

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: P527711

Luminaire Tested: **GALN-SA2D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8270 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

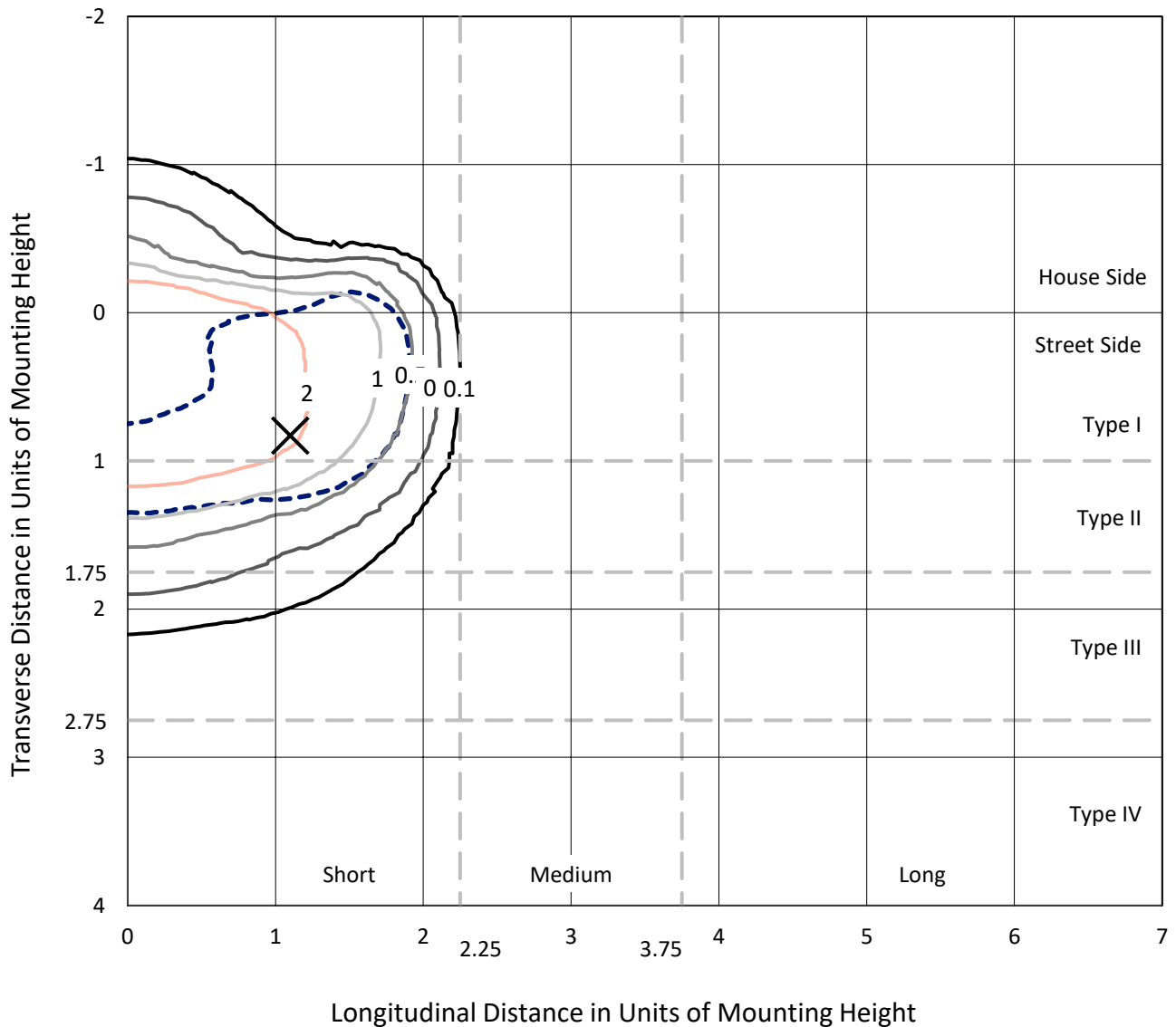
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

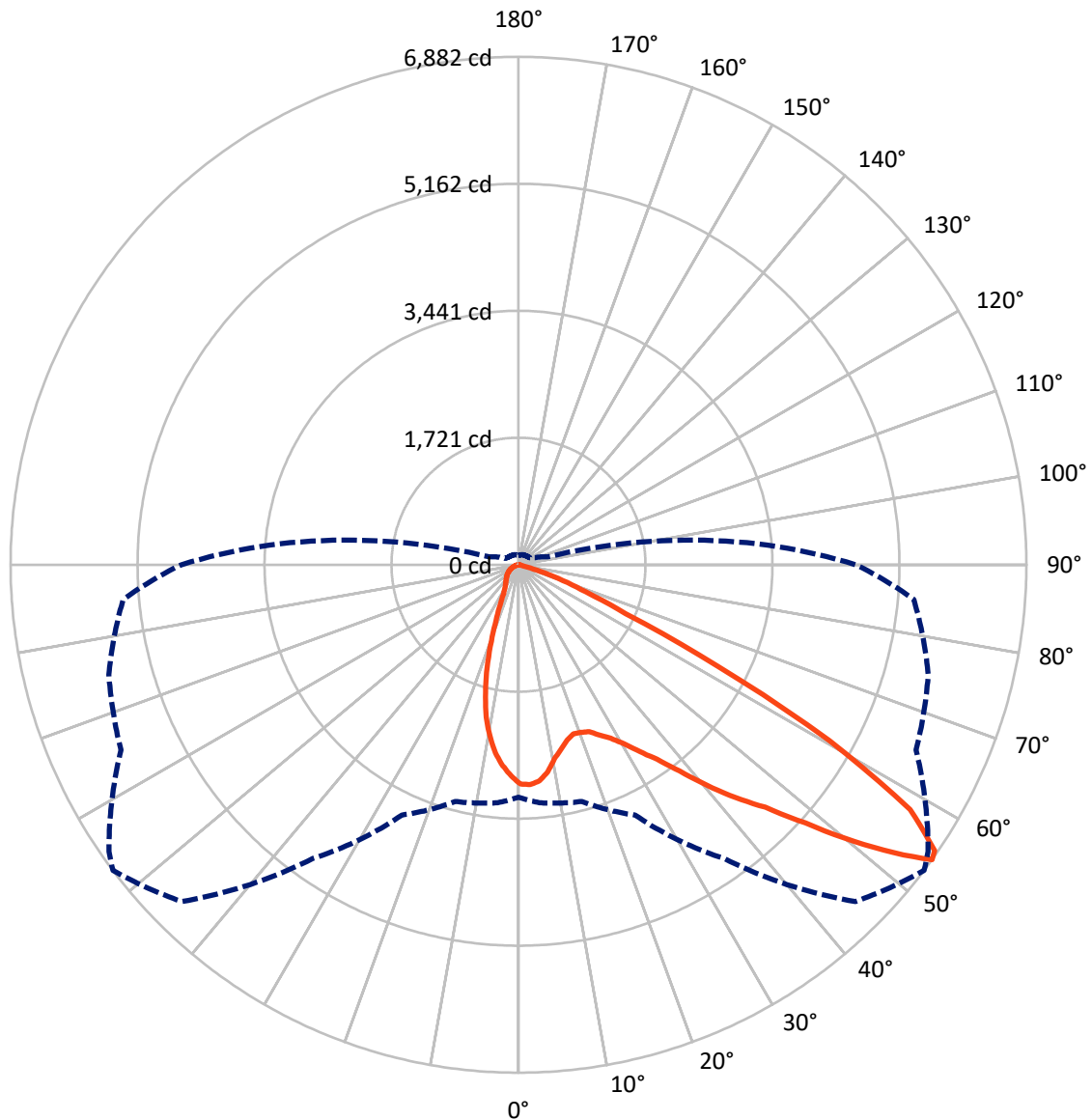
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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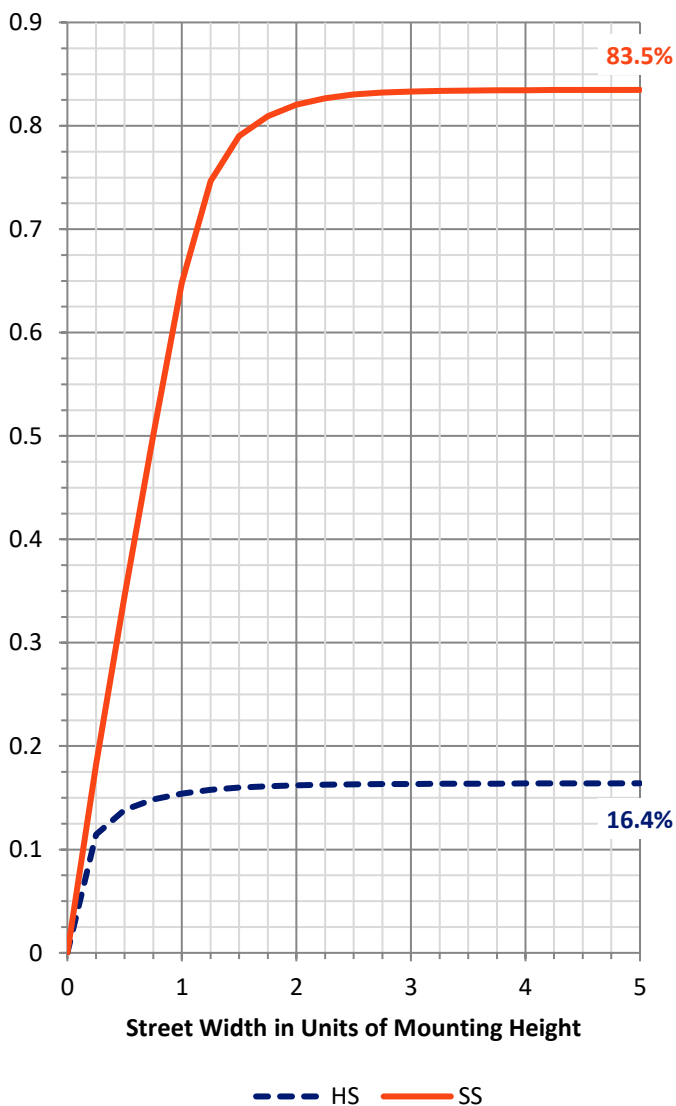
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.3	0.0	1368.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6901.7	0.0	6901.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	8270.0	0.0	8270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	3.1
10°-20°	584.3	7.1
20°-30°	830.4	10.0
30°-40°	1281.6	15.5
40°-50°	2009.4	24.3
50°-60°	2334.2	28.2
60°-70°	882.0	10.7
70°-80°	83.9	1.0
80°-90°	9.4	0.1
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°	8270.0	100.0
0°-180°	8270.0	100.0

Coefficient of Utilization

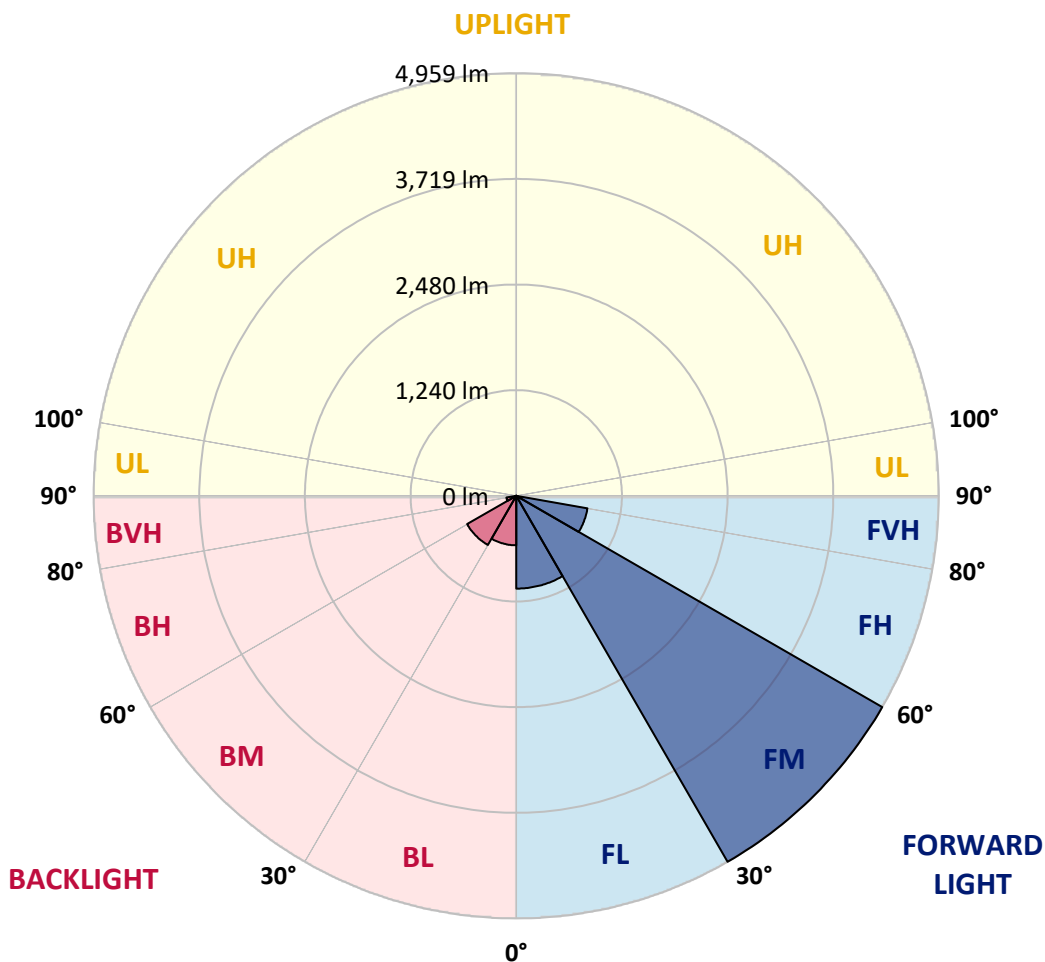


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.9	13.2			
FM (30°-60°)	4959.3	60.0			
FH (60°-80°)	848.6	10.3			G1/1800
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	580.6	7.0	B2/1000		
BM (30°-60°)	665.9	8.1	B1/1000		
BH (60°-80°)	117.2	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4
2.5°	2955.0	2928.8	2955.0	2958.1	2976.6	2993.6	2982.8	3007.4	2993.6	2978.1	2973.5
5°	2716.2	2751.7	2753.2	2808.7	2796.3	2898.0	2942.7	2930.4	3005.9	3001.3	2990.5
7.5°	2502.1	2488.2	2506.7	2571.4	2653.1	2770.2	2834.9	2833.3	2941.2	3018.2	3010.5
10°	2303.3	2301.8	2340.3	2391.1	2460.5	2583.7	2673.1	2717.8	2885.7	3002.8	3019.7
12.5°	2169.3	2163.1	2204.7	2246.3	2355.7	2451.2	2565.2	2586.8	2779.4	2948.9	2976.6
15°	2081.5	2095.3	2098.4	2178.5	2247.9	2374.2	2463.6	2508.2	2730.1	2905.7	3012.0
17.5°	2066.1	2084.5	2086.1	2152.3	2226.3	2332.6	2411.2	2471.3	2688.5	2927.3	3013.6
20°	2096.9	2086.1	2095.3	2136.9	2209.3	2311.0	2425.0	2445.1	2674.6	2938.1	3030.5
22.5°	2184.7	2181.6	2158.5	2192.4	2243.2	2349.5	2457.4	2488.2	2714.7	2993.6	3044.4
25°	2281.8	2298.7	2277.1	2272.5	2307.9	2412.7	2556.0	2596.1	2848.7	3093.7	3087.5
27.5°	2463.6	2446.6	2446.6	2425.0	2415.8	2466.6	2662.3	2728.6	2998.2	3223.1	3136.8
30°	2637.7	2656.1	2642.3	2650.0	2588.4	2583.7	2813.3	2895.0	3263.2	3420.3	3241.6
32.5°	2913.4	2888.8	2911.9	2891.9	2810.2	2727.0	3018.2	3102.9	3583.6	3646.8	3398.8
35°	3143.0	3132.2	3230.8	3227.7	3095.2	3013.6	3235.4	3361.8	3807.0	3918.0	3583.6
37.5°	3469.6	3449.6	3562.1	3616.0	3497.4	3375.6	3546.7	3693.0	4015.0	4135.2	3773.1
40°	3805.5	3856.3	4007.3	4096.7	3970.4	3808.6	3927.2	3971.9	4153.7	4276.9	3902.6
42.5°	4230.7	4304.7	4458.7	4535.8	4525.0	4349.4	4313.9	4312.4	4253.8	4236.9	3998.1
45°	4639.0	4611.3	4848.5	5016.5	5152.1	5101.2	4686.8	4640.5	4412.5	4297.0	4022.7
47.5°	4817.7	4808.5	4970.3	5269.1	5731.4	5794.5	5229.1	5050.4	4680.6	4549.6	4156.8
50°	4586.6	4634.4	4794.6	5125.9	5834.6	6316.8	5894.7	5654.3	4993.4	4857.8	4474.2
52.5°	3831.7	3864.0	4016.6	4437.2	5483.3	6625.0	6532.5	6393.9	5568.0	5343.1	5027.3
54°	3150.7	3237.0	3320.2	3742.3	4857.8	6453.9	6882.2	6775.9	5942.4	5746.8	5375.5
55°	2744.0	2794.8	2854.9	3275.5	4424.9	6164.3	6842.2	6851.4	6193.6	5873.1	5609.6
57.5°	2004.4	2039.9	1978.2	2164.7	3038.2	5005.7	6258.3	6507.9	6532.5	6062.6	5752.9
60°	1531.4	1546.8	1477.5	1506.8	1888.9	3435.7	4840.8	5141.3	5893.1	5298.4	4873.2
62.5°	1187.9	1191.0	1189.4	1240.3	1301.9	2021.4	3027.4	3294.0	4062.8	3762.4	3309.4
65°	875.1	861.2	885.9	1040.0	1110.8	1271.1	1594.6	1788.7	2207.8	1864.2	1332.7
67.5°	567.0	571.6	596.2	773.4	952.1	975.3	981.4	966.0	967.6	533.1	334.3
70°	340.5	348.2	340.5	437.6	681.0	699.5	639.4	624.0	486.9	126.3	124.8
72.5°	201.8	191.0	171.0	188.0	283.5	339.0	305.1	303.5	191.0	74.0	74.0
75°	84.7	77.0	63.2	57.0	75.5	72.4	72.4	64.7	50.8	49.3	46.2
77.5°	16.9	16.9	12.3	13.9	18.5	21.6	26.2	26.2	30.8	30.8	29.3
80°	0.0	1.5	4.6	9.2	13.9	20.0	23.1	23.1	26.2	26.2	21.6
82.5°	0.0	1.5	4.6	9.2	12.3	18.5	23.1	23.1	26.2	27.7	23.1
85°	0.0	1.5	4.6	7.7	12.3	15.4	15.4	13.9	10.8	9.2	6.2
87.5°	0.0	0.0	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4	2970.4
2.5°	2984.3	2982.8	2945.8	2885.7	2871.8	2821.0	2814.8	2784.0	2801.0	2744.0	2737.8
5°	2959.7	2941.2	2896.5	2858.0	2745.5	2665.4	2602.2	2525.2	2480.5	2488.2	2458.9
7.5°	2995.1	2947.3	2868.8	2734.7	2597.6	2457.4	2381.9	2224.8	2167.7	2083.0	2070.7
10°	2958.1	2922.7	2801.0	2579.1	2389.6	2187.8	2010.6	1836.5	1704.0	1647.0	1634.7
12.5°	2955.0	2893.4	2690.0	2443.5	2169.3	1879.6	1622.3	1405.1	1274.1	1200.2	1183.2
15°	2907.3	2833.3	2565.2	2234.0	1855.0	1494.5	1214.1	1004.5	904.4	861.2	873.6
17.5°	2911.9	2801.0	2440.4	2012.1	1545.3	1097.0	828.9	721.0	694.8	705.6	705.6
20°	2907.3	2728.6	2289.5	1756.4	1183.2	761.1	608.6	570.1	587.0	620.9	613.2
22.5°	2882.6	2694.7	2150.8	1486.8	870.5	563.9	488.4	489.9	516.1	557.7	567.0
25°	2901.1	2619.2	1975.2	1214.1	634.8	449.9	423.7	434.5	462.2	493.0	499.2
27.5°	2887.2	2565.2	1791.8	942.9	463.7	386.7	385.2	397.5	409.8	432.9	432.9
30°	2902.7	2515.9	1611.6	701.0	382.1	354.4	348.2	357.4	369.8	374.4	372.8
32.5°	2959.7	2479.0	1403.6	523.8	337.4	323.5	323.5	323.5	322.0	328.2	329.7
35°	3084.5	2485.1	1220.2	405.2	308.1	297.4	292.7	286.6	283.5	286.6	288.1
37.5°	3220.0	2482.0	1030.7	345.1	286.6	277.3	266.5	257.3	255.8	258.8	254.2
40°	3280.1	2511.3	855.1	309.7	266.5	255.8	238.8	231.1	232.6	235.7	232.6
42.5°	3361.8	2520.6	741.1	281.9	248.1	231.1	220.3	211.1	209.5	214.2	212.6
45°	3360.2	2468.2	620.9	266.5	231.1	212.6	198.7	191.0	191.0	194.1	195.7
47.5°	3458.8	2460.5	533.1	252.7	218.8	200.3	183.3	177.2	175.6	175.6	172.6
50°	3688.4	2568.3	465.3	237.3	203.4	186.4	172.6	164.9	158.7	155.6	154.1
52.5°	4136.7	2904.2	412.9	218.8	186.4	172.6	160.2	154.1	146.4	138.7	137.1
54°	4571.2	3250.8	409.8	203.4	172.6	163.3	152.5	149.4	140.2	129.4	126.3
55°	4766.9	3452.7	420.6	191.0	163.3	157.2	147.9	144.8	135.6	123.3	121.7
57.5°	4928.7	3531.3	414.4	158.7	147.9	146.4	138.7	134.0	123.3	106.3	103.2
60°	3967.3	2670.0	297.4	140.2	135.6	132.5	126.3	123.3	109.4	90.9	89.4
62.5°	2506.7	1536.1	189.5	123.3	118.6	114.0	106.3	103.2	90.9	72.4	67.8
65°	1067.7	636.3	127.9	109.4	101.7	94.0	87.8	83.2	72.4	53.9	52.4
67.5°	277.3	226.5	106.3	95.5	84.7	74.0	69.3	61.6	49.3	37.0	35.4
70°	124.8	114.0	89.4	80.1	67.8	57.0	50.8	43.1	32.4	24.7	23.1
72.5°	74.0	72.4	67.8	60.1	50.8	43.1	37.0	29.3	21.6	13.9	13.9
75°	46.2	44.7	46.2	41.6	35.4	32.4	27.7	20.0	12.3	6.2	6.2
77.5°	27.7	27.7	27.7	26.2	24.7	24.7	20.0	12.3	6.2	1.5	1.5
80°	21.6	21.6	23.1	21.6	21.6	21.6	16.9	9.2	3.1	0.0	0.0
82.5°	21.6	23.1	26.2	24.7	21.6	18.5	15.4	9.2	3.1	0.0	0.0
85°	6.2	4.6	7.7	10.8	15.4	13.9	10.8	7.7	3.1	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5	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)