

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: P947452

Luminaire Tested: **GALN-SB2D-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22103 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

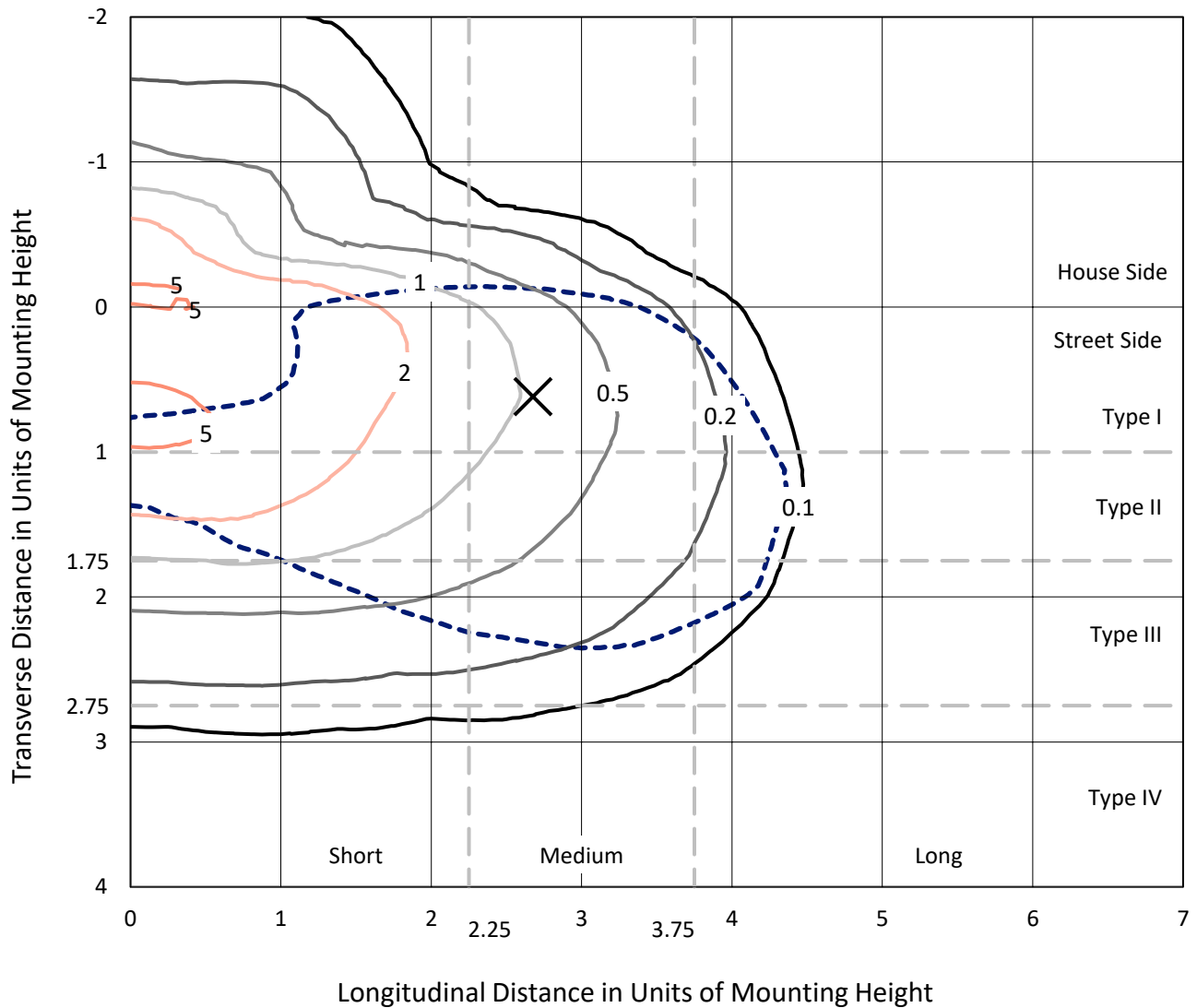
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

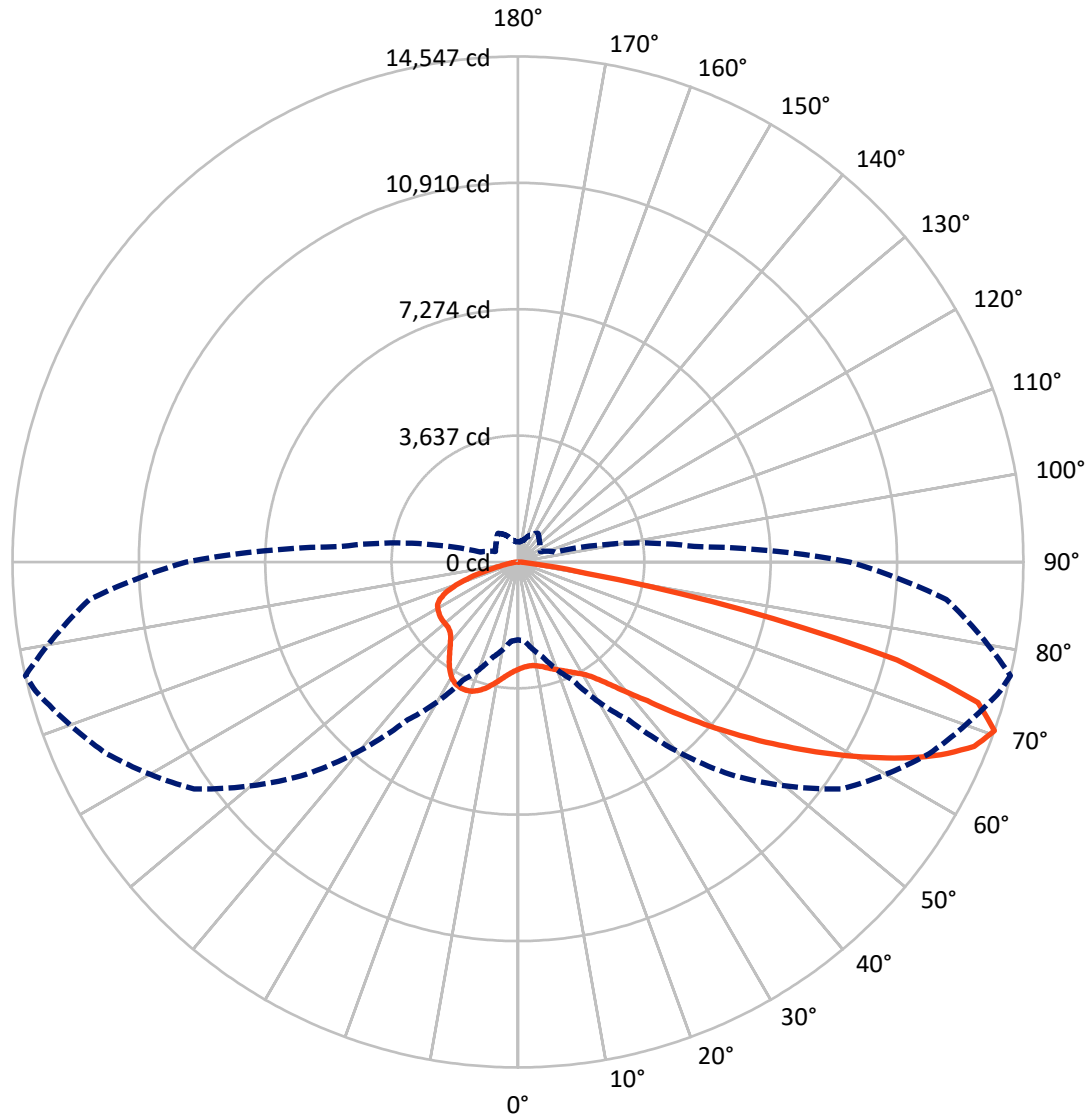
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4840.2	0.0	4840.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17262.8	0.0	17262.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	22103.0	0.0	22103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	1.3
10°-20°	848.8	3.8
20°-30°	1451.5	6.6
30°-40°	2334.2	10.6
40°-50°	3644.3	16.5
50°-60°	4867.9	22.0
60°-70°	5188.4	23.5
70°-80°	3194.0	14.5
80°-90°	279.9	1.3
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°	22103.0	100.0
0°-180°	22103.0	100.0

Coefficient of Utilization



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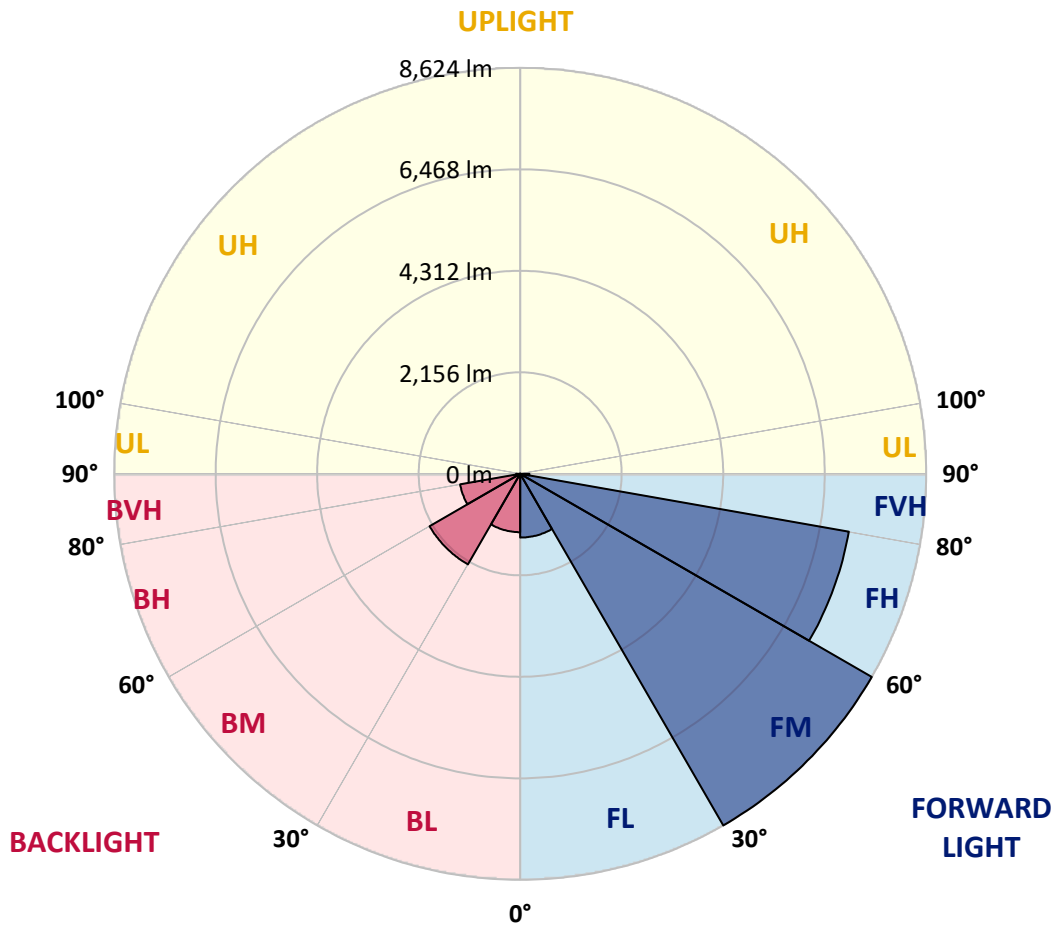
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.2	6.1			
FM (30°-60°)	8624.1	39.0			
FH (60°-80°)	7088.8	32.1			G3/7500
FVH (80°-90°)	195.7	0.9			G2/225
BL (0°-30°)	1240.2	5.6	B3/2500		
BM (30°-60°)	2222.2	10.1	B2/2500		
BH (60°-80°)	1293.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	84.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6
2.5°	2842.5	2841.3	2856.0	2860.6	2887.7	2907.0	2943.2	2981.7	3031.5	3037.2
5°	2678.3	2678.3	2695.3	2713.4	2748.5	2787.0	2842.5	2909.2	2995.3	3008.9
7.5°	2539.1	2548.1	2562.8	2597.9	2638.7	2694.2	2779.1	2874.1	2987.4	3008.9
10°	2427.0	2437.2	2455.3	2483.6	2544.7	2621.7	2732.6	2854.9	3006.6	3040.6
12.5°	2391.9	2402.1	2412.3	2433.8	2490.4	2581.0	2713.4	2864.0	3053.0	3087.0
15°	2473.4	2485.9	2477.9	2472.3	2501.7	2584.4	2722.5	2896.8	3110.7	3159.4
17.5°	2661.3	2665.9	2647.7	2594.5	2590.0	2634.2	2765.5	2942.1	3183.2	3236.4
20°	2964.7	2956.8	2919.4	2814.2	2754.2	2745.1	2839.1	3010.0	3257.9	3314.5
22.5°	3376.8	3367.7	3293.0	3126.6	2993.0	2904.7	2945.5	3098.3	3341.7	3405.1
25°	3890.7	3878.2	3768.4	3542.0	3334.9	3116.4	3090.4	3214.9	3444.7	3503.5
27.5°	4490.6	4480.5	4361.6	4062.8	3763.9	3406.2	3270.4	3351.9	3552.2	3619.0
30°	5135.9	5165.3	4954.8	4633.3	4255.2	3784.3	3512.6	3520.5	3691.5	3751.5
32.5°	5894.3	5945.3	5691.7	5284.2	4768.0	4195.2	3818.2	3756.0	3894.1	3943.9
35°	6646.0	6703.7	6493.2	6042.6	5448.3	4679.7	4137.5	4026.5	4163.5	4217.8
37.5°	7295.7	7372.7	7264.0	6872.4	6176.2	5263.8	4554.0	4344.6	4495.2	4563.1
40°	7808.5	7926.3	7918.3	7673.8	7034.3	5972.4	5082.7	4737.4	4907.2	4980.8
42.5°	8225.1	8327.0	8415.3	8402.8	7929.7	6777.3	5704.2	5248.0	5377.0	5461.9
45°	8512.6	8621.3	8811.5	9016.4	8791.1	7638.7	6416.2	5853.6	5971.3	6099.2
47.5°	8769.6	8893.0	9139.8	9464.7	9522.4	8503.6	7196.1	6558.8	6666.4	6798.8
50°	8792.3	8898.7	9281.3	9742.0	10042.0	9334.5	8033.8	7350.1	7450.8	7592.3
52.5°	8245.5	8413.0	9080.9	9734.1	10280.8	10029.5	8865.8	8173.0	8286.2	8456.0
55°	6400.3	6646.0	8493.4	9430.7	10195.9	10478.9	9657.1	9048.1	9193.0	9370.7
57.5°	5512.8	5620.4	6742.2	8878.3	9808.8	10595.5	10325.0	9932.2	10165.4	10360.1
60°	4954.8	5044.2	5707.5	8019.1	9299.4	10411.0	10841.2	10756.3	11159.3	11391.3
62.5°	4357.1	4442.0	5045.3	6695.8	8647.4	10104.2	11167.2	11517.0	12178.1	12431.6
65°	3763.9	3836.4	4414.8	5626.0	7818.7	9797.5	11335.9	12174.7	13121.0	13383.6
67.5°	3102.8	3162.8	3709.6	4746.5	6811.2	9377.5	11419.6	12692.0	13941.7	14167.0
70°	2239.1	2285.5	2850.4	3753.7	5546.8	8655.3	11385.7	13058.8	14367.4	14547.3
72.5°	1058.4	1100.3	1763.7	2437.2	3917.9	7249.3	10698.5	12767.8	13934.9	13845.5
75°	564.9	601.1	1013.1	1336.9	2069.3	4969.5	8754.9	10998.5	11701.5	11266.8
77.5°	382.6	410.9	627.1	802.6	945.2	2359.1	5627.2	7615.0	7326.3	6608.6
80°	303.4	332.8	513.9	543.4	457.3	852.4	2325.1	3525.1	2532.3	2025.1
82.5°	233.2	266.0	432.4	393.9	249.0	349.8	676.9	1115.0	648.6	493.6
85°	142.6	177.7	339.6	251.3	140.4	159.6	229.8	310.2	198.1	165.3
87.5°	72.4	101.9	172.1	91.7	63.4	37.4	61.1	61.1	52.1	45.3
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°
3083.6	0°	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6	3083.6
3067.7	2.5°	3094.9	3117.5	3156.0	3192.2	3220.5	3247.7	3274.9	3289.6	3294.1	3312.2
3084.7	5°	3131.1	3173.0	3247.7	3317.9	3362.0	3389.2	3408.5	3419.8	3422.0	3427.7
3131.1	7.5°	3197.9	3264.7	3368.8	3439.0	3471.8	3469.6	3461.7	3433.4	3422.0	3411.9
3199.0	10°	3291.9	3380.2	3508.1	3556.7	3536.4	3482.0	3411.9	3329.2	3290.7	3253.4
3291.9	12.5°	3408.5	3520.5	3646.2	3643.9	3543.2	3403.9	3240.9	3114.1	3033.8	2976.0
3406.2	15°	3550.0	3679.0	3775.2	3698.2	3477.5	3227.3	2988.5	2823.2	2750.8	2687.4
3521.7	17.5°	3696.0	3834.1	3878.2	3681.3	3312.2	2965.8	2695.3	2565.1	2493.8	2459.8
3646.2	20°	3838.6	3975.6	3939.4	3583.9	3060.9	2669.3	2428.1	2356.8	2342.1	2350.0
3767.3	22.5°	3989.2	4111.4	3951.8	3396.0	2740.6	2365.9	2233.4	2235.7	2268.5	2292.3
3894.1	25°	4143.1	4225.8	3919.0	3124.3	2396.4	2142.9	2110.0	2146.3	2210.8	2257.2
4036.7	27.5°	4291.4	4327.6	3847.7	2788.1	2101.0	1983.3	1988.9	2063.6	2161.0	2225.5
4209.9	30°	4459.0	4418.2	3710.7	2410.0	1896.1	1846.3	1893.8	1981.0	2078.4	2136.1
4428.4	32.5°	4648.0	4496.3	3493.4	2060.2	1751.2	1736.5	1814.6	1871.2	1914.2	1931.2
4718.2	35°	4883.5	4606.1	3214.9	1814.6	1621.0	1656.1	1730.8	1702.5	1685.5	1676.5
5107.6	37.5°	5189.1	4754.4	2888.9	1655.0	1515.7	1598.4	1628.9	1540.7	1473.9	1441.0
5579.6	40°	5557.0	4971.7	2575.3	1531.6	1449.0	1548.6	1495.4	1389.0	1304.1	1257.7
6110.5	42.5°	5965.6	5199.3	2311.5	1438.8	1411.6	1507.8	1396.9	1270.1	1133.1	1118.4
6743.3	45°	6394.7	5433.6	2131.6	1367.5	1393.5	1472.7	1340.3	1135.4	1038.0	1098.0
7378.4	47.5°	6823.7	5648.7	2022.9	1314.3	1384.4	1433.1	1290.5	1060.7	991.6	1078.8
8058.7	50°	7301.4	5841.1	1974.2	1275.8	1374.2	1417.3	1215.8	1041.4	943.0	1000.7
8762.8	52.5°	7775.7	5990.5	1938.0	1237.3	1359.5	1404.8	1179.5	1018.8	884.1	887.5
9471.5	55°	8248.9	6087.9	1898.4	1186.3	1326.7	1377.6	1176.1	993.9	839.9	824.1
10220.8	57.5°	8753.8	6143.4	1849.7	1129.7	1270.1	1308.6	1172.8	974.7	826.4	800.3
10987.2	60°	9267.7	6224.9	1786.3	1060.7	1194.3	1226.0	1164.8	967.9	818.4	774.3
11709.4	62.5°	9728.4	6253.2	1710.5	995.0	1096.9	1144.5	1147.8	962.2	796.9	721.1
12309.4	65°	10030.7	6130.9	1578.0	920.3	991.6	1060.7	1115.0	943.0	758.4	682.6
12606.0	67.5°	10018.2	5782.3	1370.9	824.1	889.8	967.9	1067.5	910.1	712.0	635.1
12381.8	70°	9551.8	5094.0	1108.2	712.0	777.7	868.2	1006.3	861.5	656.6	583.0
11009.8	72.5°	8192.3	3986.9	804.9	580.7	647.5	765.2	927.1	802.6	600.0	536.6
8136.8	75°	5852.4	2523.2	545.6	446.0	503.7	648.6	828.6	733.5	547.9	538.8
4075.2	77.5°	2989.6	1205.6	361.1	326.0	350.9	511.7	696.2	655.4	555.8	444.9
1159.2	80°	972.4	444.9	227.5	221.9	233.2	340.7	538.8	537.7	421.1	302.2
280.7	82.5°	310.2	191.3	148.3	142.6	137.0	213.9	375.8	425.6	284.1	191.3
100.7	85°	123.4	114.3	87.2	80.4	57.7	100.7	197.0	283.0	211.7	138.1
26.0	87.5°	45.3	45.3	23.8	17.0	12.5	34.0	53.2	84.9	121.1	71.3
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>
3083.6
3322.4
3436.8
3414.1
3242.1
2962.4
2680.6
2470.0
2346.6
2298.0
2269.7
2241.4
2149.7
1940.2
1685.5
1449.0
1261.0
1133.1
1129.7
1119.5
1043.7
911.3
835.4
803.7
777.7
721.1
682.6
638.4
589.8
533.2
508.3
396.2
267.2
190.2
141.5
70.2
0.0

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