

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: P452574

Luminaire Tested: **GALN-SA3C-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17177 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

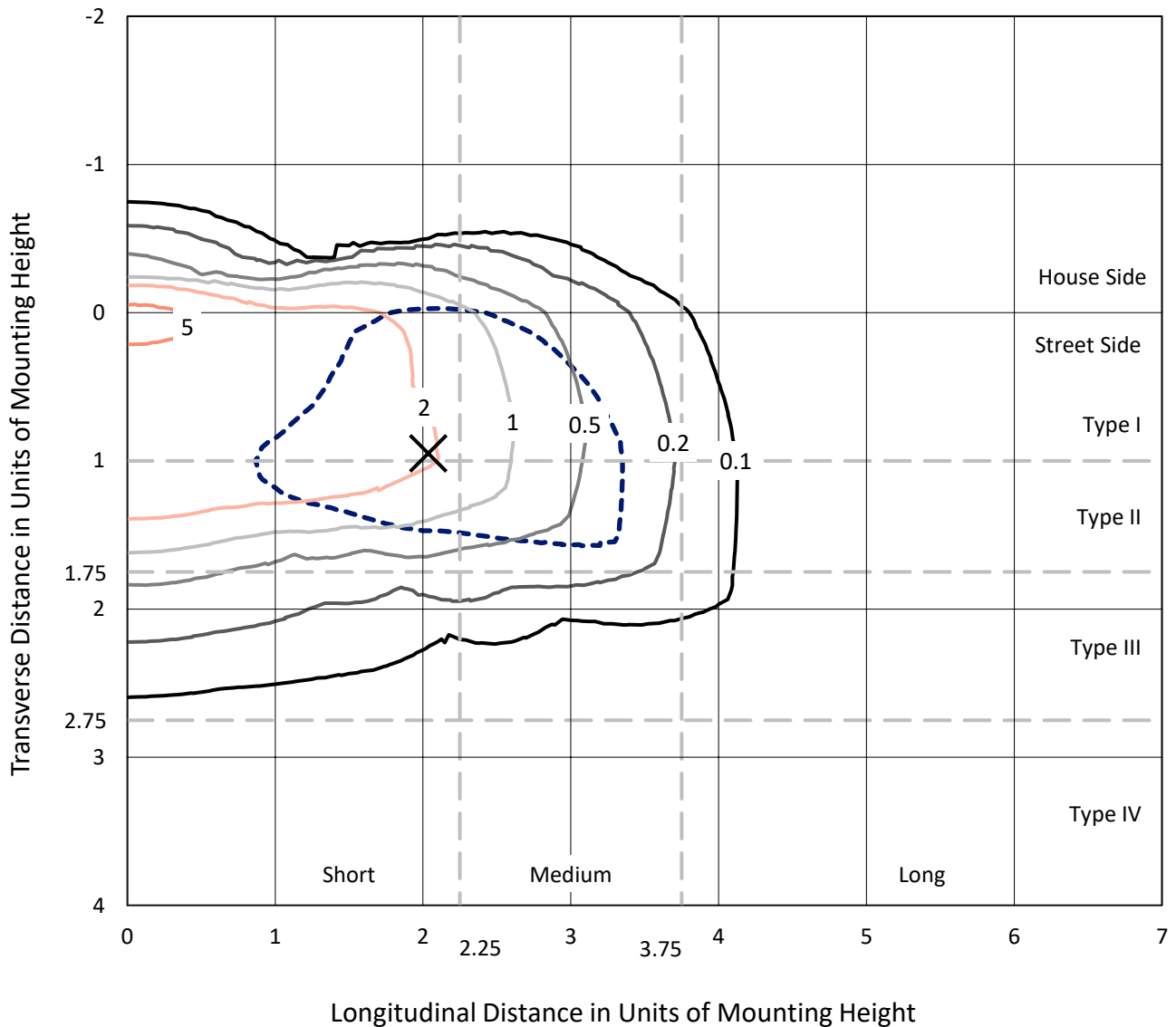
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

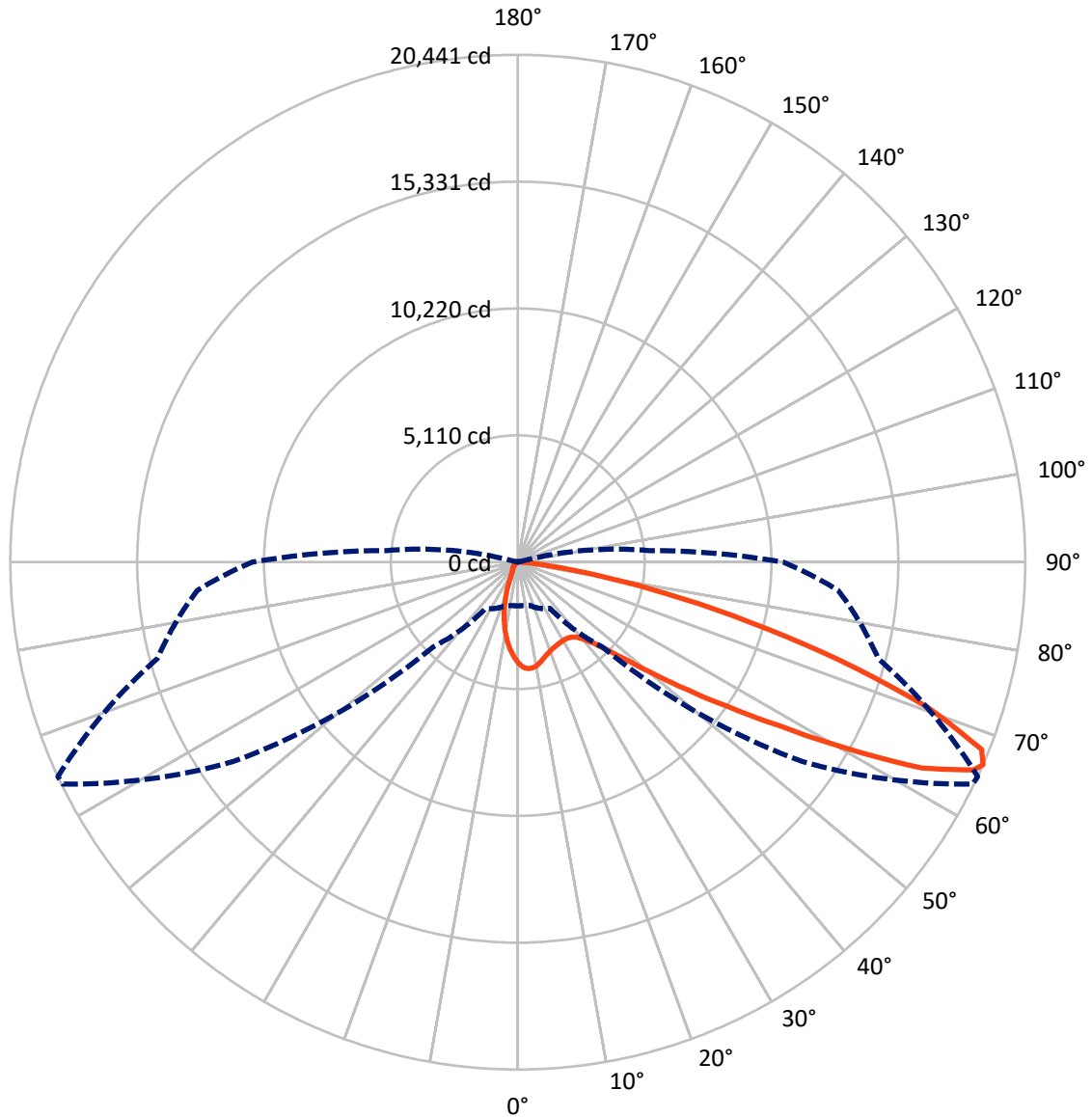
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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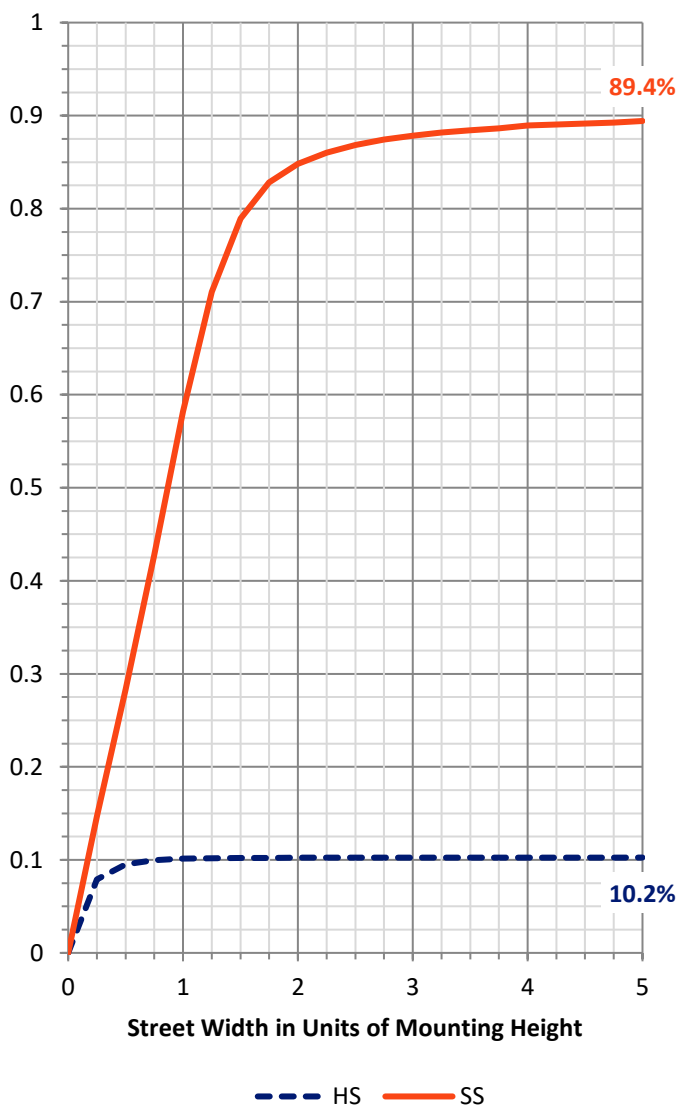
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.3	0.0	1776.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15400.7	0.0	15400.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	17177.0	0.0	17177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.1	1.9
10°-20°	725.8	4.2
20°-30°	1039.8	6.1
30°-40°	1518.7	8.8
40°-50°	2546.6	14.8
50°-60°	4249.8	24.7
60°-70°	4511.1	26.3
70°-80°	2043.0	11.9
80°-90°	209.0	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°	17177.0	100.0
0°-180°	17177.0	100.0

Coefficient of Utilization



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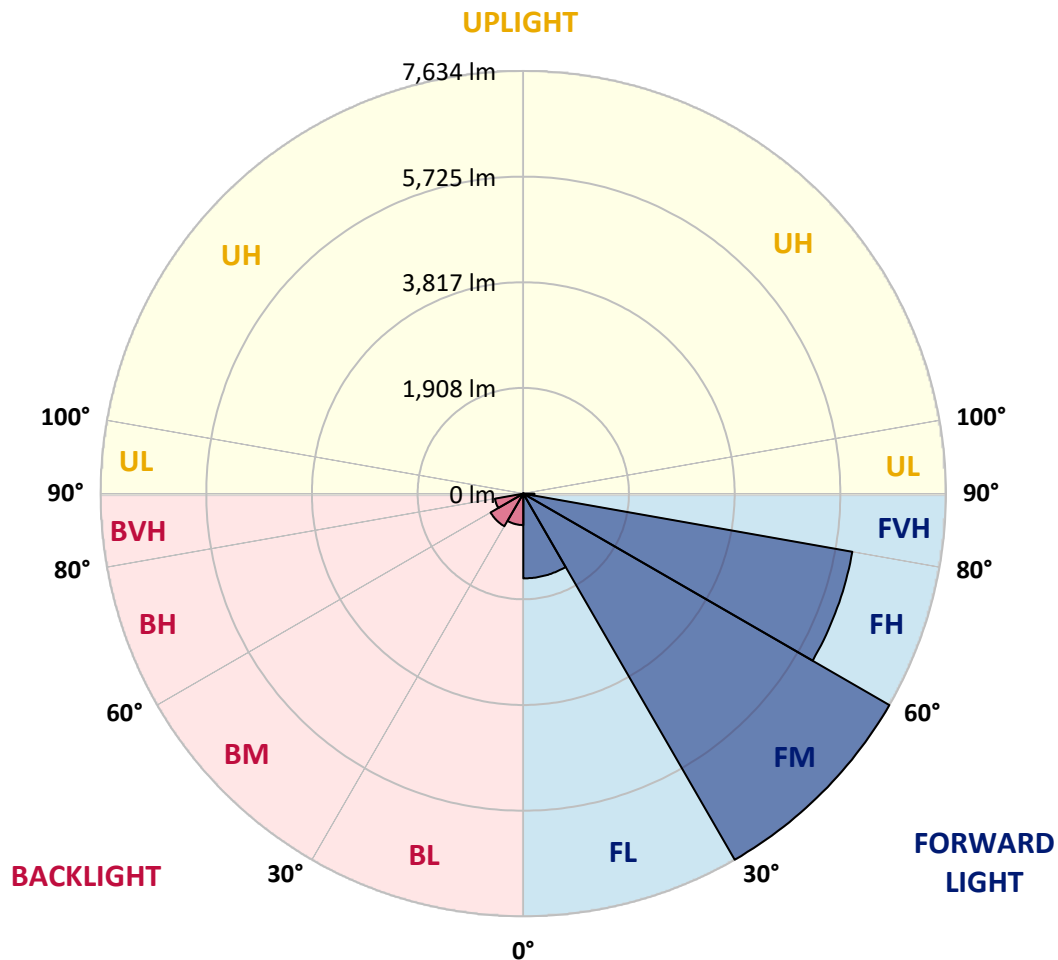
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.5	8.9			
FM (30°-60°)	7633.9	44.4			
FH (60°-80°)	6033.9	35.1			G3/7500
FVH (80°-90°)	202.4	1.2			G2/225
BL (0°-30°)	568.2	3.3	B2/1000		
BM (30°-60°)	681.2	4.0	B1/1000		
BH (60°-80°)	520.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3
2.5°	4292.6	4297.2	4303.0	4311.1	4316.9	4299.5	4275.2	4247.3	4241.5	4182.4	4110.4
5°	4062.9	4069.8	4120.9	4148.7	4211.4	4268.2	4304.2	4308.8	4306.5	4250.8	4135.9
7.5°	3735.7	3755.4	3805.3	3854.0	3971.2	4079.1	4206.7	4296.0	4301.9	4286.8	4144.1
10°	3470.0	3482.8	3508.3	3604.6	3702.1	3866.8	4045.5	4213.7	4227.6	4287.9	4137.1
12.5°	3262.4	3280.9	3312.2	3386.5	3503.7	3659.1	3862.2	4088.4	4117.4	4265.9	4117.4
15°	3117.3	3126.6	3157.9	3231.0	3344.7	3488.6	3693.9	3957.3	3982.8	4236.9	4113.9
17.5°	3048.9	3059.3	3081.4	3139.4	3233.3	3366.8	3567.5	3851.7	3884.2	4218.3	4126.7
20°	3067.4	3076.7	3077.9	3108.1	3171.9	3284.4	3474.7	3753.1	3794.9	4206.7	4147.6
22.5°	3173.0	3174.2	3160.3	3146.3	3168.4	3249.6	3417.8	3690.4	3733.4	4204.4	4171.9
25°	3330.8	3334.3	3311.1	3262.4	3218.3	3260.0	3405.1	3649.8	3688.1	4198.6	4187.0
27.5°	3548.9	3547.8	3540.8	3459.6	3334.3	3306.4	3415.5	3627.8	3660.3	4182.4	4192.8
30°	3854.0	3844.7	3829.7	3738.0	3546.6	3419.0	3459.6	3613.9	3644.0	4159.2	4177.7
32.5°	4154.5	4189.3	4187.0	4100.0	3861.0	3619.7	3551.2	3632.4	3654.5	4144.1	4155.7
35°	4504.9	4503.7	4593.0	4560.6	4281.0	3876.1	3707.9	3693.9	3711.3	4154.5	4145.2
37.5°	4829.7	4859.9	4999.1	5032.7	4777.5	4238.0	3929.4	3826.2	3832.0	4225.3	4170.8
40°	5234.6	5292.6	5500.3	5612.8	5387.8	4775.2	4256.6	4068.7	4069.8	4399.3	4267.0
42.5°	5756.7	5848.3	6042.1	6230.0	6109.4	5411.0	4747.3	4452.7	4450.4	4705.6	4487.5
45°	6391.3	6455.1	6675.5	6973.7	6897.1	6298.5	5462.0	5047.8	5017.7	5207.9	4878.4
47.5°	6938.9	7025.9	7249.8	7589.7	7937.8	7382.1	6315.9	5865.7	5846.0	6007.3	5549.0
50°	7177.9	7254.4	7490.0	7966.8	8810.2	8804.4	7587.4	7059.5	7025.9	7112.9	6586.2
52.5°	6915.7	6987.6	7225.4	7819.4	9220.9	10537.7	9429.7	8557.3	8516.7	8405.3	7825.2
55°	6017.7	6076.9	6428.4	7110.6	9063.1	11693.2	11968.1	10407.7	10250.0	9817.2	9227.9
57.5°	4791.4	4761.3	4979.4	5771.8	8137.3	12080.7	14573.9	12713.0	12431.0	11037.7	10414.7
60°	3320.4	3413.2	3501.3	4023.4	6118.7	11409.0	16194.6	15611.0	15239.8	12238.5	11551.7
62.5°	2441.0	2502.5	2560.5	2801.8	3847.1	9109.5	16481.1	18588.0	18258.5	13513.5	12636.4
65°	1930.5	1935.1	1958.3	2196.2	2534.9	5923.7	15104.0	20266.7	20182.0	14740.9	13076.1
66°	1758.8	1760.0	1795.9	2051.2	2275.1	4823.9	14000.7	20394.3	20440.8	15035.6	12947.3
67.5°	1537.2	1532.6	1584.8	1843.5	2072.0	3478.1	12026.2	19876.9	20151.9	15261.8	12484.4
70°	1191.5	1185.7	1249.5	1546.5	1908.5	2320.3	7993.5	17067.0	17510.2	14798.9	11045.8
72.5°	793.5	798.2	907.2	1220.5	1821.4	2043.0	4808.8	12983.3	13609.8	12221.1	8689.6
75°	462.9	471.0	595.2	907.2	1581.3	1947.9	2721.7	9258.0	9658.3	8439.0	5413.3
77.5°	242.5	246.0	333.0	598.6	1212.4	1808.7	1813.3	5914.5	6102.4	4101.1	2142.8
80°	128.8	125.3	178.7	360.8	834.2	1588.3	1471.1	3131.3	3255.4	1218.2	541.8
82.5°	48.7	53.4	95.1	236.7	493.1	1140.4	1266.9	1384.1	1341.1	268.0	227.4
85°	9.3	11.6	40.6	140.4	248.3	476.8	933.9	678.7	628.8	100.9	131.1
87.5°	1.2	2.3	11.6	33.6	36.0	161.3	276.1	187.9	162.4	37.1	54.5
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°	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3	4073.3
2.5°	4075.6	4044.3	3939.9	3836.6	3731.1	3635.9	3571.0	3465.4	3438.7	3400.4	3378.4
5°	4067.5	3994.4	3793.7	3574.4	3370.2	3149.8	2981.6	2819.2	2732.2	2688.1	2671.8
7.5°	4044.3	3928.3	3615.0	3271.6	2944.5	2615.0	2328.4	2110.3	1969.9	1873.6	1808.7
10°	3997.9	3837.8	3407.4	2935.2	2441.0	2005.9	1642.8	1366.7	1153.2	1085.9	1088.2
12.5°	3950.3	3736.9	3175.3	2561.6	1949.1	1400.3	1015.1	797.0	694.9	661.3	654.3
15°	3906.2	3640.6	2948.0	2199.7	1451.4	907.2	654.3	577.8	549.9	544.1	543.0
17.5°	3883.0	3551.2	2705.5	1785.5	1012.8	616.0	524.4	503.5	495.4	489.6	487.3
20°	3863.3	3473.5	2473.4	1398.0	692.6	504.7	469.9	450.1	436.2	430.4	426.9
22.5°	3849.4	3393.5	2233.3	1082.4	530.2	447.8	416.5	391.0	371.2	364.3	359.6
25°	3828.5	3305.3	1990.8	791.2	446.7	397.9	362.0	331.8	306.3	293.5	291.2
27.5°	3798.3	3205.5	1725.1	585.9	399.1	353.8	309.8	272.6	247.1	233.2	234.4
30°	3749.6	3101.1	1459.5	465.2	360.8	308.6	261.0	225.1	200.7	190.3	189.1
32.5°	3691.6	2974.6	1215.8	399.1	326.0	268.0	218.1	186.8	168.2	160.1	158.9
35°	3637.1	2847.0	967.6	358.5	290.0	230.9	183.3	156.6	142.7	135.7	136.9
37.5°	3606.9	2733.3	754.1	326.0	261.0	198.4	157.8	134.6	121.8	116.0	114.9
40°	3626.6	2640.5	599.8	297.0	228.6	170.5	135.7	116.0	103.3	95.1	95.1
42.5°	3719.5	2599.9	483.8	269.2	198.4	147.3	118.3	99.8	85.9	77.7	78.9
45°	4002.5	2642.8	404.9	243.6	170.5	127.6	102.1	82.4	69.6	63.8	62.6
47.5°	4472.4	2804.1	350.4	216.9	146.2	109.1	85.9	68.4	55.7	51.0	49.9
50°	5293.8	3137.1	309.8	190.3	124.1	92.8	70.8	54.5	44.1	39.4	39.4
52.5°	6423.8	3863.3	280.8	160.1	104.4	78.9	58.0	44.1	34.8	31.3	30.2
55°	7604.8	4629.0	265.7	134.6	87.0	65.0	46.4	34.8	26.7	23.2	22.0
57.5°	8740.6	5230.0	248.3	109.1	69.6	49.9	36.0	26.7	18.6	16.2	15.1
60°	9830.0	5716.1	211.1	87.0	54.5	36.0	26.7	18.6	12.8	10.4	10.4
62.5°	10804.5	5999.2	165.9	69.6	41.8	25.5	17.4	13.9	9.3	7.0	7.0
65°	10918.2	5631.4	125.3	53.4	30.2	16.2	10.4	10.4	7.0	4.6	4.6
66°	10689.7	5319.3	110.2	48.7	26.7	13.9	9.3	8.1	5.8	3.5	3.5
67.5°	10179.2	4786.8	95.1	41.8	22.0	10.4	7.0	7.0	4.6	2.3	2.3
70°	8795.1	3909.7	75.4	31.3	16.2	8.1	4.6	4.6	3.5	2.3	2.3
72.5°	6703.4	2918.9	61.5	23.2	11.6	5.8	3.5	3.5	3.5	2.3	2.3
75°	4043.1	1572.0	47.6	17.4	10.4	4.6	2.3	3.5	4.6	3.5	2.3
77.5°	1489.6	534.8	37.1	13.9	8.1	4.6	2.3	2.3	4.6	3.5	3.5
80°	365.4	139.2	26.7	11.6	8.1	4.6	2.3	2.3	4.6	4.6	4.6
82.5°	169.4	59.2	18.6	10.4	8.1	4.6	2.3	2.3	3.5	4.6	4.6
85°	97.5	27.8	15.1	11.6	8.1	4.6	2.3	2.3	3.5	4.6	4.6
87.5°	39.4	13.9	13.9	11.6	9.3	5.8	2.3	2.3	2.3	3.5	3.5
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)