

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: P652337

Luminaire Tested: **GALN-SA4B-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15571.9 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

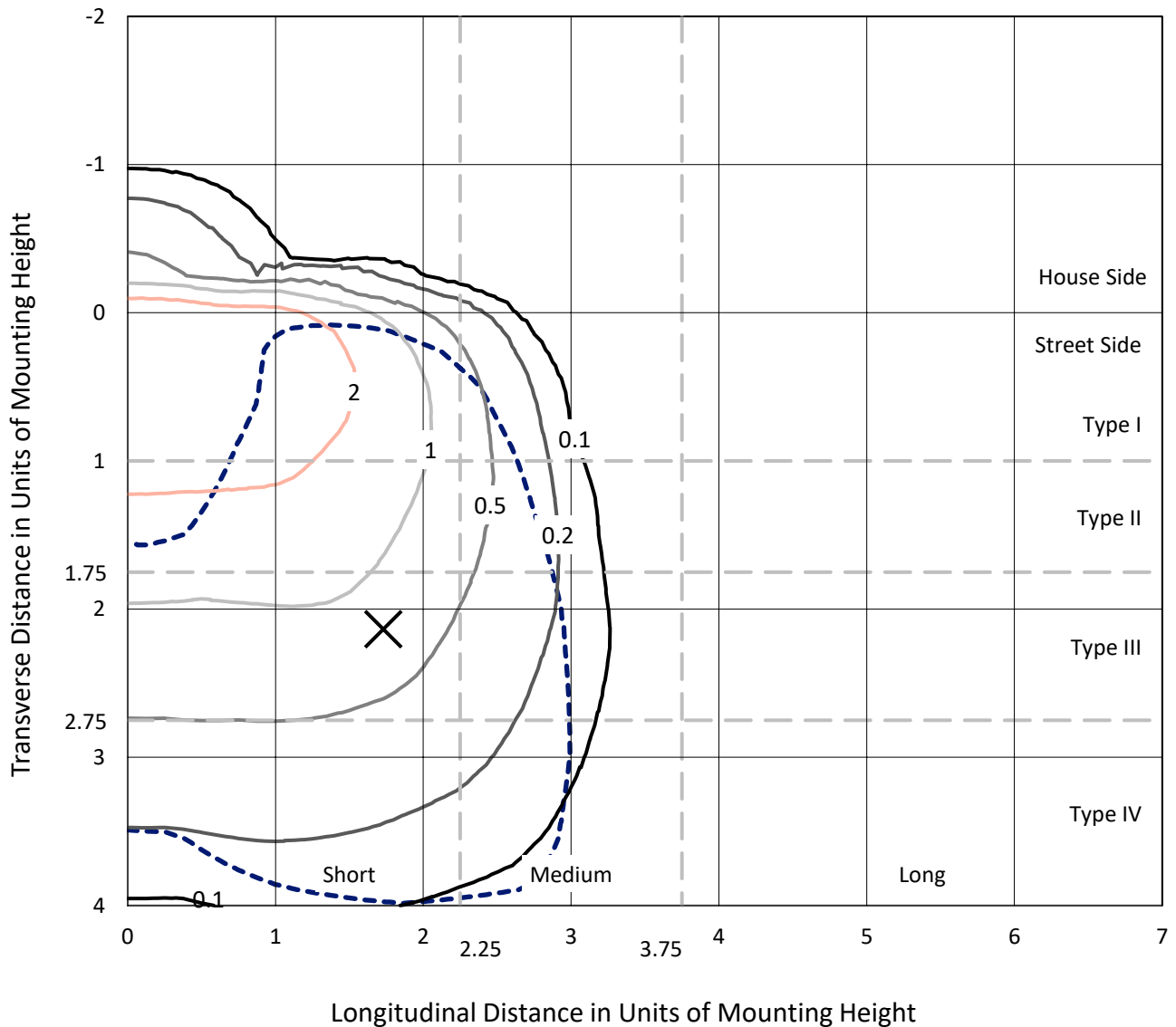
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

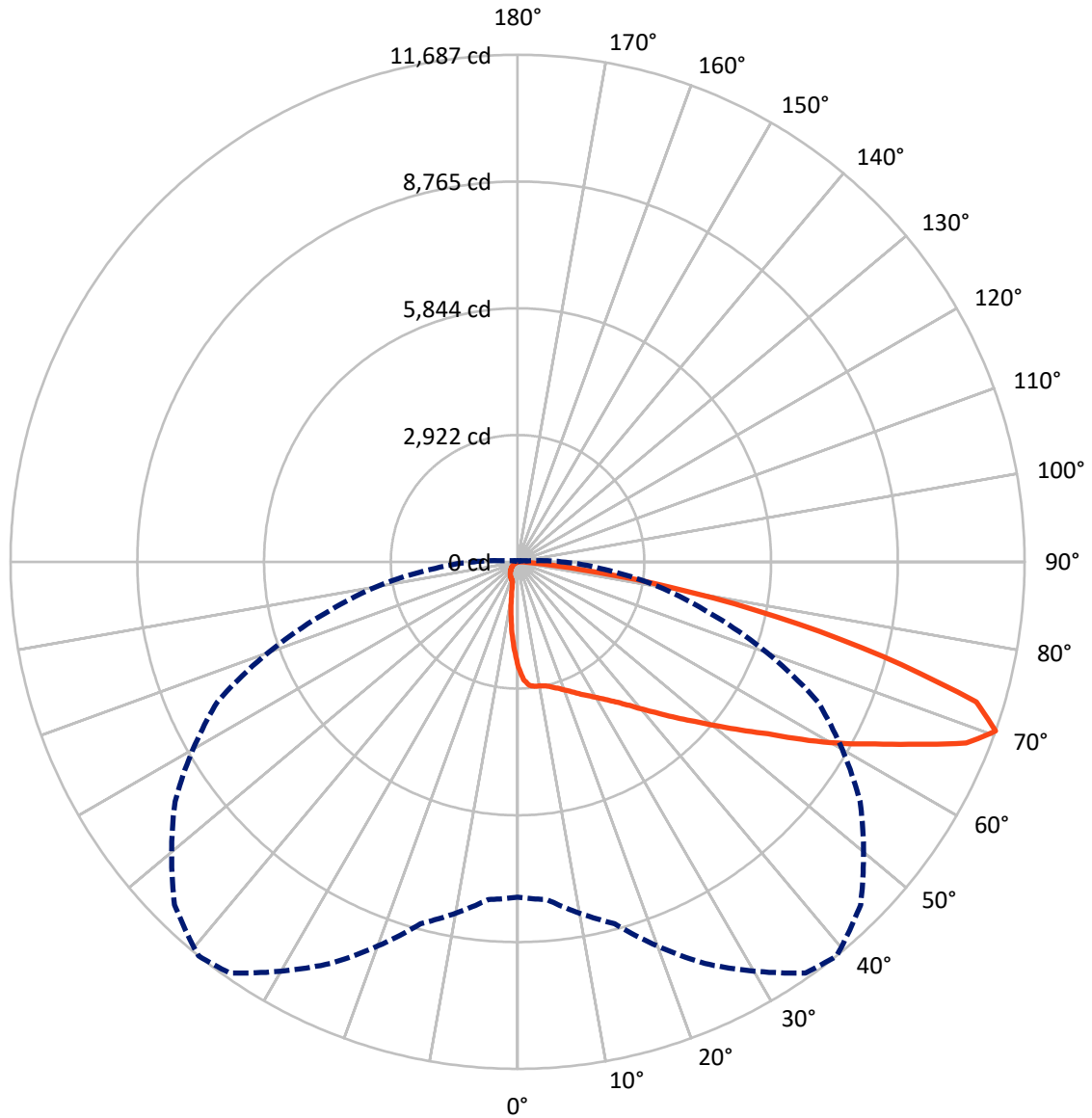
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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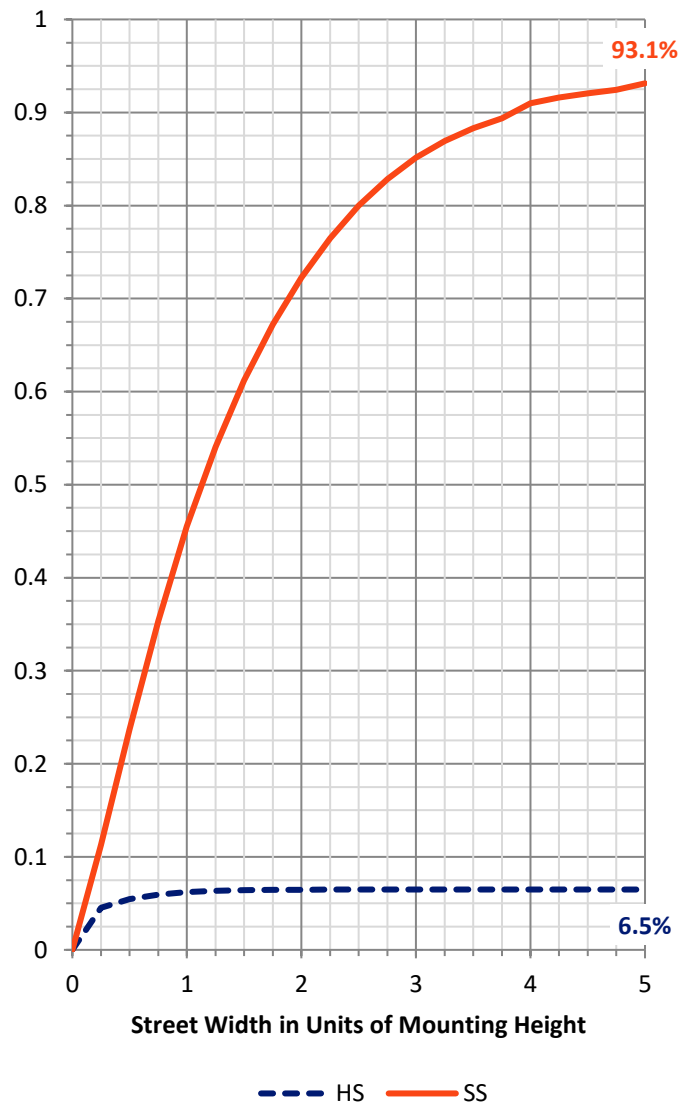
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.3	0.0	1015.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	14556.6	0.0	14556.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	15571.9	0.0	15571.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	1.3
10°-20°	538.6	3.5
20°-30°	902.2	5.8
30°-40°	1399.3	9.0
40°-50°	2217.4	14.2
50°-60°	3250.4	20.9
60°-70°	4166.2	26.8
70°-80°	2617.9	16.8
80°-90°	272.7	1.8
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°	15571.9	100.0
0°-180°	15571.9	100.0

Coefficient of Utilization



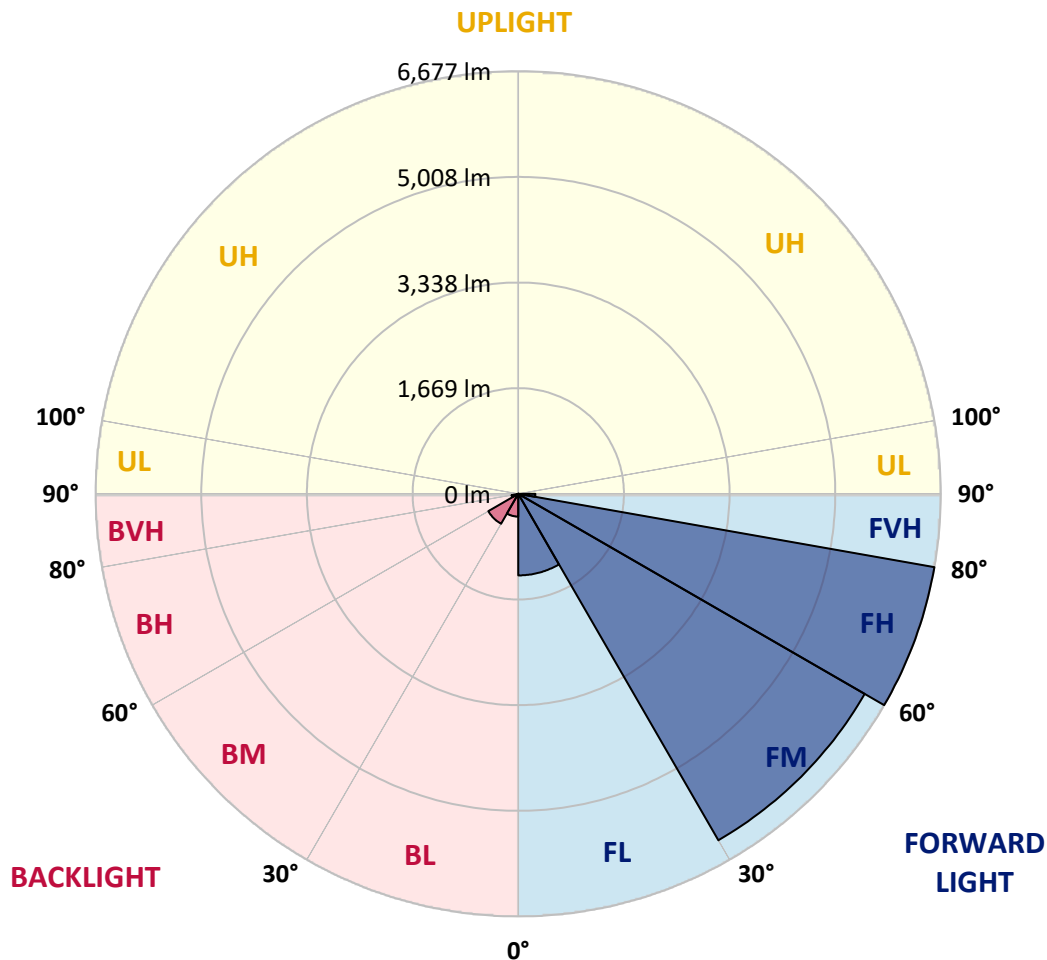
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.5	8.3			
FM (30°-60°)	6320.6	40.6			
FH (60°-80°)	6676.7	42.9			G3/7500
FVH (80°-90°)	270.7	1.7			G3/500
BL (0°-30°)	359.5	2.3	B1/500		
BM (30°-60°)	546.4	3.5	B1/1000		
BH (60°-80°)	107.4	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7
2.5°	2807.5	2798.1	2785.6	2770.9	2729.0	2721.7	2696.6	2643.3	2579.4	2527.0	2454.9
5°	2940.4	2945.6	2936.2	2910.0	2879.8	2861.9	2830.6	2747.9	2665.2	2559.5	2441.3
7.5°	2970.7	2981.2	2969.7	2944.6	2915.3	2896.5	2871.3	2800.2	2703.9	2583.6	2421.4
10°	2967.6	2980.2	2972.9	2949.8	2925.8	2907.9	2880.8	2824.2	2746.8	2620.2	2427.6
12.5°	2962.4	2979.2	2978.1	2966.5	2946.7	2933.1	2916.3	2866.1	2793.9	2673.5	2462.2
15°	2947.7	2968.6	2987.5	2996.9	2998.0	2998.0	2977.1	2923.7	2854.6	2743.7	2507.2
17.5°	2954.0	2978.1	3025.2	3052.4	3071.2	3069.1	3047.1	2989.6	2913.2	2815.9	2554.3
20°	2992.7	3025.2	3091.1	3145.5	3164.3	3158.0	3128.8	3061.8	2975.0	2877.6	2600.3
22.5°	3088.0	3117.3	3199.9	3263.8	3277.4	3260.6	3218.8	3127.7	3049.2	2944.6	2655.8
25°	3230.3	3264.8	3341.2	3389.3	3389.3	3379.9	3321.3	3214.6	3133.0	3037.7	2728.0
27.5°	3402.9	3432.2	3507.6	3550.4	3525.4	3498.1	3439.5	3310.8	3232.4	3154.9	2814.8
30°	3577.7	3596.5	3676.0	3694.8	3668.7	3634.2	3571.4	3442.7	3373.6	3314.0	2940.4
32.5°	3743.0	3783.8	3849.8	3845.6	3810.0	3793.2	3735.6	3598.6	3559.9	3553.6	3116.2
35°	3908.3	3939.7	3998.4	4013.0	3981.5	3978.4	3936.6	3835.0	3836.1	3876.9	3390.3
37.5°	4050.7	4078.9	4148.0	4180.4	4186.7	4202.4	4185.7	4118.6	4213.9	4325.9	3753.5
40°	4169.9	4209.7	4297.6	4354.1	4419.0	4476.6	4479.7	4494.3	4685.8	4878.4	4227.5
42.5°	4263.0	4318.5	4446.2	4550.8	4699.4	4772.7	4831.3	4911.9	5234.1	5521.9	4786.3
45°	4384.5	4448.3	4607.3	4771.6	5004.0	5124.3	5205.9	5421.4	5878.8	6271.1	5359.7
47.5°	4585.4	4618.9	4781.0	5020.7	5326.2	5497.9	5656.9	5983.4	6570.4	6922.0	5836.9
50°	4843.8	4865.8	4988.2	5321.0	5716.5	5942.6	6232.4	6616.4	7288.2	7461.9	6106.8
52.5°	5129.5	5136.8	5228.9	5651.7	6153.9	6438.5	6762.9	7237.0	7873.2	7847.0	6285.8
55°	5461.2	5450.8	5529.2	6010.5	6671.9	6997.3	7375.1	7872.1	8380.6	8120.1	6388.3
57.5°	5841.1	5812.8	5889.2	6486.7	7335.3	7724.6	8108.6	8420.4	8774.2	8349.3	6437.5
60°	6238.7	6182.2	6273.2	7021.4	8117.0	8486.4	8805.5	8889.2	9188.5	8531.4	6352.7
62.5°	6555.8	6556.8	6726.3	7590.6	8920.7	9243.9	9413.5	9488.8	9545.4	8491.6	5906.9
65°	7050.7	7067.4	7338.5	8380.6	9850.9	10131.4	10247.5	10002.6	9561.0	7997.7	5237.2
67.5°	7561.3	7614.8	8110.7	9469.0	10925.5	11151.6	11002.0	10102.0	9134.1	6870.7	3971.1
70°	7727.7	7815.6	8632.9	10218.2	11570.1	11687.3	11180.8	9638.4	7635.6	4593.7	1998.6
72.5°	7081.1	7223.3	8332.5	9945.1	11158.9	11057.4	10003.7	8083.5	4854.3	1744.4	610.1
75°	4993.4	5056.3	6925.1	8249.9	8975.1	8687.3	7609.5	5211.1	1996.5	489.7	209.2
77.5°	2578.3	2548.0	4118.6	5473.7	6400.9	6102.6	4983.0	2697.7	756.6	204.0	129.8
80°	1333.2	1355.1	1782.0	2868.2	3907.3	3595.4	2656.8	1250.5	402.8	113.0	99.4
82.5°	747.1	701.1	1024.4	1252.6	1827.0	1432.6	1019.2	885.2	175.8	68.0	94.2
85°	136.1	142.3	562.0	677.0	634.1	402.8	328.6	591.2	51.3	37.7	65.9
87.5°	2.1	2.1	108.8	194.6	123.5	56.5	103.6	84.8	10.4	14.6	11.5
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°	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7
2.5°	2418.2	2378.5	2304.2	2230.9	2137.8	2061.5	2010.2	1956.8	1902.3	1906.5	1919.1
5°	2376.4	2307.4	2160.9	2006.0	1857.3	1723.5	1591.6	1473.3	1425.2	1381.3	1383.4
7.5°	2334.5	2237.2	2022.7	1780.0	1554.9	1326.8	1161.5	1025.5	953.3	898.9	883.1
10°	2315.7	2187.0	1896.1	1562.3	1243.2	994.1	781.6	670.8	584.9	557.8	565.1
12.5°	2324.1	2161.9	1782.0	1365.5	985.7	692.7	544.1	487.6	468.8	465.7	463.6
15°	2339.7	2144.1	1670.1	1147.9	724.1	514.9	457.3	446.8	444.7	442.6	443.7
17.5°	2360.7	2128.4	1550.8	943.9	555.6	449.9	433.2	428.0	427.0	427.0	427.0
20°	2381.6	2110.6	1417.8	761.8	463.6	424.9	414.4	411.2	410.2	410.2	409.1
22.5°	2405.7	2094.9	1282.9	598.5	427.0	407.0	397.6	395.5	394.5	393.4	393.4
25°	2440.2	2075.0	1139.6	489.7	403.9	390.3	380.9	378.8	377.8	373.6	374.6
27.5°	2486.2	2060.4	992.0	422.8	383.0	369.4	363.1	359.9	357.8	354.7	355.7
30°	2549.1	2047.8	835.0	386.1	358.9	347.4	341.1	339.0	336.9	333.8	333.8
32.5°	2657.9	2053.0	669.7	356.8	336.9	323.4	317.1	315.0	312.9	309.7	309.7
35°	2821.1	2083.4	535.8	331.7	310.7	297.2	290.9	290.9	287.8	283.6	282.5
37.5°	3088.0	2160.9	430.1	307.6	285.7	273.1	265.8	263.7	260.5	254.3	253.2
40°	3402.9	2281.1	362.1	283.6	262.6	250.1	243.8	237.5	229.2	222.9	221.9
42.5°	3798.5	2404.7	313.9	259.5	240.7	229.2	221.9	211.3	198.8	190.5	189.4
45°	4210.7	2517.6	281.5	237.5	219.8	210.3	201.9	185.2	169.5	159.0	158.0
47.5°	4518.4	2538.6	255.3	216.6	201.9	192.5	181.1	160.1	139.2	129.8	126.7
50°	4663.8	2437.0	228.1	195.7	184.2	173.7	159.0	135.0	111.9	100.4	98.4
52.5°	4715.2	2261.3	206.1	176.9	166.3	153.8	136.1	108.8	87.9	76.4	75.4
55°	4694.2	2039.4	186.3	159.0	145.4	130.8	113.0	86.9	64.8	55.4	53.4
57.5°	4584.3	1756.9	166.3	141.3	124.6	109.8	90.0	64.8	44.0	35.6	34.6
60°	4288.2	1371.8	146.5	121.4	105.7	90.0	71.1	46.0	27.2	19.8	19.8
62.5°	3788.0	1018.1	127.7	101.5	89.0	72.2	50.2	29.3	14.6	10.4	9.4
65°	3165.4	751.3	106.7	85.8	74.3	56.5	35.6	17.8	7.3	3.1	2.1
67.5°	2209.0	463.6	89.0	70.1	60.7	40.8	22.0	7.3	3.1	0.0	0.0
70°	1003.5	220.8	68.0	53.4	46.0	29.3	11.5	4.2	2.1	0.0	0.0
72.5°	311.8	116.1	48.1	38.7	31.4	18.8	6.3	3.1	2.1	0.0	0.0
75°	144.4	74.3	30.4	20.9	17.8	9.4	4.2	2.1	1.0	0.0	0.0
77.5°	107.8	57.5	17.8	11.5	9.4	6.3	3.1	2.1	1.0	0.0	0.0
80°	94.2	29.3	10.4	7.3	5.2	4.2	2.1	1.0	0.0	0.0	0.0
82.5°	84.8	14.6	6.3	4.2	3.1	2.1	1.0	1.0	0.0	0.0	0.0
85°	46.0	8.4	4.2	3.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	8.4	4.2	3.1	2.1	2.1	1.0	1.0	1.0	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)