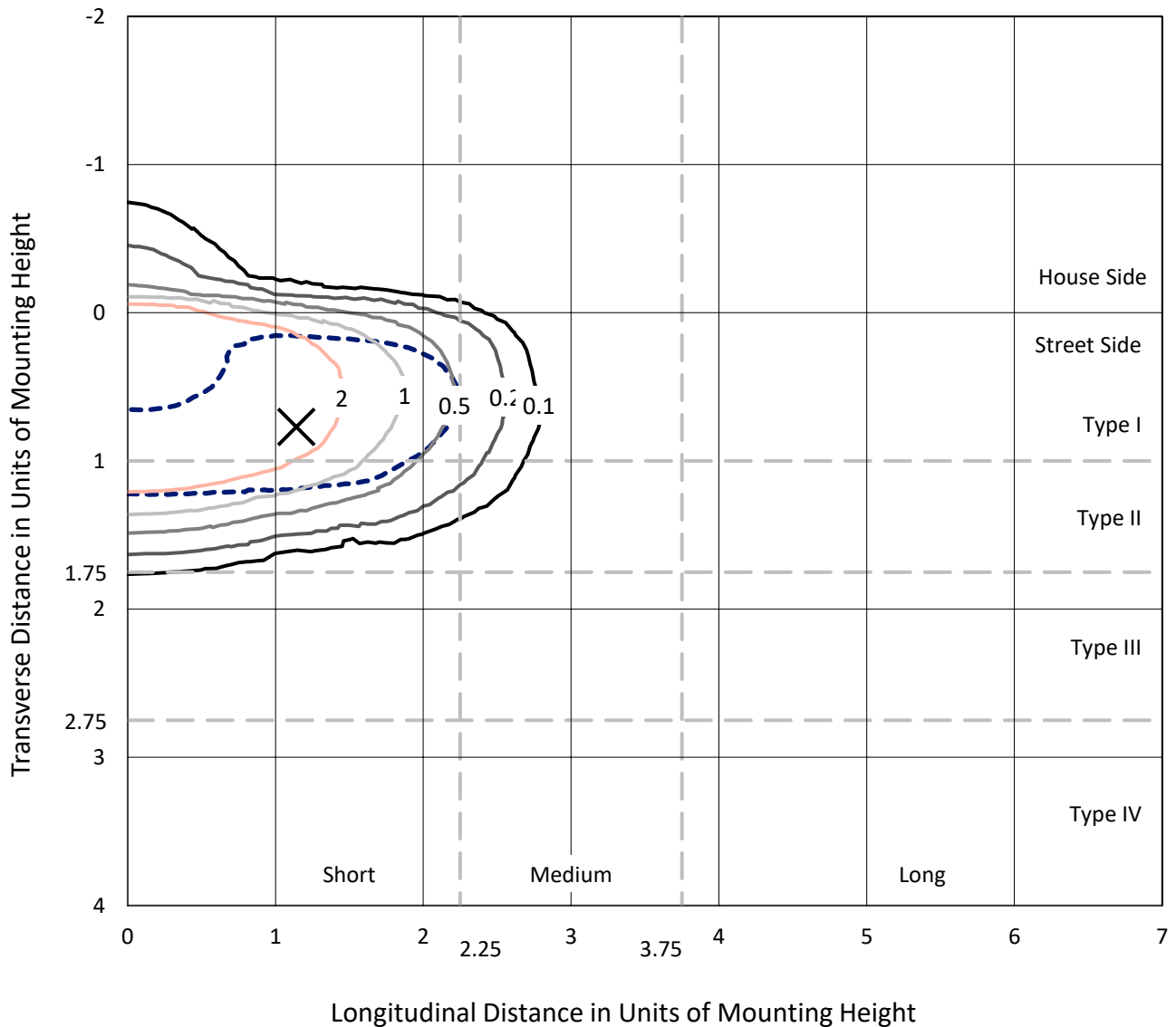
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

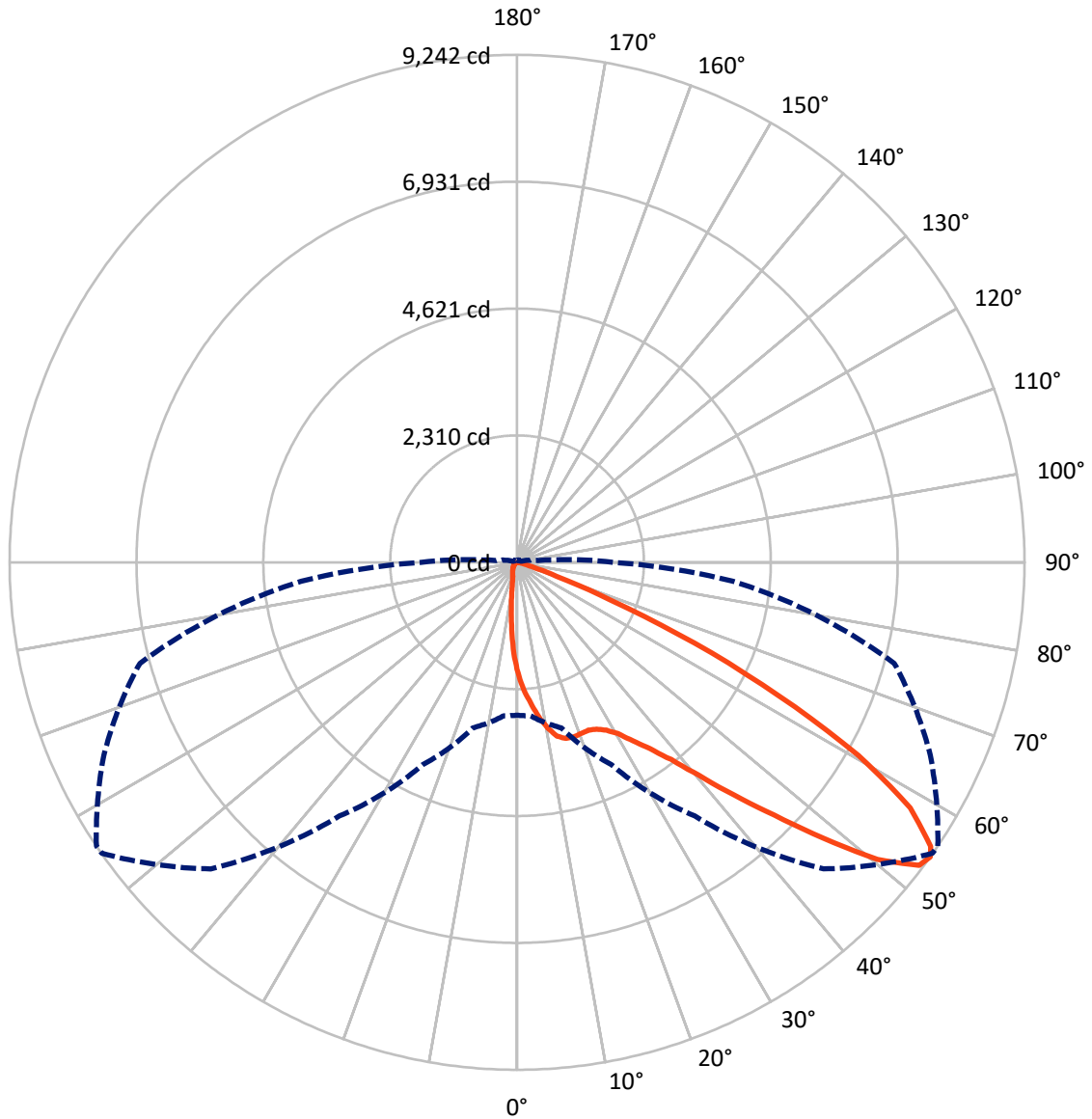
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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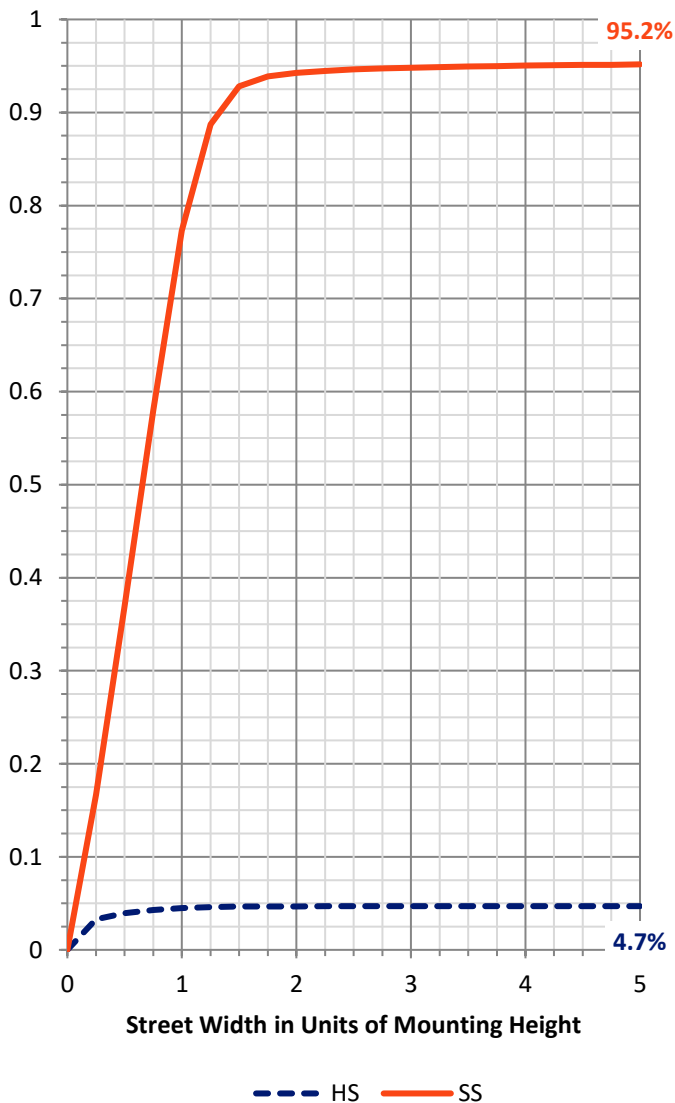
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.9	0.0	428.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8640.6	0.0	8640.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	9069.5	0.0	9069.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	2.0
10°-20°	481.3	5.3
20°-30°	833.6	9.2
30°-40°	1439.0	15.9
40°-50°	2449.2	27.0
50°-60°	2423.8	26.7
60°-70°	1106.3	12.2
70°-80°	142.1	1.6
80°-90°	16.0	0.2
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°	9069.5	100.0
0°-180°	9069.5	100.0

Coefficient of Utilization



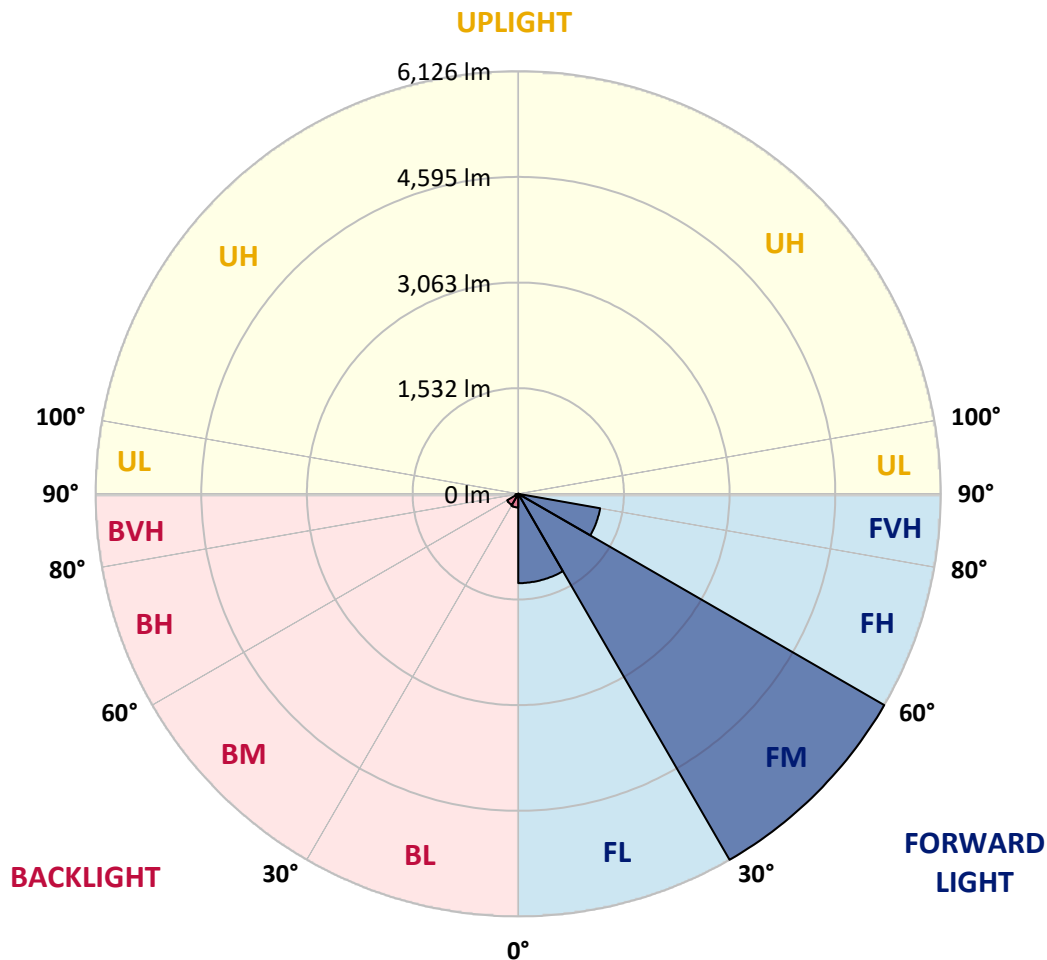
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.7	14.3			
FM (30°-60°)	6126.2	67.5			
FH (60°-80°)	1205.4	13.3			G1/1800
FVH (80°-90°)	14.3	0.2			G1/100
BL (0°-30°)	198.3	2.2	B1/500		
BM (30°-60°)	185.9	2.0	B0/220		
BH (60°-80°)	42.9	0.5	B0/110		G0/110
BVH (80°-90°)	1.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0
2.5°	2560.8	2543.0	2518.6	2499.6	2454.9	2390.7	2322.8	2322.8	2257.3	2166.1	2073.1
5°	2953.6	2942.0	2918.2	2869.2	2819.0	2729.1	2592.6	2568.7	2451.9	2286.7	2112.8
7.5°	3113.4	3118.8	3120.1	3107.2	3083.4	2994.7	2859.4	2842.9	2656.2	2434.7	2164.9
10°	2960.4	2987.3	3013.6	3066.9	3142.1	3163.5	3087.1	3069.9	2886.3	2584.7	2221.2
12.5°	2732.7	2747.4	2762.1	2846.0	2997.1	3170.2	3250.4	3249.8	3094.3	2733.9	2292.8
15°	2626.9	2639.7	2641.0	2678.3	2809.2	3061.3	3320.2	3329.3	3297.5	2918.2	2369.9
17.5°	2648.9	2659.3	2650.8	2659.9	2728.4	2941.4	3312.2	3342.8	3462.1	3095.0	2439.7
20°	2792.7	2812.9	2779.9	2754.1	2775.0	2909.5	3285.3	3328.1	3578.4	3267.5	2503.3
22.5°	3051.0	3061.9	3020.3	2950.0	2913.2	2976.3	3278.0	3320.2	3677.5	3408.9	2540.0
25°	3337.9	3334.2	3288.4	3209.4	3132.3	3110.9	3326.3	3364.2	3759.5	3536.2	2551.0
27.5°	3624.9	3635.9	3558.8	3460.9	3368.5	3312.8	3434.6	3462.7	3851.9	3681.2	2564.5
30°	3958.4	3940.6	3864.7	3752.8	3646.9	3569.2	3609.0	3616.9	3979.2	3873.3	2600.0
32.5°	4392.2	4343.2	4258.2	4062.4	3986.5	3854.9	3864.7	3874.5	4134.0	4063.6	2642.8
35°	4980.8	4978.4	4811.9	4548.2	4363.4	4200.1	4157.3	4165.2	4368.4	4346.3	2737.6
37.5°	5689.4	5699.2	5509.5	5244.0	4903.8	4644.3	4556.2	4557.5	4724.5	4736.7	2882.1
40°	6266.4	6292.1	6179.0	5999.7	5663.8	5258.0	5109.9	5096.5	5225.0	5209.7	3088.2
42.5°	6514.9	6538.8	6581.0	6643.4	6458.6	6123.8	5774.5	5792.9	5832.0	5724.9	3319.5
45°	6393.1	6431.0	6596.9	6982.4	7156.2	7043.6	6626.8	6562.6	6396.8	6284.8	3552.1
47.5°	5885.8	5978.2	6255.5	6897.3	7505.5	7886.1	7588.8	7503.7	6962.2	6693.6	3700.1
50°	5051.8	5057.3	5443.4	6264.0	7324.4	8417.9	8570.9	8507.2	7489.0	6923.1	3774.8
52.5°	3662.2	3782.8	4136.4	5086.7	6539.9	8337.1	9196.8	9170.5	8032.4	7040.5	3882.5
54°	2784.1	2807.4	3121.9	4064.9	5638.6	7893.5	9235.4	9241.5	8302.2	7111.4	3946.2
55°	2282.4	2226.7	2557.1	3462.7	5023.6	7501.2	9109.3	9138.7	8423.4	7148.2	3993.2
57.5°	1081.9	1082.4	1335.2	1826.5	3146.4	5824.7	8339.0	8442.9	8436.8	7211.2	4138.2
60°	547.6	551.3	607.0	843.2	1554.3	3872.1	6894.9	7142.7	7787.6	7220.4	4186.0
62.5°	383.0	378.7	369.6	405.7	654.1	1967.8	5133.2	5348.6	6616.4	6871.0	4034.3
65°	328.0	318.8	293.1	287.6	330.4	783.9	3197.1	3548.4	5051.8	5949.5	3602.3
67.5°	280.2	276.6	253.3	239.3	233.7	341.5	1649.7	1834.5	3453.0	4276.6	2728.4
70°	238.0	236.2	222.1	204.4	189.1	204.4	611.9	758.2	1924.5	2302.6	1287.4
72.5°	193.3	195.2	197.6	175.0	159.1	145.0	261.3	304.1	805.2	823.0	450.4
75°	169.5	167.6	167.6	152.4	132.8	107.7	143.8	154.8	246.6	228.9	104.6
77.5°	119.3	115.0	134.6	125.4	110.7	76.5	82.0	86.9	102.2	87.5	48.9
80°	82.6	82.6	86.3	112.6	99.8	55.7	50.2	53.9	60.6	52.0	28.1
82.5°	46.5	47.8	56.3	60.0	58.1	37.3	33.0	33.7	40.4	35.5	17.8
85°	5.5	9.2	32.4	31.8	23.9	16.5	18.3	18.9	25.1	22.0	10.4
87.5°	0.6	1.3	6.7	8.5	6.1	6.7	6.7	6.7	8.5	9.8	7.4
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°	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0	2015.0
2.5°	2023.0	1976.4	1865.7	1737.2	1655.2	1521.8	1409.2	1327.8	1307.6	1268.5	1280.1
5°	2020.5	1923.8	1698.0	1459.4	1204.8	1015.2	873.8	762.4	713.5	681.1	658.4
7.5°	2021.7	1870.6	1508.3	1128.3	824.3	638.2	507.2	439.3	394.1	375.1	377.6
10°	2025.4	1810.6	1288.0	835.9	556.2	412.4	332.2	299.8	284.5	282.1	281.5
12.5°	2033.9	1745.2	1077.6	620.4	389.2	299.8	269.3	258.2	253.3	253.3	251.5
15°	2043.2	1673.0	902.6	461.3	299.8	257.6	243.5	238.0	235.0	235.0	234.4
17.5°	2043.2	1589.7	739.2	358.0	258.2	236.8	225.8	218.5	216.0	216.0	215.4
20°	2030.2	1493.0	594.1	288.2	234.4	217.2	206.2	198.3	195.2	193.9	193.3
22.5°	1985.6	1363.9	473.0	247.8	214.8	200.1	186.0	176.8	174.4	173.2	173.7
25°	1906.1	1218.3	374.5	217.8	197.0	179.3	167.0	160.3	157.9	157.9	158.5
27.5°	1824.1	1065.9	296.8	195.2	175.6	159.7	149.9	145.6	145.0	146.9	147.4
30°	1748.2	913.0	240.5	176.8	156.7	143.2	136.5	135.2	135.2	135.9	136.5
32.5°	1663.7	778.9	201.3	160.9	141.3	129.7	126.1	126.1	127.2	127.2	128.5
35°	1610.6	663.9	176.8	145.6	129.7	120.0	117.4	118.1	120.0	122.4	123.6
37.5°	1581.7	572.1	160.9	133.4	118.7	112.0	109.5	110.7	115.0	119.3	120.0
40°	1584.2	503.0	148.1	123.0	110.2	102.8	100.9	104.6	108.9	113.2	113.8
42.5°	1611.1	451.6	135.9	110.7	102.8	92.4	91.8	95.4	97.3	101.6	102.2
45°	1643.0	414.3	123.0	97.9	89.3	80.2	80.8	83.9	86.3	93.0	94.2
47.5°	1652.8	388.5	108.3	83.2	73.4	70.4	71.0	72.8	77.7	83.9	84.4
50°	1663.7	372.6	94.2	70.4	62.4	61.8	62.4	63.7	66.7	69.1	68.5
52.5°	1710.9	372.0	82.6	61.2	53.2	54.5	55.0	54.5	52.0	48.3	47.1
54°	1754.9	373.9	77.1	56.9	48.9	50.8	50.2	47.1	41.0	37.3	35.5
55°	1790.4	375.7	74.1	53.9	46.5	47.1	47.8	41.6	33.7	30.0	28.7
57.5°	1860.2	371.5	66.7	47.1	41.0	38.5	38.0	27.6	18.3	15.9	14.7
60°	1825.3	335.4	60.6	40.4	34.8	31.2	25.7	15.3	9.2	6.7	6.7
62.5°	1688.2	284.5	53.9	33.0	28.7	23.9	13.5	8.5	4.3	2.4	1.8
65°	1510.2	239.3	48.3	26.3	22.6	15.3	7.4	5.5	1.8	0.0	0.0
67.5°	1122.8	177.4	41.0	20.8	17.1	9.8	4.9	3.1	0.6	0.0	0.0
70°	520.1	108.3	34.8	15.9	12.2	7.4	3.7	1.8	0.0	0.0	0.0
72.5°	149.3	67.9	28.7	11.6	8.5	6.1	3.1	1.3	0.6	0.0	0.0
75°	52.0	54.5	21.5	8.5	6.7	4.3	2.4	1.3	0.6	0.0	0.0
77.5°	31.2	44.1	13.5	7.4	5.5	3.7	2.4	1.3	0.6	0.6	0.0
80°	17.8	29.4	8.5	6.1	4.9	3.1	1.8	1.3	0.6	0.6	0.0
82.5°	9.8	14.1	6.7	5.5	4.3	3.1	1.8	1.3	0.6	0.6	0.6
85°	8.0	7.4	5.5	4.9	3.7	2.4	1.8	0.6	0.0	0.0	0.0
87.5°	6.1	4.9	4.9	4.9	3.7	2.4	1.8	0.6	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)