

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: P458719

Luminaire Tested: **GALN-SA2D-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458719
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-SA2D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 11873 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

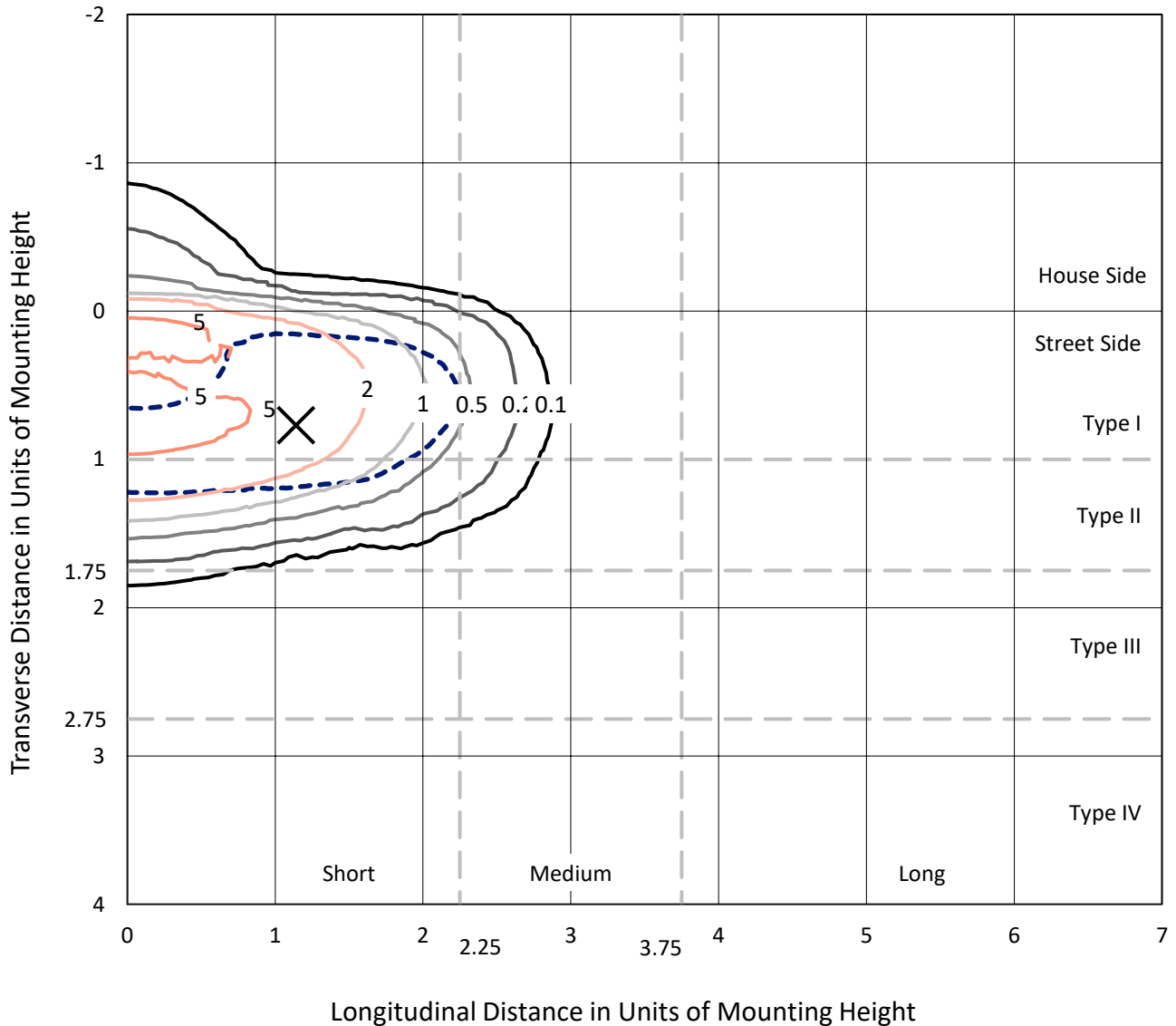
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

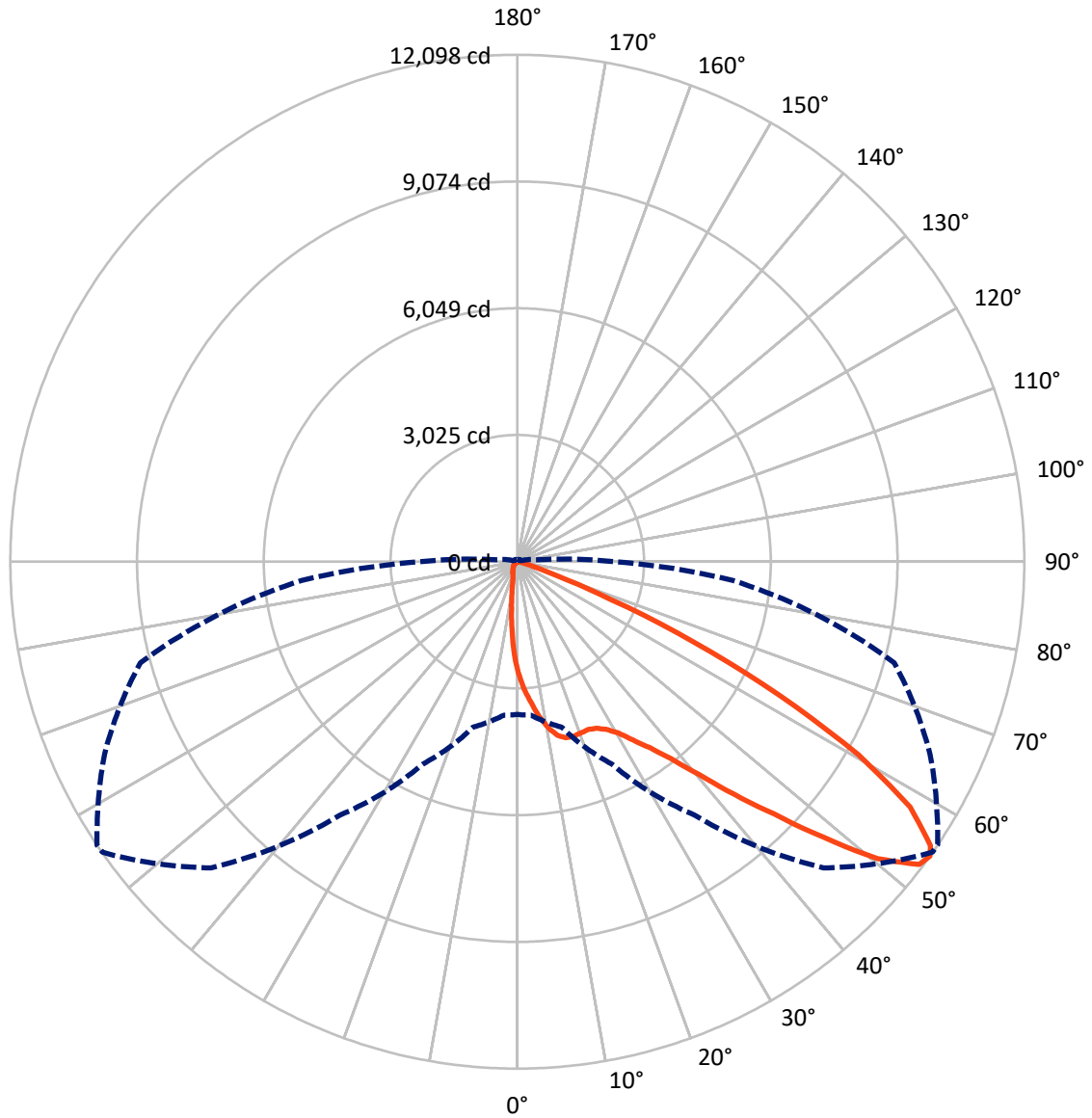
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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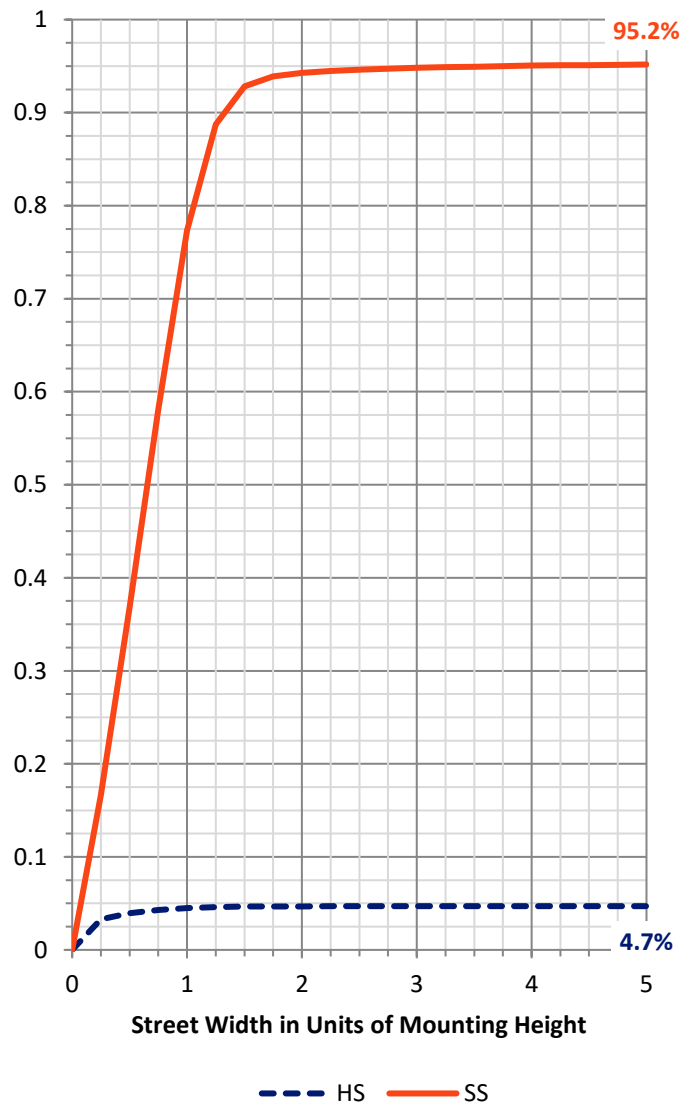
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	561.4	0.0	561.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11311.5	0.0	11311.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	11873.0	0.0	11873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	2.0
10°-20°	630.1	5.3
20°-30°	1091.3	9.2
30°-40°	1883.8	15.9
40°-50°	3206.3	27.0
50°-60°	3173.1	26.7
60°-70°	1448.2	12.2
70°-80°	186.0	1.6
80°-90°	21.0	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°	11873.0	100.0
0°-180°	11873.0	100.0



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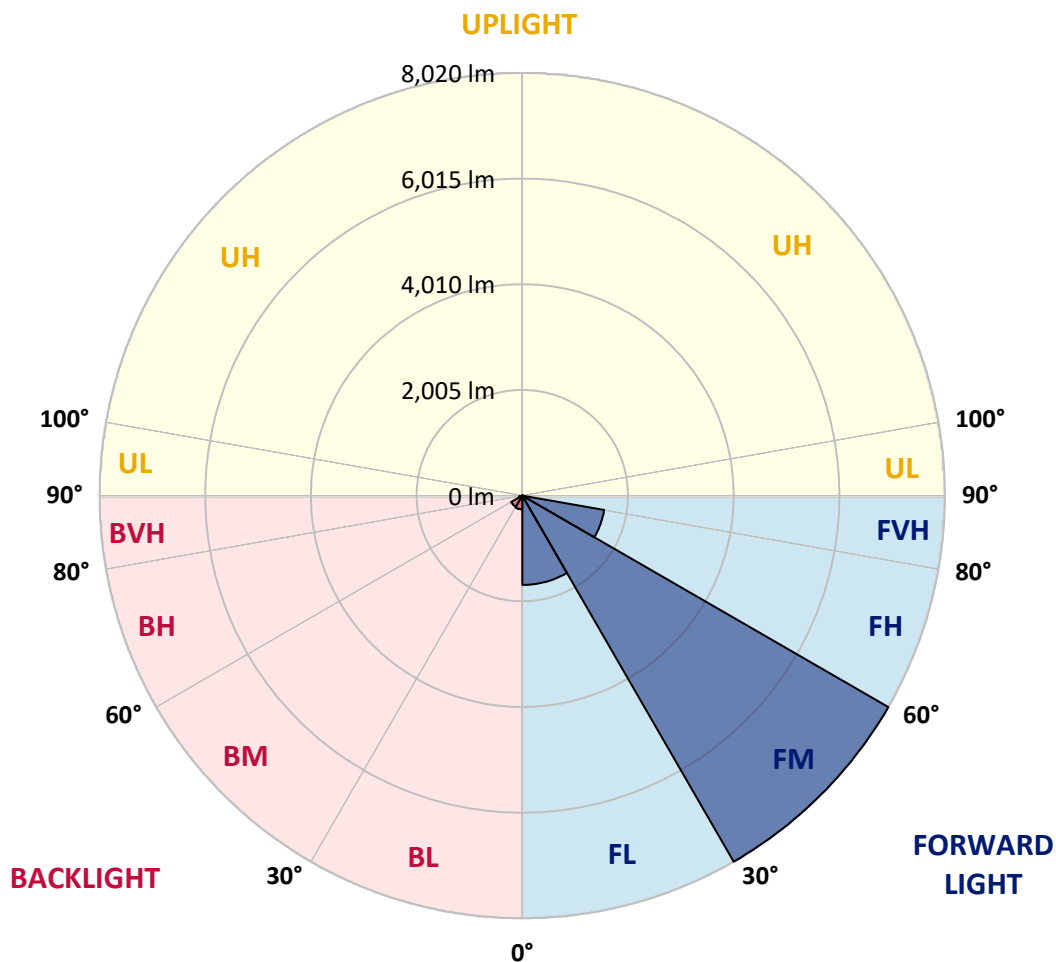
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1694.9	14.3			
FM (30°-60°)	8019.9	67.5			
FH (60°-80°)	1578.0	13.3			G1/1800
FVH (80°-90°)	18.7	0.2			G1/100
BL (0°-30°)	259.7	2.2	B1/500		
BM (30°-60°)	243.3	2.0	B1/1000		
BH (60°-80°)	56.2	0.5	B0/110		G0/110
BVH (80°-90°)	2.2	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°	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8
2.5°	3352.4	3329.1	3297.1	3272.3	3213.8	3129.7	3040.8	3040.8	2955.1	2835.7	2713.9
5°	3866.6	3851.4	3820.2	3756.1	3690.4	3572.7	3394.0	3362.8	3209.8	2993.5	2766.0
7.5°	4075.7	4082.9	4084.5	4067.7	4036.5	3920.3	3743.3	3721.7	3477.3	3187.4	2834.1
10°	3875.5	3910.7	3945.1	4014.8	4113.4	4141.4	4041.3	4018.8	3778.5	3383.6	2907.8
12.5°	3577.5	3596.7	3615.9	3725.7	3923.5	4150.2	4255.1	4254.3	4050.9	3579.1	3001.5
15°	3438.9	3455.7	3457.3	3506.2	3677.6	4007.6	4346.5	4358.5	4316.8	3820.2	3102.4
17.5°	3467.7	3481.3	3470.1	3482.1	3571.9	3850.6	4336.1	4376.1	4532.3	4051.7	3193.8
20°	3656.0	3682.4	3639.1	3605.5	3632.7	3809.0	4300.8	4356.9	4684.5	4277.6	3277.1
22.5°	3994.0	4008.4	3954.0	3861.8	3813.8	3896.3	4291.2	4346.5	4814.3	4462.6	3325.1
25°	4369.7	4364.9	4304.8	4201.5	4100.5	4072.5	4354.5	4404.1	4921.6	4629.2	3339.6
27.5°	4745.4	4759.8	4658.9	4530.7	4409.7	4336.9	4496.3	4533.1	5042.6	4819.1	3357.2
30°	5182.0	5158.7	5059.4	4912.8	4774.2	4672.5	4724.6	4735.0	5209.2	5070.6	3403.6
32.5°	5749.9	5685.8	5574.5	5318.1	5218.8	5046.6	5059.4	5072.2	5411.9	5319.7	3459.7
35°	6520.5	6517.3	6299.4	5954.2	5712.2	5498.4	5442.3	5452.7	5718.7	5689.8	3583.9
37.5°	7448.1	7460.9	7212.6	6865.0	6419.6	6079.9	5964.6	5966.2	6184.9	6200.9	3772.9
40°	8203.5	8237.1	8088.9	7854.2	7414.5	6883.4	6689.5	6671.9	6840.1	6820.1	4042.9
42.5°	8528.7	8560.0	8615.2	8696.9	8455.0	8016.9	7559.5	7583.5	7634.8	7494.6	4345.7
45°	8369.3	8419.0	8636.1	9140.7	9368.2	9220.8	8675.3	8591.2	8374.1	8227.5	4650.1
47.5°	7705.2	7826.2	8189.1	9029.4	9825.6	10323.9	9934.6	9823.2	9114.3	8762.6	4843.9
50°	6613.4	6620.6	7126.1	8200.3	9588.5	11020.0	11220.2	11136.9	9804.0	9063.0	4941.6
52.5°	4794.3	4952.1	5415.1	6659.1	8561.6	10914.2	12039.7	12005.3	10515.3	9216.8	5082.6
54°	3644.8	3675.2	4086.9	5321.3	7381.6	10333.5	12090.2	12098.2	10868.6	9309.7	5165.9
55°	2987.9	2915.0	3347.6	4533.1	6576.6	9820.0	11925.1	11963.6	11027.2	9357.8	5227.6
57.5°	1416.2	1417.0	1747.9	2391.1	4119.0	7625.1	10916.6	11052.8	11044.8	9440.3	5417.5
60°	716.9	721.7	794.6	1103.8	2034.7	5069.0	9026.2	9350.6	10194.9	9452.3	5479.9
62.5°	501.5	495.8	483.8	531.1	856.3	2576.2	6720.0	7001.9	8661.7	8994.9	5281.3
65°	429.4	417.3	383.7	376.5	432.6	1026.1	4185.5	4645.3	6613.4	7788.6	4715.7
67.5°	366.9	362.1	331.6	313.2	306.0	447.0	2159.6	2401.5	4520.3	5598.5	3571.9
70°	311.6	309.2	290.8	267.5	247.5	267.5	801.0	992.5	2519.3	3014.3	1685.4
72.5°	253.1	255.5	258.7	229.1	208.3	189.8	342.0	398.1	1054.2	1077.4	589.6
75°	221.9	219.5	219.5	199.5	173.8	141.0	188.2	202.7	322.8	299.6	137.0
77.5°	156.2	150.6	176.2	164.2	145.0	100.1	107.3	113.7	133.8	114.5	64.1
80°	108.1	108.1	112.9	147.4	130.6	72.9	65.7	70.5	79.3	68.1	36.8
82.5°	60.9	62.5	73.7	78.5	76.1	48.9	43.3	44.1	52.9	46.5	23.2
85°	7.2	12.0	42.5	41.7	31.2	21.6	24.0	24.8	32.8	28.8	13.6
87.5°	0.8	1.6	8.8	11.2	8.0	8.8	8.8	8.8	11.2	12.8	9.6
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°	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8	2637.8
2.5°	2648.3	2587.4	2442.4	2274.2	2166.8	1992.2	1844.8	1738.3	1711.8	1660.6	1675.8
5°	2645.0	2518.5	2222.9	1910.5	1577.3	1328.9	1143.9	998.1	934.0	891.6	861.9
7.5°	2646.7	2448.8	1974.6	1477.1	1079.0	835.5	664.1	575.1	515.9	491.0	494.2
10°	2651.5	2370.3	1686.2	1094.2	728.1	539.9	435.0	392.5	372.5	369.3	368.5
12.5°	2662.7	2284.6	1410.6	812.3	509.5	392.5	352.5	338.0	331.6	331.6	329.2
15°	2674.7	2190.1	1181.5	604.0	392.5	337.2	318.8	311.6	307.6	307.6	306.8
17.5°	2674.7	2081.1	967.7	468.6	338.0	310.0	295.6	286.0	282.8	282.8	282.0
20°	2657.9	1954.5	777.8	377.3	306.8	284.4	270.0	259.5	255.5	253.9	253.1
22.5°	2599.4	1785.5	619.2	324.4	281.2	261.9	243.5	231.5	228.3	226.7	227.5
25°	2495.3	1594.9	490.2	285.2	257.9	234.7	218.7	209.9	206.7	206.7	207.5
27.5°	2387.9	1395.4	388.5	255.5	229.9	209.1	196.3	190.6	189.8	192.3	193.1
30°	2288.6	1195.2	314.8	231.5	205.1	187.4	178.6	177.0	177.0	177.8	178.6
32.5°	2178.0	1019.7	263.5	210.7	185.0	169.8	165.0	165.0	166.6	166.6	168.2
35°	2108.3	869.1	231.5	190.6	169.8	157.0	153.8	154.6	157.0	160.2	161.8
37.5°	2070.7	749.0	210.7	174.6	155.4	146.6	143.4	145.0	150.6	156.2	157.0
40°	2073.9	658.5	193.9	161.0	144.2	134.6	132.2	137.0	142.6	148.2	149.0
42.5°	2109.1	591.2	177.8	145.0	134.6	121.0	120.2	125.0	127.4	133.0	133.8
45°	2150.8	542.3	161.0	128.2	117.0	104.9	105.7	109.7	112.9	121.8	123.4
47.5°	2163.6	508.7	141.8	108.9	96.1	92.1	92.9	95.3	101.7	109.7	110.5
50°	2178.0	487.8	123.4	92.1	81.7	80.9	81.7	83.3	87.3	90.5	89.7
52.5°	2239.7	487.0	108.1	80.1	69.7	71.3	72.1	71.3	68.1	63.3	61.7
54°	2297.4	489.4	100.9	74.5	64.1	66.5	65.7	61.7	53.7	48.9	46.5
55°	2343.9	491.8	96.9	70.5	60.9	61.7	62.5	54.5	44.1	39.3	37.6
57.5°	2435.2	486.2	87.3	61.7	53.7	50.5	49.7	36.0	24.0	20.8	19.2
60°	2389.5	439.0	79.3	52.9	45.7	40.9	33.6	20.0	12.0	8.8	8.8
62.5°	2210.1	372.5	70.5	43.3	37.6	31.2	17.6	11.2	5.6	3.2	2.4
65°	1977.0	313.2	63.3	34.4	29.6	20.0	9.6	7.2	2.4	0.0	0.0
67.5°	1469.9	232.3	53.7	27.2	22.4	12.8	6.4	4.0	0.8	0.0	0.0
70°	680.9	141.8	45.7	20.8	16.0	9.6	4.8	2.4	0.0	0.0	0.0
72.5°	195.5	88.9	37.6	15.2	11.2	8.0	4.0	1.6	0.8	0.0	0.0
75°	68.1	71.3	28.0	11.2	8.8	5.6	3.2	1.6	0.8	0.0	0.0
77.5°	40.9	57.7	17.6	9.6	7.2	4.8	3.2	1.6	0.8	0.8	0.0
80°	23.2	38.5	11.2	8.0	6.4	4.0	2.4	1.6	0.8	0.8	0.0
82.5°	12.8	18.4	8.8	7.2	5.6	4.0	2.4	1.6	0.8	0.8	0.8
85°	10.4	9.6	7.2	6.4	4.8	3.2	2.4	0.8	0.0	0.0	0.0
87.5°	8.0	6.4	6.4	6.4	4.8	3.2	2.4	0.8	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)