

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: P940687

Luminaire Tested: **GALN-SB3D-840-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940687  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-840-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

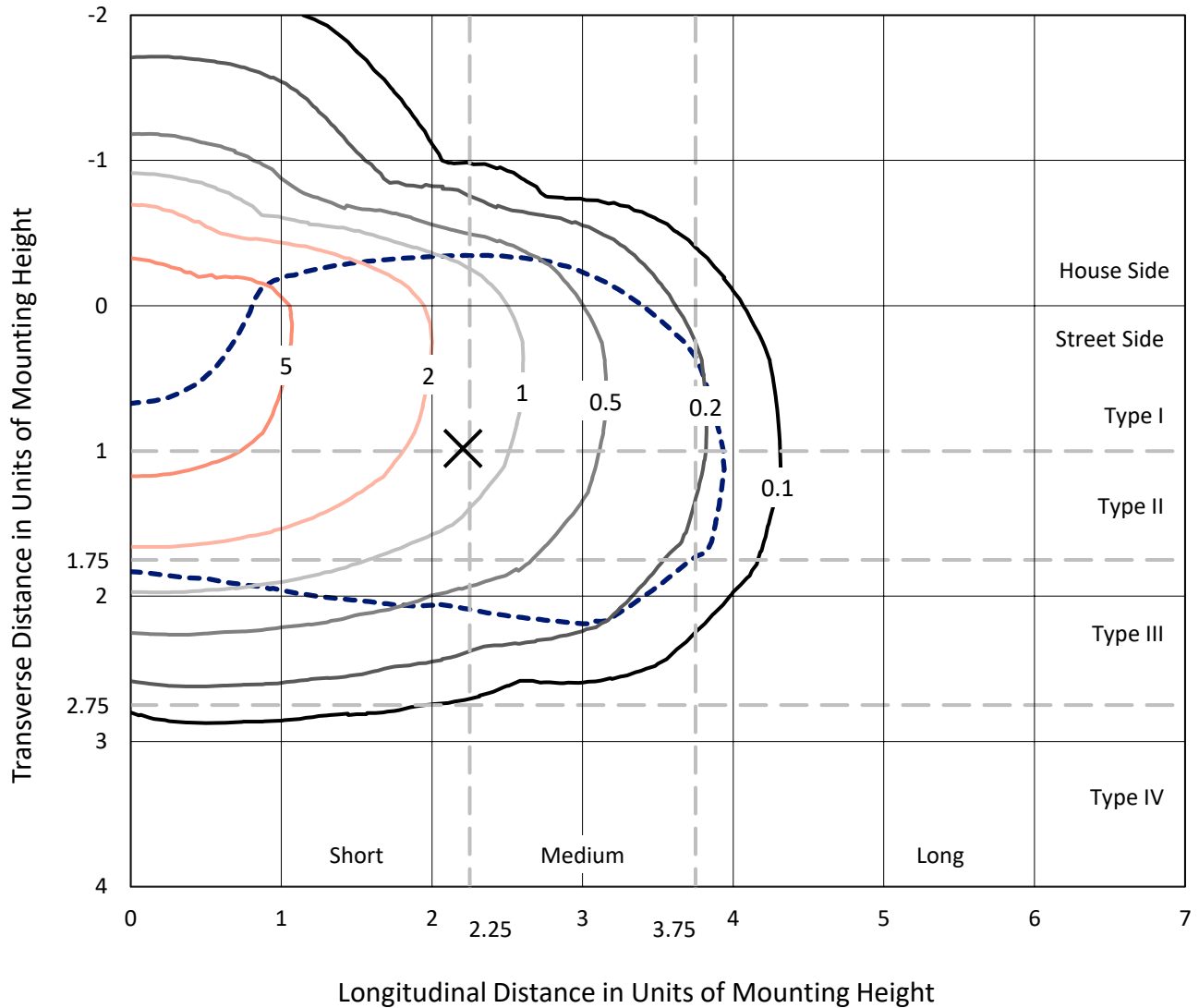
Lumens per Lamp: N/A  
Luminaire Lumens: 29224 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

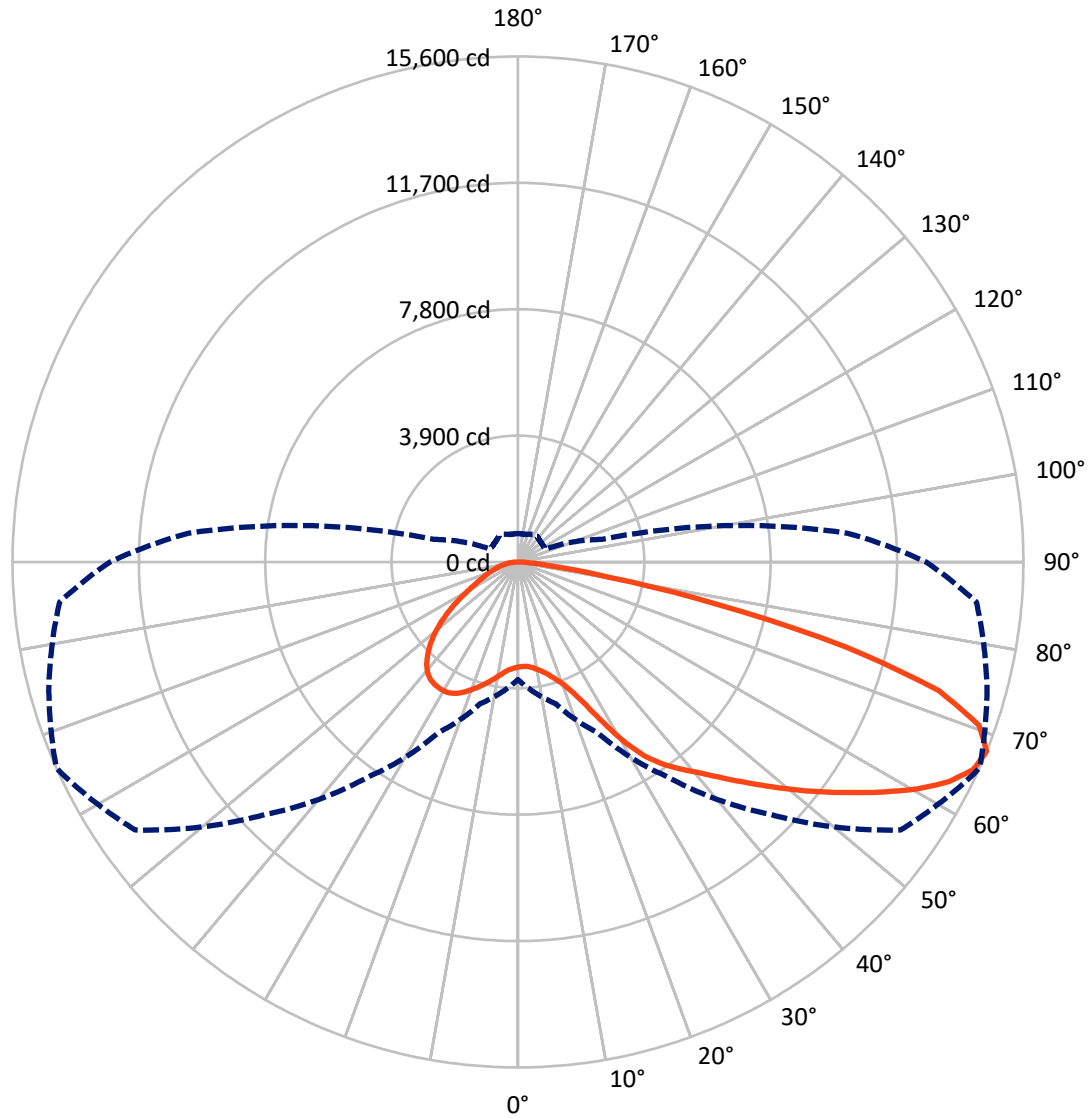
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7266.5	0.0	7266.5
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	21957.5	0.0	21957.5
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	29224.0	0.0	29224.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.4	1.1
10°-20°	1061.7	3.6
20°-30°	2046.5	7.0
30°-40°	3588.2	12.3
40°-50°	5334.5	18.3
50°-60°	6762.0	23.1
60°-70°	6616.4	22.6
70°-80°	3156.1	10.8
80°-90°	337.3	1.2
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°	29224.0	100.0
0°-180°	29224.0	100.0

**Coefficient of Utilization**



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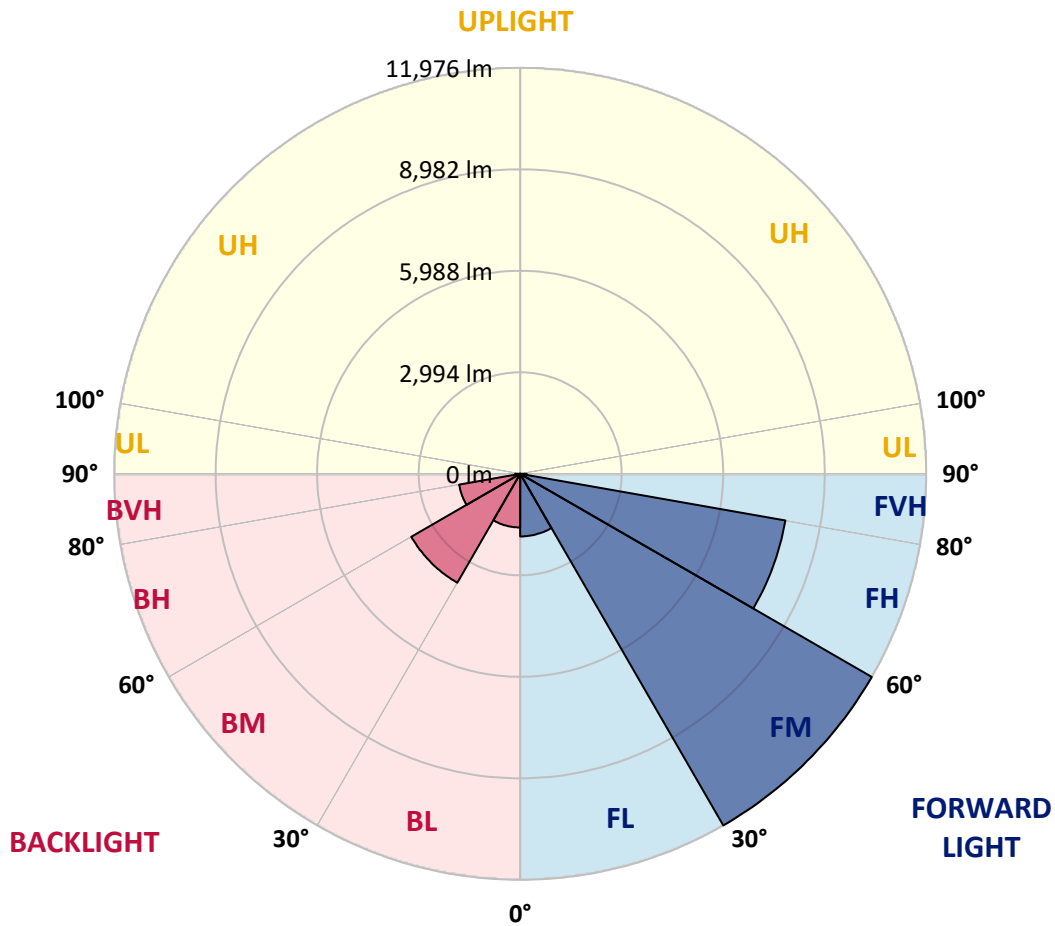
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.7	6.3			
FM (30°-60°)	11975.7	41.0			
FH (60°-80°)	7943.9	27.2			G4/12000
FVH (80°-90°)	191.2	0.7			G2/225
BL (0°-30°)	1582.9	5.4	B3/2500		
BM (30°-60°)	3708.9	12.7	B3/5000		
BH (60°-80°)	1828.6	6.3	B3/2500		G3/2500
BVH (80°-90°)	146.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3
2.5°	3207.5	3226.0	3221.4	3213.7	3212.2	3215.2	3219.8	3224.4	3222.9	3230.6
5°	3198.3	3216.8	3215.2	3215.2	3221.4	3233.7	3241.3	3249.0	3241.3	3250.5
7.5°	3204.5	3218.3	3224.4	3230.6	3245.9	3269.0	3287.4	3304.3	3295.1	3305.8
10°	3282.8	3293.5	3299.7	3299.7	3310.4	3336.5	3355.0	3385.7	3378.0	3394.9
12.5°	3425.6	3436.3	3436.3	3430.2	3437.9	3454.8	3460.9	3494.7	3480.9	3508.5
15°	3600.6	3622.1	3605.2	3594.5	3597.6	3614.4	3612.9	3639.0	3625.2	3648.2
17.5°	3794.1	3821.7	3794.1	3792.6	3786.4	3804.8	3806.4	3829.4	3804.8	3821.7
20°	4022.9	4061.3	4038.2	4045.9	4032.1	4039.8	4047.4	4081.2	4042.8	4055.1
22.5°	4345.3	4391.4	4366.8	4396.0	4386.8	4380.6	4379.1	4439.0	4379.1	4383.7
25°	4815.2	4870.4	4827.4	4867.4	4867.4	4887.3	4910.4	4987.1	4887.3	4858.2
27.5°	5509.2	5564.5	5480.0	5504.6	5496.9	5546.0	5521.5	5711.9	5604.4	5556.8
30°	6344.5	6442.7	6283.0	6276.9	6269.2	6347.5	6382.9	6508.8	6399.7	6352.1
32.5°	7247.3	7350.2	7159.8	7104.5	7075.3	7122.9	7093.8	7195.1	7119.9	7046.2
35°	8202.4	8303.7	8122.5	8015.0	7898.3	7798.5	7694.1	7720.2	7649.6	7537.5
37.5°	9105.2	9291.0	9099.1	8983.9	8768.9	8573.9	8282.2	8160.9	8094.9	7992.0
40°	10024.9	10130.9	9985.0	9886.7	9653.4	9347.8	8881.0	8624.6	8535.5	8435.7
42.5°	10702.1	10803.4	10725.1	10657.5	10474.8	10120.1	9516.7	9195.8	9066.8	8954.7
45°	11239.5	11314.7	11265.6	11290.1	11211.8	10867.9	10175.4	9808.4	9674.8	9538.2
47.5°	11456.0	11535.8	11614.1	11760.0	11893.6	11640.2	10883.2	10471.7	10330.5	10190.8
50°	11431.4	11512.8	11740.0	12050.2	12464.8	12380.3	11629.5	11178.1	11047.5	10887.9
52.5°	11234.9	11327.0	11618.7	12134.6	12794.9	12934.6	12389.5	11907.4	11784.6	11594.2
55°	10719.0	10774.2	11211.8	11942.7	12873.2	13321.5	13134.2	12684.3	12561.5	12295.9
57.5°	9762.4	9842.2	10479.4	11425.3	12676.6	13584.1	13788.3	13501.2	13383.0	13000.6
60°	8514.1	8641.5	9370.8	10556.2	12176.1	13582.6	14382.5	14304.2	14206.0	13694.6
62.5°	7101.4	7248.8	7950.5	9327.8	11300.9	13197.2	14754.1	14976.7	14926.1	14334.9
65°	5453.9	5555.2	6253.9	7738.7	9938.9	12369.6	14797.1	15435.8	15445.1	14821.7
67.5°	3631.3	3923.1	4529.6	5807.1	8114.8	11016.8	14419.4	15511.1	15600.1	14989.0
70°	1771.9	2155.8	2750.0	3774.1	5807.1	8942.4	13432.1	14893.8	15091.9	14500.8
72.5°	735.5	859.9	1183.8	1862.5	3333.5	6034.3	11448.3	13220.2	13587.2	12848.6
75°	495.9	537.4	677.1	955.0	1518.6	2975.7	8256.1	9857.6	10448.7	9704.0
77.5°	382.3	408.4	492.9	667.9	902.8	1125.5	4419.0	5940.6	6246.2	5782.5
80°	300.9	320.9	368.5	486.7	640.3	601.9	1506.3	2691.6	2868.2	2406.0
82.5°	261.0	268.7	264.1	330.1	425.3	351.6	494.4	993.4	1096.3	795.4
85°	188.9	210.4	219.6	204.2	225.7	178.1	202.7	351.6	386.9	345.5
87.5°	76.8	113.6	139.7	132.0	82.9	50.7	63.0	102.9	118.2	129.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3241.3	0°	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3	3241.3
3242.9	2.5°	3244.4	3255.1	3262.8	3272.0	3278.2	3287.4	3305.8	3316.6	3318.1	3325.8
3267.4	5°	3273.6	3288.9	3305.8	3330.4	3358.0	3381.1	3416.4	3440.9	3450.1	3457.8
3327.3	7.5°	3336.5	3358.0	3388.7	3431.7	3471.6	3502.4	3545.3	3574.5	3603.7	3614.4
3422.5	10°	3430.2	3460.9	3505.4	3563.8	3606.8	3646.7	3691.2	3715.8	3745.0	3757.2
3536.1	12.5°	3546.9	3579.1	3637.5	3718.9	3758.8	3786.4	3801.8	3795.6	3801.8	3812.5
3672.8	15°	3680.5	3715.8	3781.8	3869.3	3897.0	3872.4	3838.6	3807.9	3803.3	3806.4
3838.6	17.5°	3838.6	3864.7	3941.5	4015.2	3995.2	3893.9	3820.2	3771.1	3746.5	3738.8
4050.5	20°	4059.7	4059.7	4122.7	4168.7	4035.2	3863.2	3748.0	3668.2	3617.5	3596.0
4339.2	22.5°	4328.4	4303.9	4343.8	4311.5	4027.5	3777.2	3617.5	3479.3	3402.5	3371.8
4743.0	25°	4669.3	4640.1	4629.4	4429.8	3972.2	3640.5	3381.1	3213.7	3146.1	3129.2
5324.9	27.5°	5183.7	5110.0	4970.2	4494.3	3870.9	3425.6	3104.7	2949.6	2911.2	2912.7
6072.7	30°	5868.5	5721.1	5378.7	4505.0	3705.0	3121.6	2822.2	2711.6	2693.2	2700.9
6700.7	32.5°	6502.6	6362.9	5796.3	4455.9	3450.1	2823.7	2568.8	2495.1	2467.5	2476.7
7179.7	35°	7000.1	6961.7	6183.2	4386.8	3136.9	2544.2	2341.6	2278.6	2224.9	2212.6
7631.2	37.5°	7469.9	7454.6	6473.4	4290.0	2826.8	2346.2	2158.8	2075.9	1997.6	1954.6
8130.2	40°	7985.9	7970.5	6663.8	4141.1	2551.9	2174.2	1994.5	1885.5	1788.8	1710.5
8695.2	42.5°	8566.3	8475.7	6754.4	3927.7	2318.5	2028.3	1861.0	1713.6	1586.1	1514.0
9334.0	45°	9200.4	8996.2	6752.9	3655.9	2122.0	1894.7	1718.2	1509.3	1391.1	1323.6
9989.6	47.5°	9872.9	9493.7	6670.0	3355.0	1931.6	1747.3	1497.1	1337.4	1259.1	1217.6
10702.1	50°	10566.9	9958.9	6528.7	3009.5	1736.6	1580.0	1358.9	1249.9	1190.0	1151.6
11408.4	52.5°	11219.5	10381.2	6358.3	2617.9	1538.5	1417.2	1297.5	1213.0	1150.0	1107.1
12093.2	55°	11826.0	10745.1	6117.2	2217.2	1377.3	1308.2	1268.3	1197.6	1125.5	1074.8
12788.7	57.5°	12365.0	10981.5	5701.1	1841.0	1262.1	1233.0	1237.6	1171.5	1088.6	1045.6
13473.5	60°	12813.3	11155.0	5085.4	1492.5	1168.5	1159.3	1190.0	1122.4	1025.7	976.5
14052.4	62.5°	13082.0	11151.9	4330.0	1222.2	1088.6	1091.7	1127.0	1061.0	962.7	916.7
14354.9	65°	13059.0	10878.6	3500.8	1045.6	1011.9	1014.9	1061.0	993.4	910.5	882.9
14202.9	67.5°	12596.8	10212.3	2685.5	930.5	927.4	941.2	995.0	947.4	878.3	875.2
13297.0	70°	11345.4	8828.8	1934.7	838.4	839.9	859.9	930.5	918.2	861.4	867.5
11179.6	72.5°	9097.5	6731.4	1299.0	741.6	743.2	775.4	869.1	895.2	844.5	925.9
7932.1	75°	6058.9	4197.9	835.3	638.7	640.3	681.7	815.3	850.6	798.4	922.8
4127.3	77.5°	2911.2	1887.1	605.0	537.4	537.4	575.8	704.8	761.6	680.2	717.1
1326.6	80°	1005.7	709.4	476.0	433.0	423.8	449.9	594.2	660.2	586.5	540.5
433.0	82.5°	396.1	368.5	382.3	336.3	305.6	322.4	462.2	545.1	431.5	390.0
244.1	85°	227.2	239.5	270.2	222.6	176.6	198.1	339.3	391.5	325.5	287.1
79.8	87.5°	61.4	84.4	124.4	115.2	79.8	84.4	161.2	216.5	187.3	144.3
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>
3241.3
3324.2
3456.3
3616.0
3763.4
3815.6
3817.1
3749.6
3591.4
3367.2
3132.3
2917.3
2727.0
2489.0
2221.8
1956.2
1718.2
1518.6
1320.5
1208.4
1137.8
1088.6
1054.9
1018.0
955.0
902.8
881.3
879.8
866.0
938.2
930.5
657.2
506.7
388.5
293.3
148.9
0.0

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