

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: P953518

Luminaire Tested: **GALN-SB7A-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-750-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25794 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

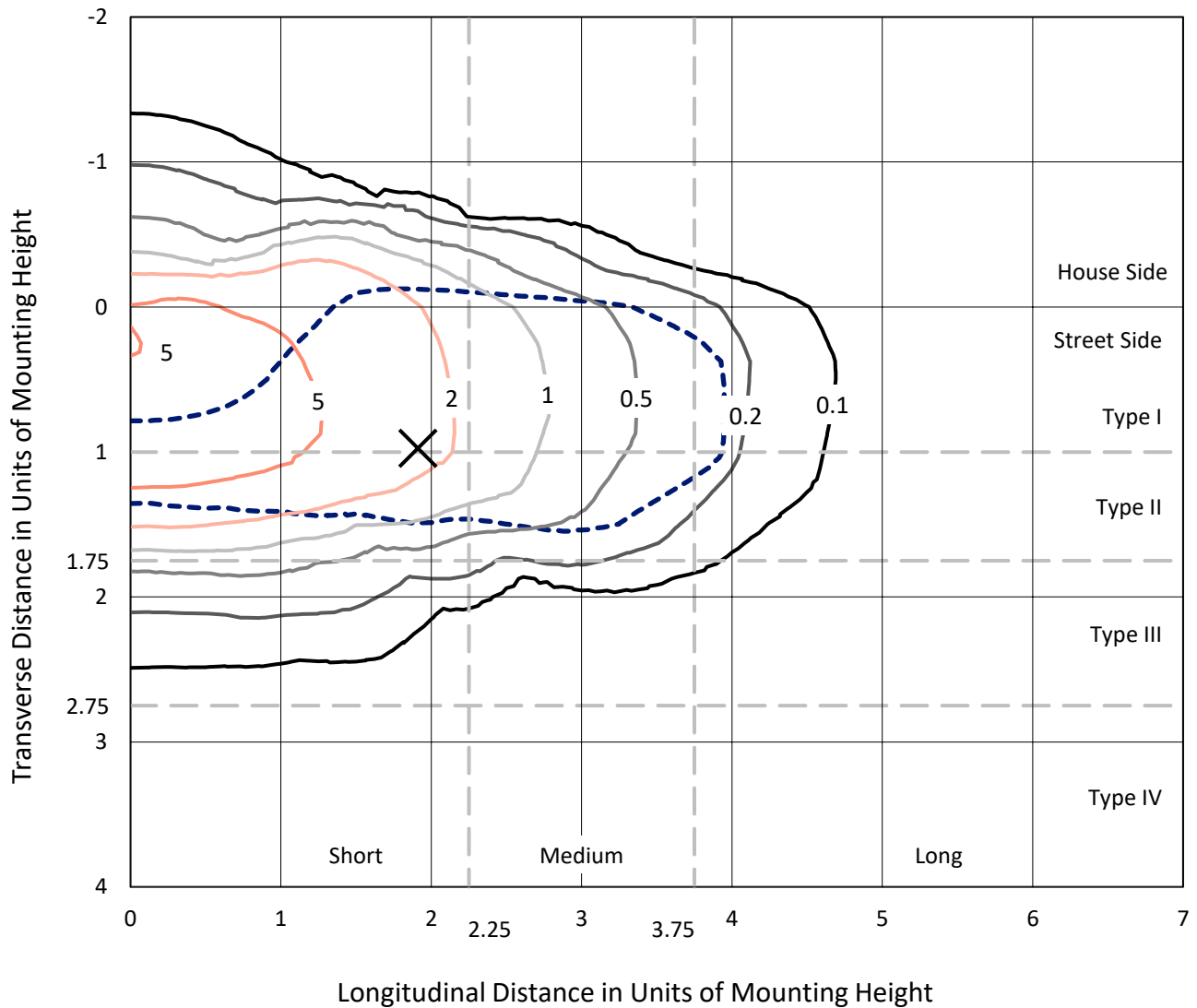
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

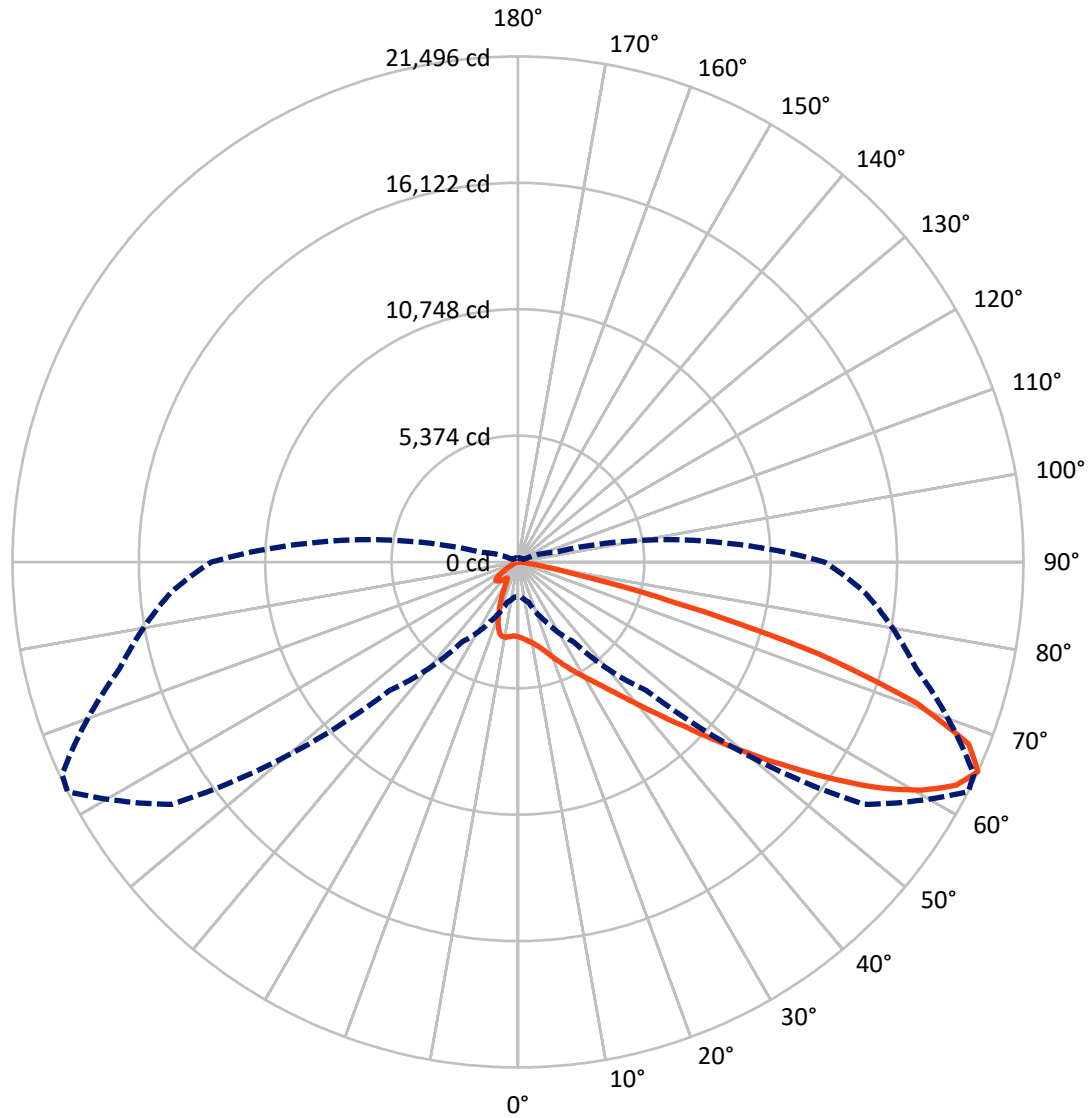
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3791.5	0.0	3791.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22002.5	0.0	22002.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	25794.0	0.0	25794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.2
10°-20°	832.2	3.2
20°-30°	1449.1	5.6
30°-40°	2611.9	10.1
40°-50°	5180.2	20.1
50°-60°	7056.3	27.4
60°-70°	5632.3	21.8
70°-80°	2548.7	9.9
80°-90°	183.2	0.7
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°	25794.0	100.0
0°-180°	25794.0	100.0

Coefficient of Utilization



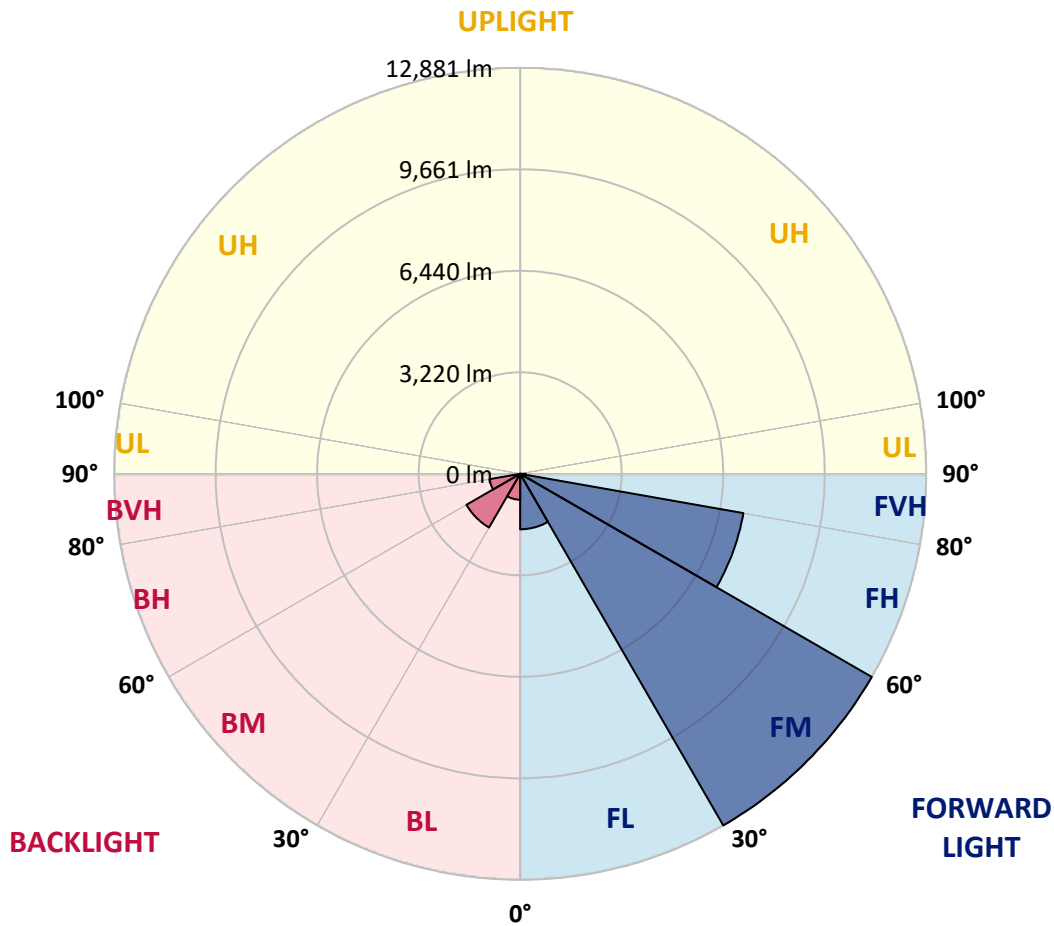
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.8	6.8			
FM (30°-60°)	12880.9	49.9			
FH (60°-80°)	7191.2	27.9			G3/7500
FVH (80°-90°)	169.6	0.7			G2/225
BL (0°-30°)	820.5	3.2	B2/1000		
BM (30°-60°)	1967.6	7.6	B2/2500		
BH (60°-80°)	989.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.6	0.1			G1/100
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°	63°	65°	75°
0°	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5
2.5°	3258.0	3249.1	3261.5	3256.2	3252.7	3245.6	3242.0	3238.5	3231.4	3226.1
5°	3266.9	3261.5	3274.0	3284.6	3295.3	3305.9	3311.2	3318.3	3311.2	3297.0
7.5°	3192.3	3188.8	3215.4	3247.3	3295.3	3336.1	3380.4	3405.3	3407.1	3401.7
10°	3187.0	3178.1	3204.8	3243.8	3305.9	3378.7	3456.7	3510.0	3517.1	3540.1
12.5°	3270.4	3261.5	3298.8	3341.4	3405.3	3481.6	3577.4	3651.9	3662.6	3694.5
15°	3410.6	3398.2	3440.8	3495.8	3577.4	3664.4	3765.5	3832.9	3841.8	3880.8
17.5°	3573.9	3561.4	3611.1	3669.7	3758.4	3877.3	3994.4	4068.9	4079.6	4104.4
20°	3783.3	3767.3	3806.3	3859.6	3953.6	4095.6	4235.8	4342.2	4340.4	4340.4
22.5°	4026.4	4001.5	4035.2	4077.8	4166.5	4338.7	4525.0	4651.0	4651.0	4601.3
25°	4287.2	4262.4	4299.6	4338.7	4416.7	4611.9	4830.2	4986.4	4993.5	4908.3
27.5°	4613.7	4581.8	4610.2	4656.3	4702.4	4901.2	5160.3	5341.3	5344.8	5213.5
30°	5241.9	5151.4	5062.7	5013.0	5034.3	5231.2	5508.1	5708.6	5726.3	5545.3
32.5°	6391.8	6374.0	6061.7	5653.6	5440.6	5586.2	5896.7	6138.0	6148.7	5916.2
35°	8178.7	8157.4	7655.2	6878.0	6184.2	6061.7	6368.7	6654.4	6647.3	6384.7
37.5°	10311.7	10292.1	9630.3	8590.4	7467.1	6780.4	6977.4	7277.3	7321.6	6977.4
40°	12134.1	12061.3	11642.5	10639.9	9170.7	7972.9	7843.3	8042.1	8088.2	7680.1
42.5°	13514.7	13452.5	13239.6	12613.2	11232.6	9736.7	8863.7	8940.0	8991.4	8501.7
45°	14229.8	14215.6	14300.8	14242.2	13333.7	11901.6	10322.3	10004.7	10024.2	9412.0
47.5°	14330.9	14323.8	14712.4	15262.5	15140.1	14343.3	12194.4	11332.0	11262.8	10439.4
50°	13734.7	13720.5	14465.8	15496.8	16346.8	16394.7	14320.3	12827.9	12675.3	11502.4
52.5°	11830.6	11827.1	13051.5	14767.5	16770.9	18190.5	16421.3	14471.1	14215.6	12627.4
55°	9103.2	9168.9	10572.5	12600.8	15997.2	19054.7	18307.6	16295.3	15903.1	13759.5
57.5°	6448.6	6544.4	7932.0	9738.5	13598.1	18543.6	19583.5	18123.0	17700.7	14888.1
60°	3463.8	3549.0	4938.5	7094.5	10116.5	16637.8	20256.0	19709.5	19310.2	15959.9
62.5°	2063.8	2092.1	2667.1	4580.0	6842.5	12710.8	19970.3	20917.9	20589.6	16859.6
65°	1481.7	1487.0	1776.3	2796.6	4154.1	7722.7	17966.9	21496.4	21395.2	17537.5
67.5°	1247.5	1243.9	1364.6	1857.9	2830.3	3868.4	13770.2	20678.3	21107.8	17966.9
70°	1070.0	1075.4	1217.3	1361.0	2127.6	2189.7	6846.1	18004.2	18919.8	18080.5
72.5°	796.8	814.5	945.8	1240.4	1605.9	1506.6	2363.6	13349.6	15005.2	17035.3
75°	562.5	571.4	665.4	1043.4	1197.8	1096.6	1206.7	6901.1	9023.4	13060.4
77.5°	433.0	449.0	504.0	729.3	1180.0	770.1	738.2	2388.5	3669.7	7889.5
80°	234.2	262.6	363.8	527.0	828.7	544.8	365.5	951.1	1243.9	3689.2
82.5°	120.7	134.9	253.8	379.7	472.0	475.6	181.0	395.7	512.8	1139.2
85°	47.9	58.6	170.4	209.4	243.1	234.2	81.6	159.7	184.5	315.9
87.5°	10.6	17.7	62.1	47.9	46.1	49.7	19.5	37.3	35.5	37.3
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°
3183.5	0°	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5	3183.5
3204.8	2.5°	3203.0	3195.9	3176.4	3155.1	3130.2	3116.0	3107.2	3105.4	3093.0	3084.1
3275.7	5°	3256.2	3249.1	3211.9	3167.5	3119.6	3082.3	3046.8	3014.9	2968.8	2959.9
3378.7	7.5°	3362.7	3343.2	3282.8	3222.5	3132.0	3023.8	2892.4	2741.6	2606.8	2565.9
3515.3	10°	3494.0	3467.4	3391.1	3284.6	3084.1	2789.5	2471.9	2177.3	1943.1	1877.4
3676.8	12.5°	3643.1	3620.0	3518.8	3321.9	2883.6	2349.4	1863.2	1497.7	1270.5	1213.8
3848.9	15°	3820.5	3786.8	3646.6	3265.1	2525.1	1785.2	1279.4	1062.9	981.3	970.7
4045.9	17.5°	4008.6	3953.6	3760.2	3061.0	2042.5	1268.8	988.4	926.3	890.8	880.2
4244.6	20°	4180.7	4109.8	3827.6	2752.3	1526.1	988.4	885.5	844.7	812.7	800.3
4443.4	22.5°	4352.9	4251.7	3827.6	2331.7	1144.6	876.6	812.7	775.5	738.2	722.2
4656.3	25°	4532.1	4397.2	3760.2	1863.2	921.0	803.9	743.5	702.7	670.8	651.2
4858.6	27.5°	4706.0	4519.7	3605.8	1419.6	819.8	740.0	679.6	640.6	610.4	596.2
5078.6	30°	4871.0	4640.3	3389.3	1077.1	754.2	677.9	621.1	587.4	557.2	543.0
5364.3	32.5°	5094.6	4792.9	3158.6	883.7	697.4	619.3	567.8	535.9	509.3	498.6
5735.2	35°	5405.2	5018.3	2959.9	867.7	649.5	571.4	519.9	489.8	463.1	454.3
6214.3	37.5°	5845.2	5382.1	2855.2	974.2	610.4	528.8	480.9	449.0	424.1	417.0
6823.0	40°	6388.2	5875.4	2912.0	1080.7	583.8	491.5	445.4	413.5	392.2	383.3
7522.1	42.5°	7032.4	6484.1	3226.1	1162.3	566.1	459.6	411.7	376.2	362.0	358.5
8315.3	45°	7772.3	7153.0	3706.9	1249.3	537.7	429.4	378.0	351.4	340.7	338.9
9177.8	47.5°	8613.5	7887.7	4264.1	1357.5	509.3	401.0	351.4	333.6	324.7	321.2
10077.4	50°	9447.5	8627.7	4837.3	1417.8	486.2	374.4	330.1	315.9	308.8	307.0
11028.6	52.5°	10320.5	9388.9	5300.5	1361.0	466.7	353.1	312.3	301.7	294.6	292.8
11905.2	55°	11152.8	10004.7	5380.3	1155.2	427.7	331.8	292.8	287.5	278.6	278.6
12794.2	57.5°	11869.7	10313.4	4816.0	848.2	388.6	299.9	273.3	268.0	260.9	259.1
13596.3	60°	12528.0	10224.7	3717.6	571.4	346.0	268.0	248.4	244.9	237.8	228.9
14293.7	62.5°	12898.9	9834.3	2542.9	372.6	303.4	234.2	220.0	218.3	202.3	184.5
14810.0	65°	13039.1	9032.2	1586.4	271.5	253.8	200.5	189.9	186.3	163.3	143.7
15102.8	67.5°	12916.6	7712.0	800.3	214.7	200.5	166.8	156.2	156.2	140.2	122.4
15085.1	70°	12426.9	5781.3	337.2	172.1	154.4	127.8	127.8	134.9	118.9	99.4
14302.5	72.5°	11363.9	3889.7	179.2	131.3	115.3	90.5	104.7	110.0	94.0	74.5
11706.4	75°	9034.0	2372.5	124.2	97.6	72.8	63.9	79.9	83.4	63.9	49.7
8026.1	77.5°	6178.8	1362.8	83.4	62.1	46.1	37.3	55.0	51.5	33.7	23.1
3094.7	80°	2713.2	567.8	47.9	28.4	17.7	14.2	19.5	14.2	10.6	7.1
424.1	82.5°	317.6	133.1	17.7	10.6	7.1	3.5	1.8	0.0	0.0	0.0
129.5	85°	65.7	16.0	8.9	3.5	1.8	0.0	0.0	0.0	0.0	0.0
23.1	87.5°	12.4	3.5	1.8	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>
3183.5
3093.0
2956.3
2546.4
1852.6
1197.8
960.0
874.8
793.2
713.4
644.1
596.2
544.8
498.6
454.3
415.2
381.5
358.5
337.2
321.2
307.0
292.8
276.8
257.3
227.1
181.0
142.0
120.7
97.6
74.5
47.9
24.8
7.1
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