

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: P949090

Luminaire Tested: **GALN-SB3D-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949090
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-SB3D-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22713 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

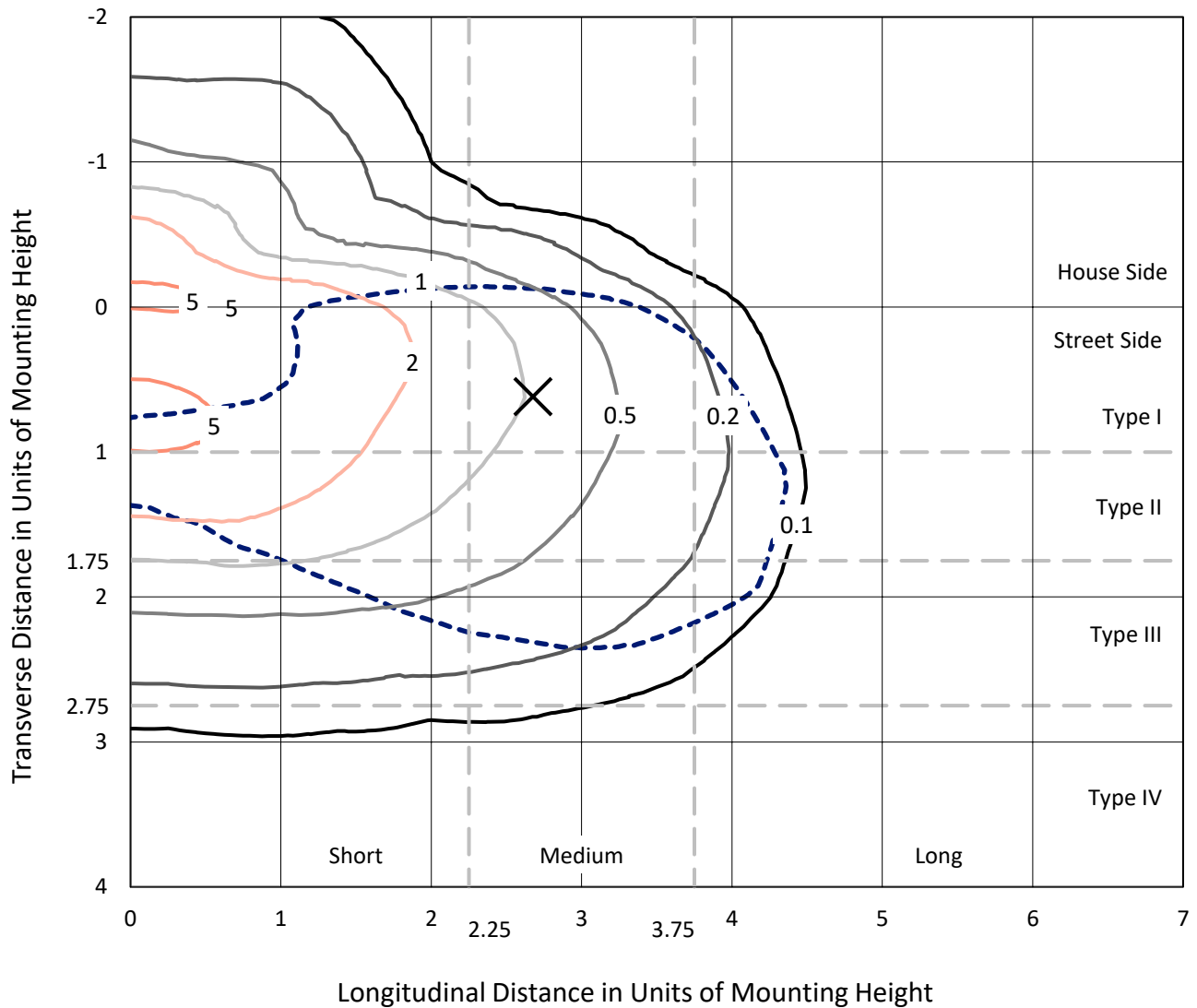
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

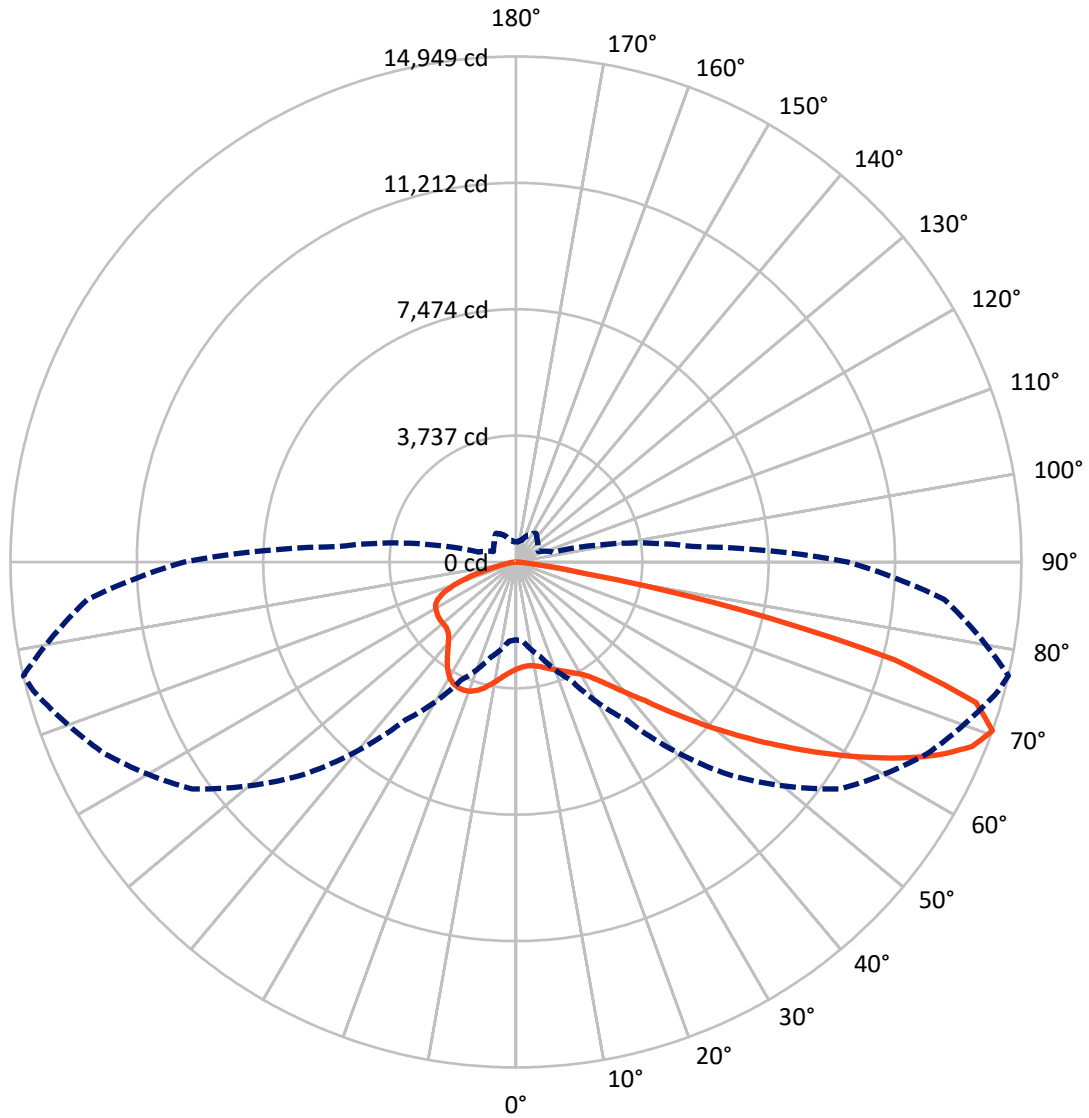
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	4973.8	0.0	4973.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	17739.2	0.0	17739.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	22713.0	0.0	22713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.2	1.3
10°-20°	872.2	3.8
20°-30°	1491.6	6.6
30°-40°	2398.6	10.6
40°-50°	3744.9	16.5
50°-60°	5002.2	22.0
60°-70°	5331.6	23.5
70°-80°	3282.1	14.5
80°-90°	287.6	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°	22713.0	100.0
0°-180°	22713.0	100.0

Coefficient of Utilization



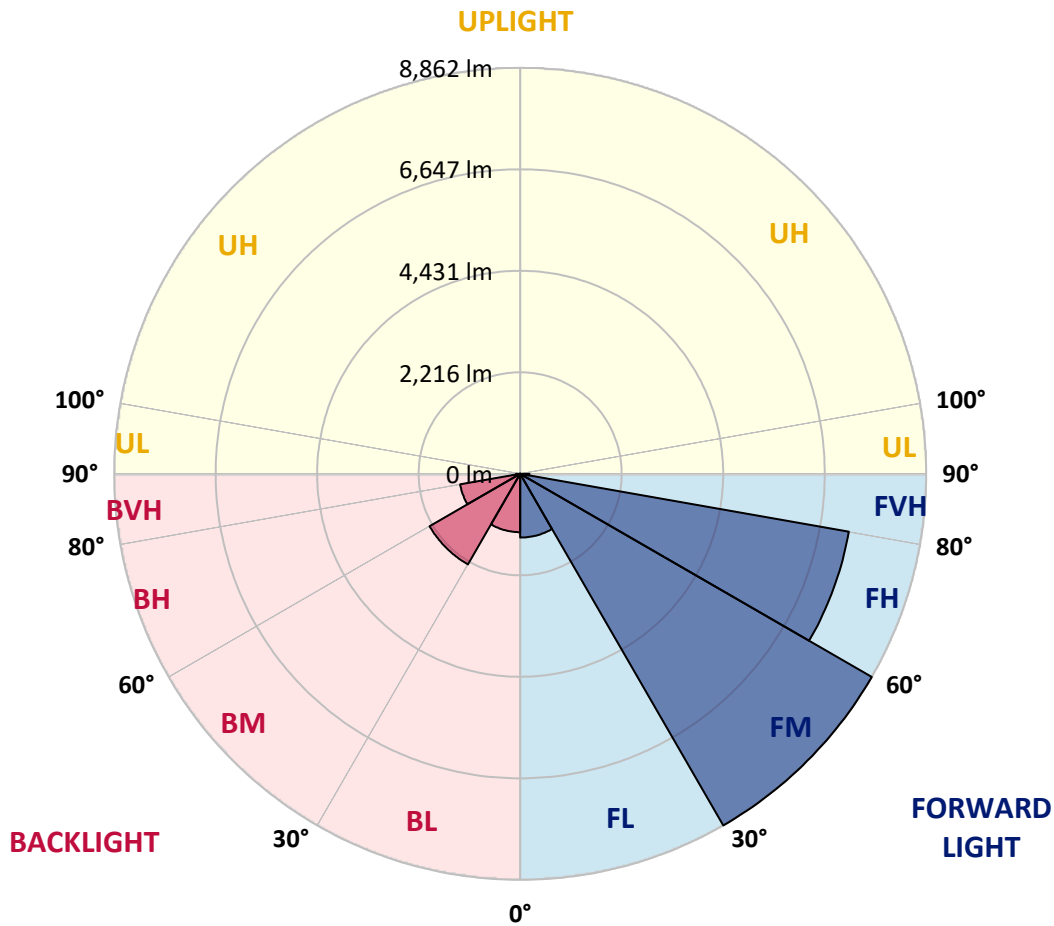
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.5	6.1			
FM (30°-60°)	8862.1	39.0			
FH (60°-80°)	7284.4	32.1			G3/7500
FVH (80°-90°)	201.1	0.9			G2/225
BL (0°-30°)	1274.4	5.6	B3/2500		
BM (30°-60°)	2283.6	10.1	B2/2500		
BH (60°-80°)	1329.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	86.5	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°	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7
2.5°	2920.9	2919.7	2934.9	2939.5	2967.4	2987.2	3024.4	3064.0	3115.2	3121.0
5°	2752.2	2752.2	2769.7	2788.3	2824.4	2863.9	2920.9	2989.5	3077.9	3091.9
7.5°	2609.2	2618.5	2633.6	2669.6	2711.5	2768.5	2855.8	2953.5	3069.8	3091.9
10°	2494.0	2504.5	2523.1	2552.2	2615.0	2694.1	2808.1	2933.7	3089.6	3124.5
12.5°	2457.9	2468.4	2478.9	2501.0	2559.1	2652.2	2788.3	2943.0	3137.3	3172.2
15°	2541.7	2554.5	2546.3	2540.5	2570.8	2655.7	2797.6	2976.7	3196.6	3246.6
17.5°	2734.8	2739.4	2720.8	2666.2	2661.5	2706.9	2841.8	3023.3	3271.0	3325.7
20°	3046.5	3038.4	3000.0	2891.8	2830.2	2820.9	2917.4	3093.1	3347.8	3406.0
22.5°	3470.0	3460.6	3383.9	3212.9	3075.6	2984.9	3026.8	3183.8	3433.9	3499.0
25°	3998.1	3985.3	3872.4	3639.8	3426.9	3202.4	3175.7	3303.6	3539.7	3600.2
27.5°	4614.6	4604.1	4482.0	4174.9	3867.8	3500.2	3360.6	3444.4	3650.3	3718.9
30°	5277.6	5307.9	5091.5	4761.1	4372.6	3888.7	3609.5	3617.7	3793.3	3855.0
32.5°	6057.0	6109.3	5848.8	5430.0	4899.6	4311.0	3923.6	3859.6	4001.6	4052.7
35°	6829.4	6888.7	6672.4	6209.4	5598.7	4808.8	4251.6	4137.7	4278.4	4334.2
37.5°	7497.1	7576.2	7464.5	7062.0	6346.6	5409.1	4679.7	4464.5	4619.2	4689.0
40°	8024.0	8145.0	8136.9	7885.6	7228.4	6137.3	5223.0	4868.2	5042.7	5118.3
42.5°	8452.1	8556.8	8647.5	8634.7	8148.5	6964.3	5861.6	5392.8	5525.4	5612.6
45°	8747.6	8859.2	9054.7	9265.2	9033.7	7849.6	6593.3	6015.1	6136.1	6267.5
47.5°	9011.6	9138.4	9392.0	9725.9	9785.2	8738.3	7394.7	6739.8	6850.3	6986.4
50°	9034.9	9144.2	9537.4	10010.9	10319.1	9592.1	8255.5	7552.9	7656.5	7801.9
52.5°	8473.1	8645.2	9331.5	10002.7	10564.6	10306.3	9110.5	8398.6	8514.9	8689.4
55°	6577.0	6829.4	8727.8	9691.0	10477.3	10768.1	9923.6	9297.8	9446.7	9629.3
57.5°	5665.0	5775.5	6928.3	9123.3	10079.5	10887.9	10609.9	10206.3	10445.9	10646.0
60°	5091.5	5183.4	5865.1	8240.4	9556.0	10698.3	11140.4	11053.1	11467.2	11705.7
62.5°	4477.3	4564.6	5184.6	6880.6	8886.0	10383.1	11475.4	11834.8	12514.2	12774.7
65°	3867.8	3942.2	4536.6	5781.3	8034.5	10067.9	11648.7	12510.7	13483.1	13753.0
67.5°	3188.4	3250.1	3811.9	4877.5	6999.2	9636.3	11734.8	13042.3	14326.5	14558.0
70°	2300.9	2348.6	2929.0	3857.3	5699.9	8894.1	11699.9	13419.2	14763.9	14948.8
72.5°	1087.6	1130.7	1812.3	2504.5	4026.0	7449.4	10993.8	13120.2	14319.5	14227.6
75°	580.5	617.7	1041.1	1373.8	2126.4	5106.6	8996.5	11302.1	12024.4	11577.7
77.5°	393.2	422.3	644.4	824.7	971.3	2424.2	5782.5	7825.1	7528.5	6791.0
80°	311.7	342.0	528.1	558.4	469.9	875.9	2389.3	3622.3	2602.2	2081.0
82.5°	239.6	273.4	444.4	404.8	255.9	359.4	695.6	1145.8	666.5	507.2
85°	146.6	182.6	349.0	258.2	144.2	164.0	236.1	318.7	203.6	169.8
87.5°	74.4	104.7	176.8	94.2	65.1	38.4	62.8	62.8	53.5	46.5
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°
3168.7	0°	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7	3168.7
3152.4	2.5°	3180.3	3203.6	3243.1	3280.3	3309.4	3337.3	3365.3	3380.4	3385.0	3403.6
3169.8	5°	3217.5	3260.6	3337.3	3409.5	3454.8	3482.7	3502.5	3514.2	3516.5	3522.3
3217.5	7.5°	3286.2	3354.8	3461.8	3533.9	3567.7	3565.3	3557.2	3528.1	3516.5	3506.0
3287.3	10°	3382.7	3473.4	3604.9	3654.9	3634.0	3578.1	3506.0	3421.1	3381.5	3343.2
3382.7	12.5°	3502.5	3617.7	3746.8	3744.5	3640.9	3497.9	3330.4	3200.1	3117.5	3058.2
3500.2	15°	3647.9	3780.5	3879.4	3800.3	3573.5	3316.4	3071.0	2901.1	2826.7	2761.5
3618.8	17.5°	3798.0	3939.9	3985.3	3782.9	3403.6	3047.7	2769.7	2635.9	2562.6	2527.7
3746.8	20°	3944.6	4085.3	4048.1	3682.8	3145.4	2742.9	2495.2	2421.9	2406.7	2414.9
3871.3	22.5°	4099.3	4224.9	4060.9	3489.7	2816.2	2431.2	2295.1	2297.4	2331.1	2355.6
4001.6	25°	4257.5	4342.4	4027.1	3210.5	2462.6	2202.0	2168.3	2205.5	2271.8	2319.5
4148.1	27.5°	4409.8	4447.1	3953.9	2865.1	2159.0	2038.0	2043.8	2120.6	2220.6	2286.9
4326.1	30°	4582.0	4540.1	3813.1	2476.5	1948.4	1897.2	1946.1	2035.7	2135.7	2195.0
4550.6	32.5°	4776.3	4620.4	3589.8	2117.1	1799.5	1784.4	1864.7	1922.8	1967.0	1984.5
4848.4	35°	5018.2	4733.2	3303.6	1864.7	1665.8	1701.8	1778.6	1749.5	1732.1	1722.8
5248.5	37.5°	5332.3	4885.6	2968.6	1700.7	1557.6	1642.5	1673.9	1583.2	1514.5	1480.8
5733.6	40°	5710.4	5109.0	2646.4	1573.9	1488.9	1591.3	1536.6	1427.3	1340.1	1292.4
6279.2	42.5°	6130.3	5342.8	2375.3	1478.5	1450.6	1549.4	1435.4	1305.2	1164.4	1149.3
6929.4	45°	6571.2	5583.6	2190.4	1405.2	1432.0	1513.4	1377.3	1166.7	1066.7	1128.3
7582.0	47.5°	7012.0	5804.6	2078.7	1350.5	1422.6	1472.7	1326.1	1090.0	1019.0	1108.6
8281.1	50°	7502.9	6002.3	2028.7	1311.0	1412.2	1456.4	1249.3	1070.2	969.0	1028.3
9004.7	52.5°	7990.3	6155.9	1991.5	1271.4	1397.1	1443.6	1212.1	1046.9	908.5	912.0
9732.8	55°	8476.5	6255.9	1950.8	1219.1	1363.3	1415.7	1208.6	1021.3	863.1	846.8
10502.9	57.5°	8995.3	6312.9	1900.7	1160.9	1305.2	1344.7	1205.1	1001.6	849.2	822.4
11290.4	60°	9523.5	6396.7	1835.6	1090.0	1227.2	1259.8	1197.0	994.6	841.0	795.7
12032.6	62.5°	9996.9	6425.7	1757.7	1022.5	1127.2	1176.0	1179.5	988.8	818.9	741.0
12649.1	65°	10307.5	6300.1	1621.6	945.7	1019.0	1090.0	1145.8	969.0	779.4	701.4
12953.9	67.5°	10294.7	5941.8	1408.7	846.8	914.3	994.6	1096.9	935.2	731.7	652.6
12723.5	70°	9815.4	5234.6	1138.8	731.7	799.1	892.2	1034.1	885.2	674.7	599.1
11313.7	72.5°	8418.4	4096.9	827.1	596.7	665.4	786.4	952.7	824.7	616.5	551.4
8361.4	75°	6014.0	2592.9	560.7	458.3	517.6	666.5	851.5	753.8	563.0	553.7
4187.7	77.5°	3072.1	1238.9	371.1	335.0	360.6	525.8	715.4	673.5	571.2	457.2
1191.2	80°	999.2	457.2	233.8	228.0	239.6	350.1	553.7	552.5	432.7	310.6
288.5	82.5°	318.7	196.6	152.4	146.6	140.8	219.9	386.2	437.4	292.0	196.6
103.5	85°	126.8	117.5	89.6	82.6	59.3	103.5	202.4	290.8	217.5	141.9
26.8	87.5°	46.5	46.5	24.4	17.4	12.8	34.9	54.7	87.2	124.5	73.3
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>
3168.7
3414.1
3531.6
3508.3
3331.5
3044.2
2754.6
2538.2
2411.4
2361.4
2332.3
2303.2
2209.0
1993.8
1732.1
1488.9
1295.9
1164.4
1160.9
1150.4
1072.5
936.4
858.5
825.9
799.1
741.0
701.4
656.1
606.0
547.9
522.3
407.1
274.5
195.4
145.4
72.1
0.0

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