

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: P950981

Luminaire Tested: **GALN-SB5B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21911 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

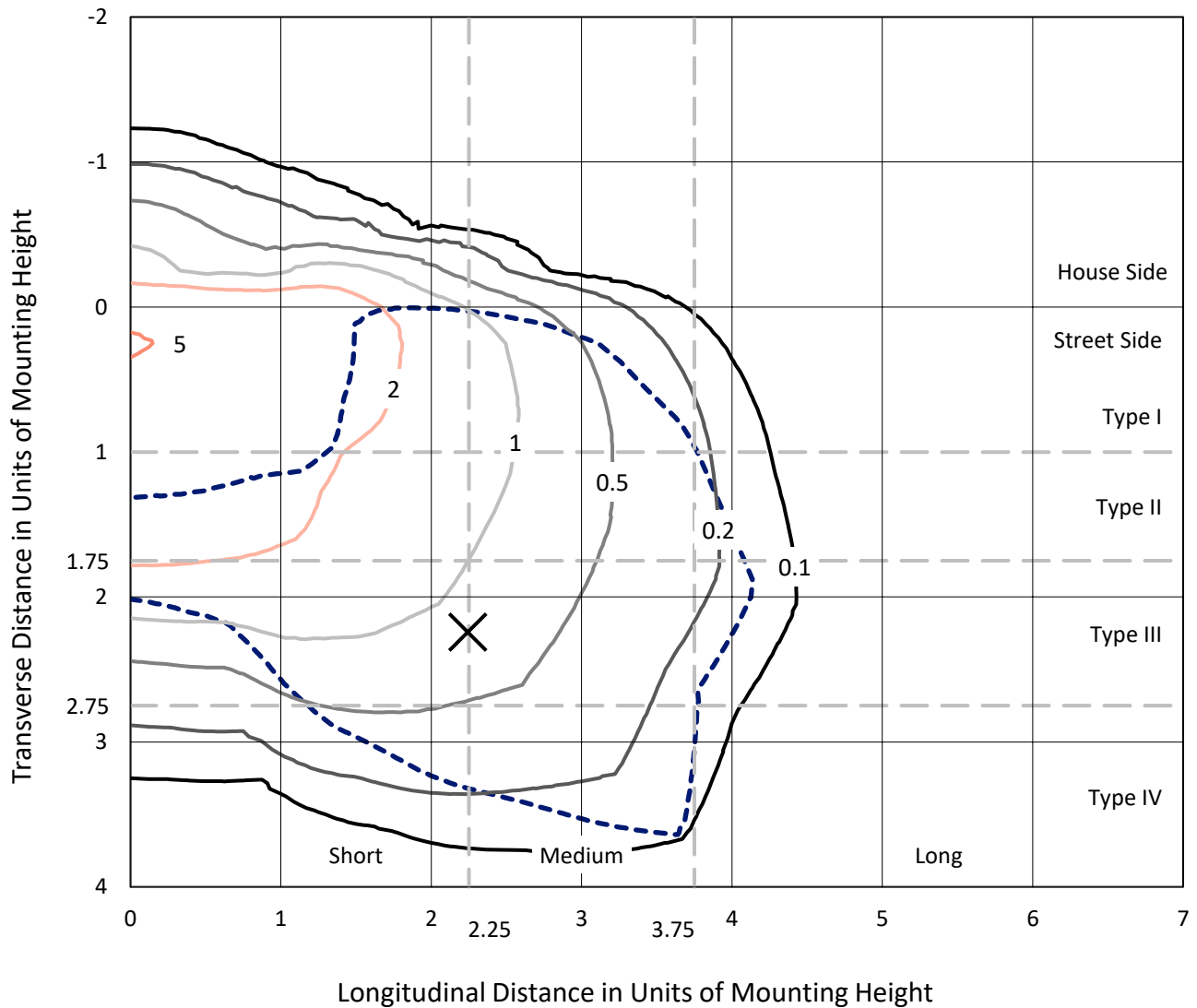
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

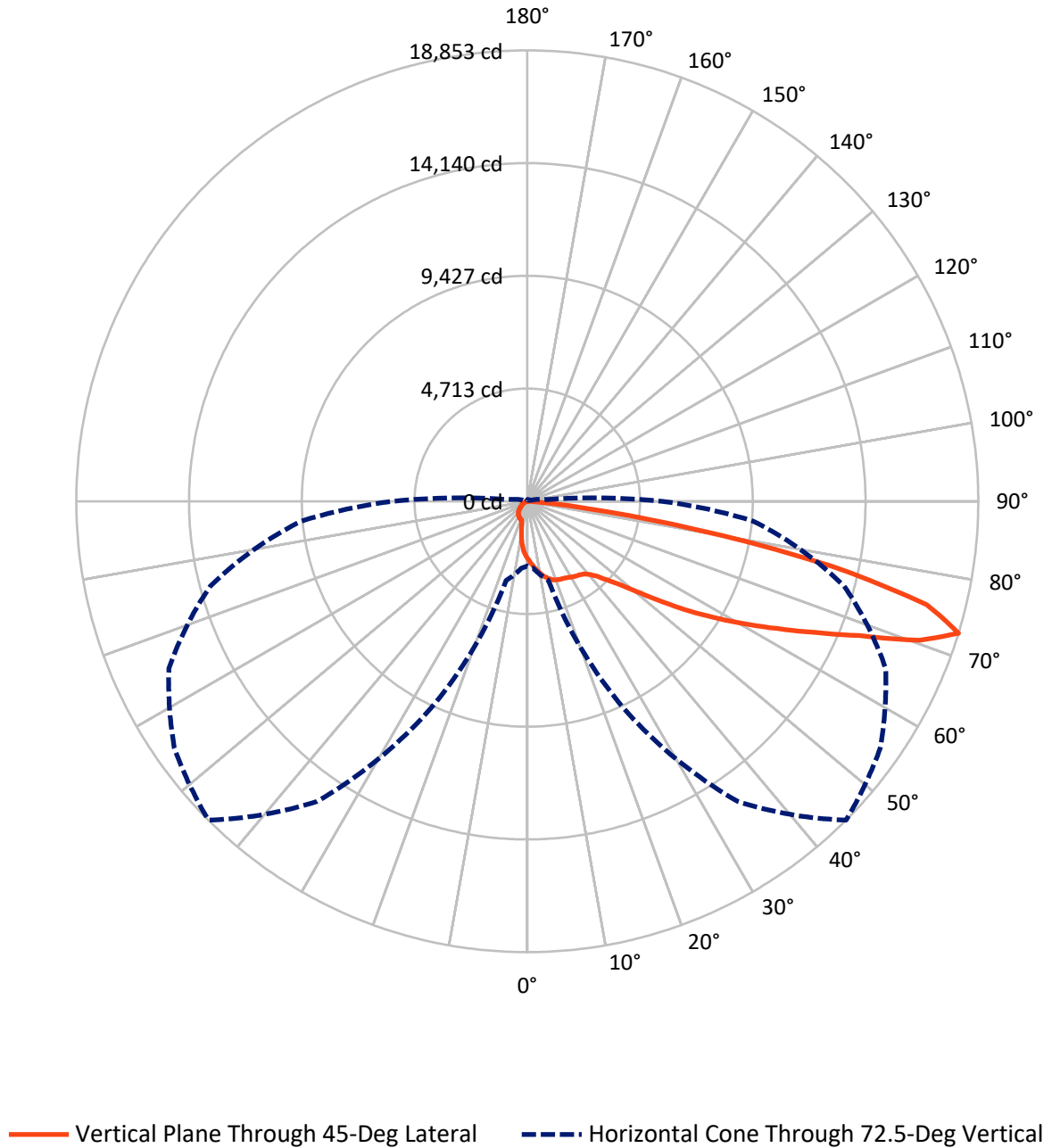
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2302.2	0.0	2302.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19608.8	0.0	19608.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	21911.0	0.0	21911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	1.0
10°-20°	661.0	3.0
20°-30°	1085.4	5.0
30°-40°	1539.4	7.0
40°-50°	2544.5	11.6
50°-60°	4570.9	20.9
60°-70°	6346.9	29.0
70°-80°	4603.9	21.0
80°-90°	332.8	1.5
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°	21911.0	100.0
0°-180°	21911.0	100.0

Coefficient of Utilization



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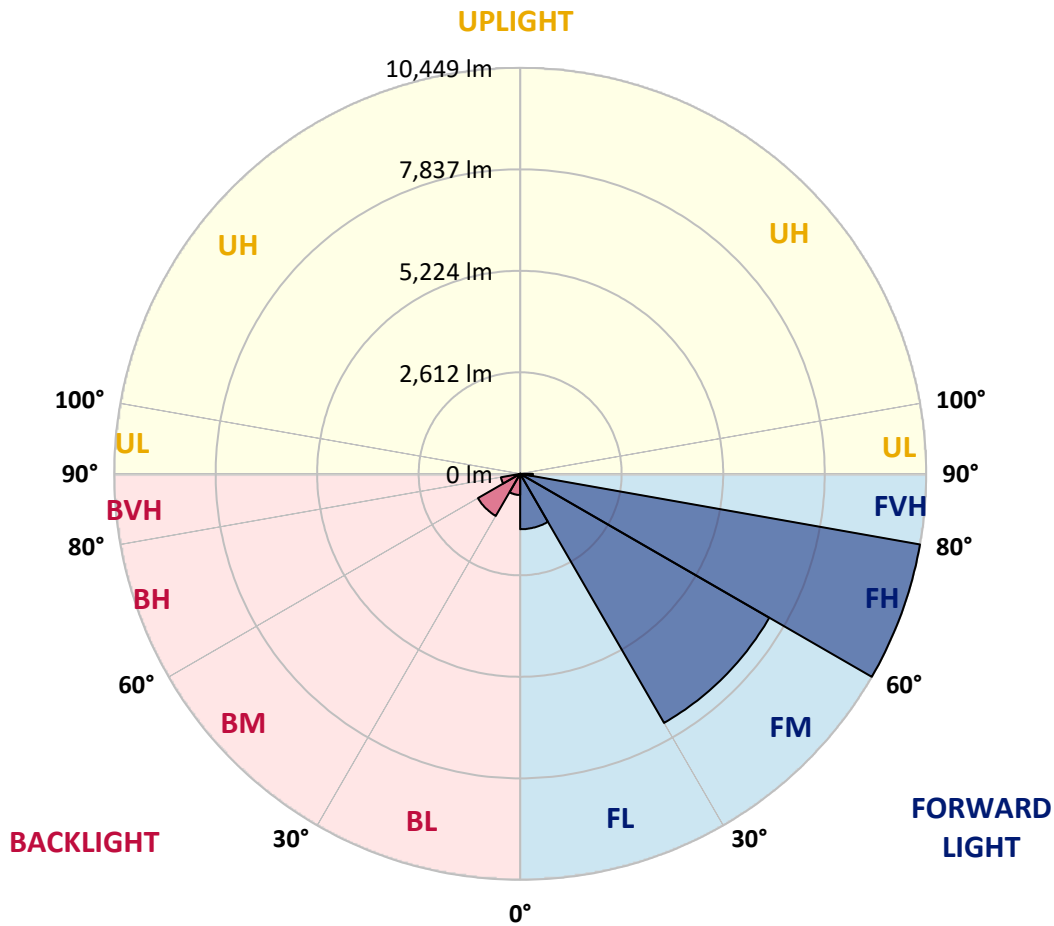
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1427.3	6.5			
FM (30°-60°)	7402.7	33.8			
FH (60°-80°)	10448.7	47.7			G4/12000
FVH (80°-90°)	330.0	1.5			G3/500
BL (0°-30°)	545.3	2.5	B2/1000		
BM (30°-60°)	1252.1	5.7	B2/2500		
BH (60°-80°)	502.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4
2.5°	2621.7	2626.2	2623.2	2605.3	2575.4	2558.9	2550.0	2520.0	2500.6	2466.2
5°	2862.5	2880.5	2870.0	2834.1	2777.3	2736.9	2724.9	2663.6	2608.3	2544.0
7.5°	3118.3	3127.2	3107.8	3061.4	2985.2	2916.4	2905.9	2820.7	2732.4	2633.7
10°	3339.6	3350.1	3320.2	3252.9	3166.1	3080.9	3065.9	2971.7	2867.0	2745.9
12.5°	3525.1	3535.5	3496.7	3415.9	3320.2	3231.9	3217.0	3118.3	3003.1	2868.5
15°	3665.7	3685.1	3632.7	3546.0	3442.8	3354.6	3347.1	3249.9	3137.7	2988.2
17.5°	3747.9	3767.4	3718.0	3613.3	3525.1	3450.3	3441.3	3360.6	3255.9	3112.3
20°	3761.4	3779.3	3727.0	3635.7	3562.5	3502.6	3498.1	3439.8	3363.5	3226.0
22.5°	3721.0	3743.4	3695.6	3622.3	3571.4	3540.0	3534.0	3501.1	3457.8	3341.1
25°	3679.1	3697.1	3661.2	3596.9	3569.9	3566.9	3571.4	3565.4	3556.5	3457.8
27.5°	3676.1	3695.6	3655.2	3593.9	3578.9	3610.3	3614.8	3643.2	3650.7	3564.0
30°	3701.5	3715.0	3676.1	3611.8	3604.3	3676.1	3677.6	3728.5	3740.4	3653.7
32.5°	3756.9	3771.8	3733.0	3638.7	3628.3	3728.5	3733.0	3800.3	3819.7	3749.4
35°	3887.0	3904.9	3860.1	3713.5	3676.1	3777.8	3791.3	3870.5	3909.4	3851.1
37.5°	4211.5	4159.2	4097.9	3864.6	3785.3	3855.6	3878.0	3970.7	4039.5	3972.2
40°	5017.7	4853.1	4661.7	4121.8	3976.7	4021.6	4039.5	4132.3	4226.5	4160.7
42.5°	6227.6	6033.1	5725.1	4714.1	4265.4	4287.8	4301.3	4382.0	4515.1	4462.8
45°	7305.9	7235.6	6921.5	5725.1	4805.3	4694.6	4711.1	4752.9	4948.9	4929.4
47.5°	8134.4	8094.0	7851.8	6885.6	5717.6	5192.6	5239.0	5258.4	5541.1	5609.9
50°	8771.5	8756.6	8539.7	7917.6	6909.6	5927.0	5943.4	5901.5	6324.8	6495.3
52.5°	9372.8	9423.6	9263.6	8876.2	8182.3	6888.6	6885.6	6688.2	7259.5	7516.8
55°	9915.7	9933.6	9950.1	9854.3	9462.5	7983.4	7955.0	7631.9	8343.8	8610.0
57.5°	10425.6	10433.1	10579.7	10775.6	10795.1	9158.9	9106.6	8719.2	9528.3	9718.2
60°	10768.1	10802.5	11112.1	11656.5	11894.3	10371.8	10343.4	9948.6	10733.7	10822.0
62.5°	10274.6	10484.0	11264.7	12344.5	12932.2	11716.3	11702.9	11332.0	12002.0	11930.2
65°	8316.9	8671.3	10044.3	12809.6	13950.7	13217.9	13237.3	12842.5	13304.6	13071.3
67.5°	5817.8	6191.7	7815.9	12847.0	15088.8	14981.2	15093.3	14474.2	14688.0	14164.6
70°	4023.1	4216.0	5273.4	12042.4	15975.7	17410.0	17407.0	16478.2	16064.0	14662.6
72.5°	2705.5	2805.7	3424.9	9553.7	15323.7	18853.2	18766.5	18009.7	16527.6	13712.9
75°	1141.1	1214.4	1585.3	5369.1	12123.1	17248.5	17013.7	15915.9	14685.0	10798.0
77.5°	361.9	393.3	625.2	1921.8	6677.7	12965.1	12716.9	9939.6	9842.4	5417.0
80°	172.0	200.4	351.5	771.7	2627.7	7051.6	7017.2	4509.2	4234.0	1462.7
82.5°	74.8	88.2	194.4	412.8	1175.5	2515.6	2566.4	1534.5	1269.7	554.9
85°	23.9	31.4	89.7	189.9	496.5	625.2	617.7	364.9	511.5	302.1
87.5°	0.0	0.0	29.9	43.4	50.8	35.9	40.4	31.4	142.1	83.8
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2400.4	0°	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4	2400.4
2430.3	2.5°	2412.4	2388.4	2346.6	2307.7	2273.3	2238.9	2217.9	2188.0	2185.0	2185.0
2469.2	5°	2428.8	2389.9	2315.1	2235.9	2144.7	2057.9	1971.2	1887.4	1860.5	1841.1
2532.0	7.5°	2476.7	2415.4	2297.2	2146.1	1972.7	1782.7	1649.6	1506.0	1450.7	1420.8
2615.8	10°	2545.5	2461.7	2282.2	2017.5	1736.4	1477.6	1287.7	1132.1	1072.3	1046.9
2707.0	12.5°	2621.7	2518.5	2255.3	1857.5	1477.6	1168.0	982.6	910.8	901.8	901.8
2816.2	15°	2713.0	2587.3	2209.0	1669.1	1206.9	924.3	858.5	861.5	870.4	876.4
2922.4	17.5°	2807.2	2660.6	2135.7	1458.2	967.6	831.5	833.0	837.5	845.0	851.0
3037.5	20°	2908.9	2733.9	2038.5	1233.8	830.0	804.6	809.1	813.6	819.6	822.6
3145.2	22.5°	3018.1	2802.7	1923.3	1014.0	783.7	782.2	783.7	788.2	795.6	795.6
3270.8	25°	3134.7	2879.0	1791.7	854.0	759.8	759.8	762.7	765.7	771.7	771.7
3392.0	27.5°	3254.4	2949.3	1652.6	770.2	738.8	737.3	737.3	741.8	744.8	746.3
3511.6	30°	3386.0	3031.5	1513.5	752.3	722.4	714.9	710.4	713.4	716.4	717.9
3637.2	32.5°	3520.6	3110.8	1389.4	759.8	705.9	692.5	677.5	674.5	674.5	680.5
3767.4	35°	3670.1	3197.5	1293.7	785.2	696.9	659.5	635.6	622.2	623.7	632.6
3922.9	37.5°	3849.6	3302.2	1223.4	807.6	691.0	622.2	583.3	566.8	556.4	566.8
4136.8	40°	4084.4	3456.3	1172.5	825.6	683.5	578.8	526.4	499.5	480.1	486.1
4468.8	42.5°	4429.9	3698.6	1153.1	827.1	667.0	527.9	468.1	432.2	403.8	405.3
4968.3	45°	4914.5	4081.4	1253.3	807.6	631.1	472.6	406.8	358.9	341.0	336.5
5714.6	47.5°	5578.5	4639.3	1485.1	767.2	578.8	418.8	347.0	306.6	293.1	285.7
6694.2	50°	6468.4	5355.7	1742.3	722.4	526.4	367.9	297.6	272.2	263.2	255.7
7856.3	52.5°	7500.3	6082.5	1953.2	677.5	474.1	323.0	266.2	251.3	243.8	237.8
8977.9	55°	8447.0	6583.5	1941.3	629.6	423.2	287.2	243.8	234.8	225.8	219.8
9944.1	57.5°	9036.3	6653.8	1600.3	577.3	364.9	258.7	222.8	216.9	206.4	198.9
10780.1	60°	9307.0	6253.0	1121.7	508.5	306.6	231.8	200.4	197.4	184.0	173.5
11571.3	62.5°	9356.3	5508.2	747.8	423.2	255.7	206.4	178.0	173.5	155.5	137.6
12214.4	65°	9155.9	4443.4	517.5	330.5	218.4	179.5	152.5	143.6	124.1	106.2
12366.9	67.5°	8521.8	3119.8	360.4	237.8	185.5	142.1	121.1	118.2	103.2	88.2
11589.2	70°	7359.7	1778.2	240.8	178.0	146.6	97.2	95.7	98.7	83.8	71.8
9468.5	72.5°	5642.8	813.6	149.6	130.1	100.2	65.8	76.3	77.8	64.3	53.8
5907.5	75°	3321.7	348.5	94.2	83.8	50.8	43.4	55.3	56.8	43.4	34.4
2159.6	77.5°	1130.7	131.6	59.8	49.4	25.4	23.9	35.9	35.9	23.9	13.5
433.7	80°	257.2	49.4	29.9	19.4	12.0	10.5	12.0	10.5	6.0	1.5
133.1	82.5°	73.3	19.4	12.0	7.5	4.5	4.5	1.5	0.0	0.0	0.0
46.4	85°	20.9	9.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
16.5	87.5°	9.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	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

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<u>180°</u>
2400.4
2192.5
1850.0
1425.3
1046.9
901.8
876.4
851.0
824.1
798.6
773.2
747.8
720.9
685.0
637.1
563.8
483.1
399.3
330.5
281.2
254.2
236.3
216.9
197.4
170.5
128.6
100.2
83.8
65.8
47.9
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