

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: P948861

Luminaire Tested: **GALN-SB3D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32239 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

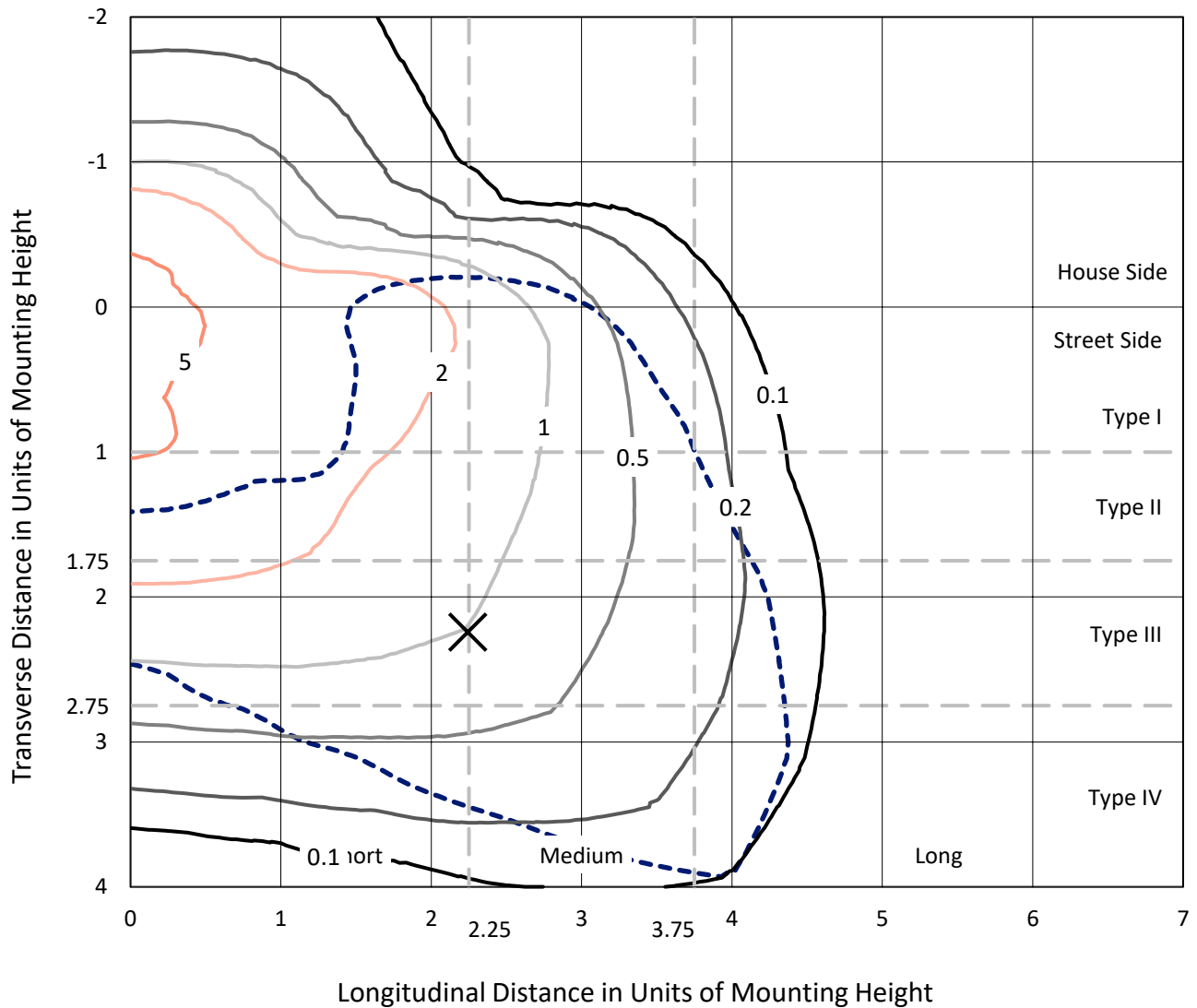
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

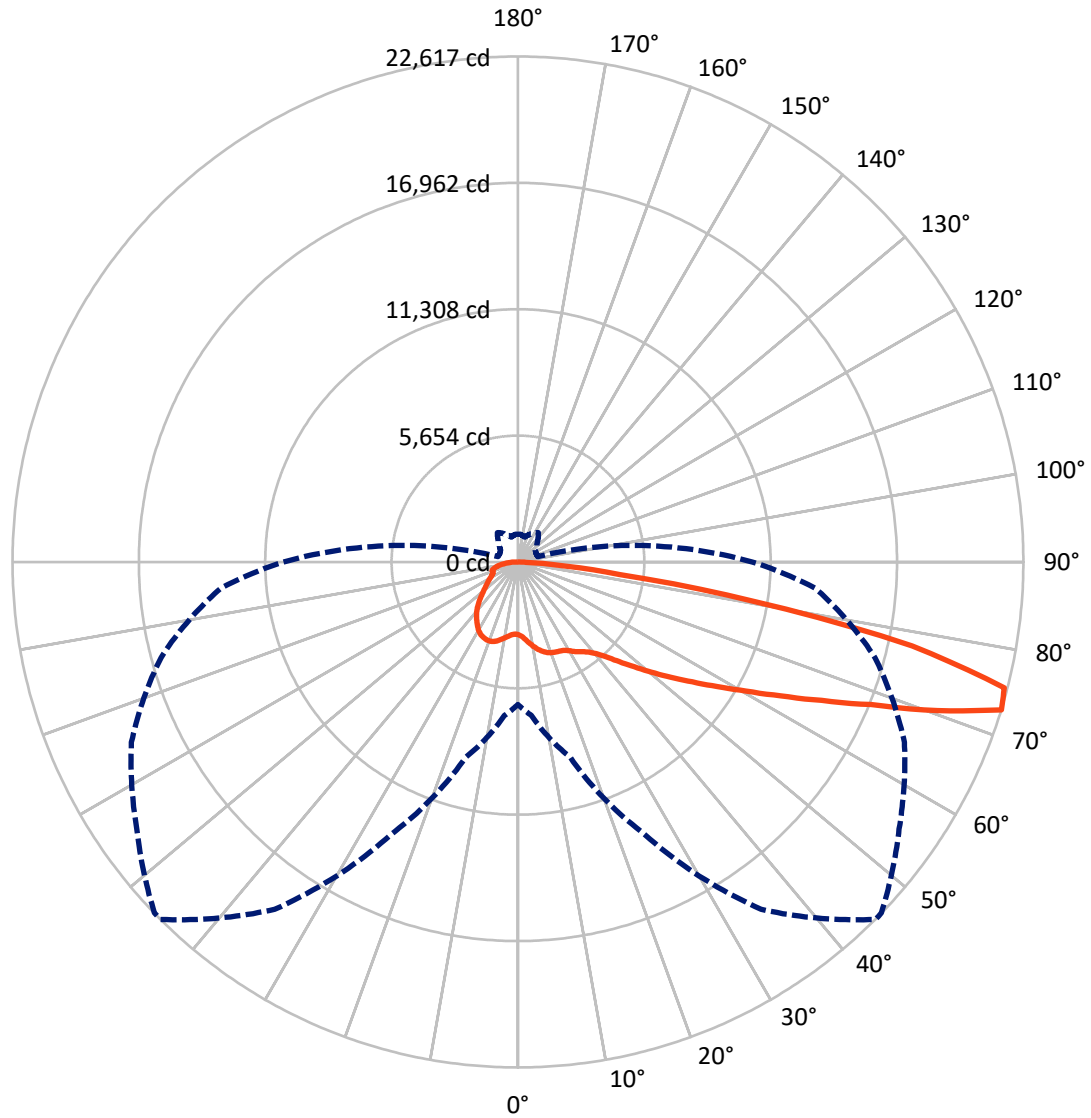
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7288.1	0.0	7288.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24950.9	0.0	24950.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	32239.0	0.0	32239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.0	1.0
10°-20°	1103.7	3.4
20°-30°	1919.9	6.0
30°-40°	2752.2	8.5
40°-50°	3875.3	12.0
50°-60°	5935.9	18.4
60°-70°	8599.0	26.7
70°-80°	6866.8	21.3
80°-90°	855.2	2.7
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°	32239.0	100.0
0°-180°	32239.0	100.0

Coefficient of Utilization



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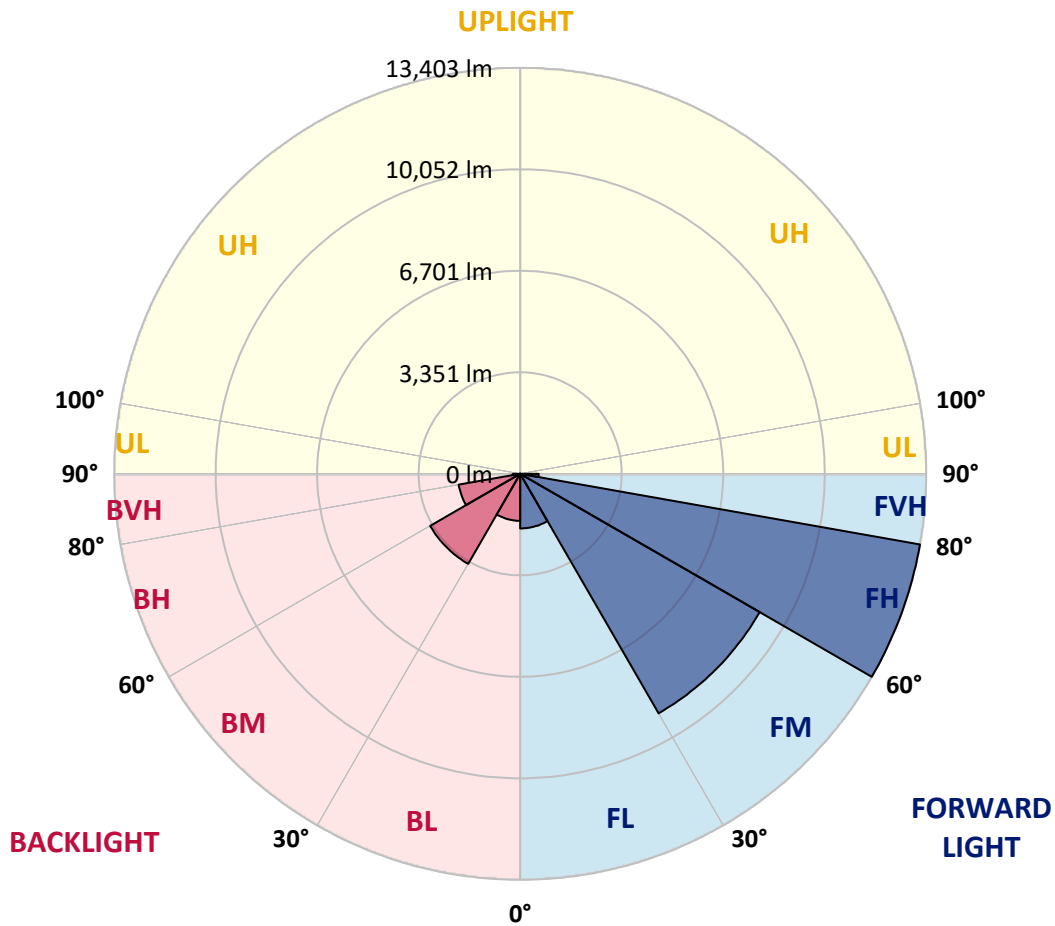
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.9	5.6			
FM (30°-60°)	9131.8	28.3			
FH (60°-80°)	13402.7	41.6			G5
FVH (80°-90°)	613.6	1.9			G4/750
BL (0°-30°)	1551.7	4.8	B3/2500		
BM (30°-60°)	3431.7	10.6	B3/5000		
BH (60°-80°)	2063.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	241.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3
2.5°	3379.7	3401.7	3381.4	3362.7	3354.2	3332.1	3330.4	3316.8	3308.3	3284.6
5°	3615.7	3644.6	3610.6	3573.3	3539.3	3485.0	3478.2	3439.1	3394.9	3344.0
7.5°	3882.4	3907.8	3868.8	3812.7	3753.3	3663.3	3661.6	3590.3	3520.6	3434.0
10°	4115.0	4149.0	4096.4	4019.9	3945.2	3843.3	3831.4	3749.9	3661.6	3549.5
12.5°	4320.5	4344.3	4293.4	4200.0	4113.3	4011.4	3996.2	3906.1	3807.6	3680.3
15°	4483.6	4514.1	4446.2	4346.0	4254.3	4154.1	4140.5	4059.0	3960.5	3826.3
17.5°	4590.6	4616.0	4546.4	4434.3	4346.0	4262.8	4252.6	4184.7	4098.1	3962.2
20°	4631.3	4658.5	4585.5	4471.7	4390.2	4325.6	4320.5	4271.3	4211.8	4087.9
22.5°	4672.1	4697.6	4602.5	4483.6	4412.2	4371.5	4369.8	4337.5	4313.7	4211.8
25°	4836.8	4843.6	4716.2	4544.7	4442.8	4407.1	4405.4	4403.8	4413.9	4334.1
27.5°	4979.5	4977.8	4869.1	4707.8	4549.8	4475.1	4473.4	4490.4	4522.6	4456.4
30°	5188.4	5169.7	5040.6	4872.5	4728.1	4612.6	4602.5	4587.2	4612.6	4560.0
32.5°	5631.6	5572.2	5363.3	5064.4	4875.9	4787.6	4774.0	4678.9	4689.1	4656.8
35°	6266.8	6188.7	5910.2	5427.8	5059.3	4933.6	4926.8	4806.3	4785.9	4757.0
37.5°	7022.6	6925.8	6601.4	5954.3	5375.2	5103.5	5093.3	4984.6	4901.4	4870.8
40°	7781.7	7659.4	7391.1	6596.3	5840.5	5387.1	5354.8	5190.1	5095.0	5044.0
42.5°	8518.8	8416.9	8187.6	7316.4	6414.6	5801.5	5730.1	5448.2	5376.9	5329.3
45°	9170.9	9079.2	8911.1	8085.7	7087.1	6365.3	6295.7	5835.4	5813.4	5813.4
47.5°	9700.8	9680.4	9502.1	8870.3	7880.2	7007.3	6886.7	6373.8	6433.2	6525.0
50°	10288.4	10232.4	10042.2	9643.1	8812.6	7742.7	7644.1	7034.5	7256.9	7508.3
52.5°	10828.5	10859.1	10646.8	10448.1	9865.6	8562.9	8389.7	7814.0	8294.6	8710.7
55°	11383.9	11385.6	11326.1	11298.9	10969.5	9469.8	9279.6	8751.5	9515.7	10032.0
57.5°	11905.2	11908.6	11997.0	12236.4	12250.0	10516.0	10300.3	9902.9	10872.7	11399.1
60°	12370.6	12394.4	12635.5	13196.0	13376.0	11715.0	11511.2	11263.3	12275.5	12805.4
62.5°	12526.8	12613.4	13150.1	13946.6	14488.4	13185.8	12985.4	12837.6	13749.6	14242.1
65°	12261.9	12460.6	13498.3	14566.5	15633.1	14933.3	14734.6	14573.3	15281.5	15745.1
67.5°	11611.4	11867.9	13477.9	15217.0	17022.3	17035.9	16850.8	16472.0	16923.8	17102.1
70°	9897.8	10281.6	12290.8	15459.8	18617.0	19911.1	19732.8	18758.0	18562.7	17699.9
72.5°	6377.2	6893.5	9050.4	13460.9	18972.0	22616.6	22606.4	20821.4	19080.7	16538.3
75°	2326.7	2642.6	4205.0	8449.2	15925.2	22479.0	22545.2	20468.2	17418.0	12774.8
77.5°	847.5	927.3	1372.2	3247.2	9794.2	18036.2	18173.7	16363.3	12397.8	6411.2
80°	445.0	489.1	703.1	1260.2	4196.6	10711.3	10927.0	9724.6	5826.9	1931.0
82.5°	246.3	266.6	394.0	684.4	1890.2	4580.4	4709.4	3841.6	2049.9	818.6
85°	132.5	141.0	185.1	373.6	923.9	1587.9	1623.6	1148.1	816.9	480.6
87.5°	39.1	47.6	61.1	118.9	361.7	356.6	365.1	227.6	322.7	242.9
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°
3252.3	0°	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3	3252.3
3277.8	2.5°	3267.6	3262.5	3243.8	3235.3	3225.1	3223.4	3231.9	3233.6	3235.3	3237.0
3315.1	5°	3298.1	3281.2	3264.2	3254.0	3257.4	3259.1	3276.1	3288.0	3296.4	3303.2
3384.8	7.5°	3357.6	3344.0	3315.1	3313.4	3318.5	3333.8	3355.9	3383.1	3398.3	3410.2
3474.8	10°	3445.9	3420.4	3386.5	3391.6	3401.7	3423.8	3469.7	3491.8	3517.2	3539.3
3585.2	12.5°	3535.9	3513.8	3474.8	3478.2	3495.1	3534.2	3578.4	3605.5	3622.5	3639.5
3704.0	15°	3653.1	3614.0	3571.6	3571.6	3602.1	3644.6	3665.0	3687.1	3697.2	3715.9
3831.4	17.5°	3773.7	3722.7	3666.7	3663.3	3700.6	3721.0	3732.9	3736.3	3739.7	3760.1
3955.4	20°	3894.3	3838.2	3758.4	3751.6	3760.1	3756.7	3755.0	3751.6	3756.7	3782.2
4082.8	22.5°	4013.1	3948.6	3838.2	3807.6	3783.9	3751.6	3749.9	3748.2	3751.6	3777.1
4220.3	25°	4152.4	4074.3	3926.5	3834.8	3755.0	3710.8	3715.9	3717.6	3721.0	3741.4
4363.0	27.5°	4303.5	4216.9	4008.0	3826.3	3682.0	3651.4	3642.9	3648.0	3659.9	3692.2
4505.6	30°	4454.7	4352.8	4082.8	3792.4	3590.3	3547.8	3520.6	3532.5	3569.9	3602.1
4629.6	32.5°	4592.3	4490.4	4142.2	3717.6	3473.1	3406.8	3371.2	3386.5	3423.8	3435.7
4767.2	35°	4753.6	4638.1	4167.7	3598.7	3345.7	3243.8	3196.2	3174.2	3192.8	3181.0
4928.5	37.5°	4933.6	4813.0	4164.3	3442.5	3196.2	3079.1	3012.8	2929.6	2890.5	2849.8
5166.3	40°	5200.3	5027.0	4123.5	3254.0	3011.1	2904.1	2785.2	2644.3	2556.0	2476.2
5550.1	42.5°	5563.7	5324.2	4048.8	3046.8	2802.2	2702.0	2540.7	2376.0	2236.7	2104.2
6132.6	45°	6105.5	5713.2	3955.4	2826.0	2576.4	2477.9	2302.9	2117.8	1959.9	1790.0
6959.7	47.5°	6886.7	6236.2	3867.1	2574.7	2338.6	2248.6	2090.6	1919.1	1732.3	1567.6
8155.3	50°	7960.0	6986.9	3785.6	2330.1	2104.2	2036.3	1910.6	1735.7	1547.2	1414.7
9556.5	52.5°	9325.5	8007.6	3751.6	2094.0	1885.1	1859.7	1759.5	1596.4	1418.1	1306.0
11190.2	55°	10893.0	9228.7	3751.6	1868.2	1693.2	1701.7	1632.1	1480.9	1326.4	1226.2
12875.0	57.5°	12492.9	10465.1	3683.7	1659.3	1530.2	1565.9	1521.7	1389.2	1250.0	1146.4
14646.3	60°	13967.0	11501.0	3408.5	1469.0	1385.8	1441.9	1413.0	1299.2	1129.4	1042.8
16127.3	62.5°	15099.8	12085.3	2878.7	1317.9	1266.9	1331.5	1316.2	1180.3	1107.3	1071.6
17343.3	65°	15667.0	11990.2	2201.0	1183.7	1166.7	1266.9	1234.7	1229.6	1171.8	1131.1
17739.0	67.5°	15318.9	11171.6	1596.4	1085.2	1109.0	1207.5	1331.5	1351.9	1244.9	1165.0
16624.9	70°	13792.1	9690.6	1188.8	991.8	1036.0	1209.2	1518.3	1414.7	1221.1	1127.7
13333.5	72.5°	10492.2	7226.4	922.2	893.3	940.9	1217.7	1601.5	1385.8	1153.2	1246.6
8306.5	75°	6000.2	3967.3	740.5	772.7	822.0	1137.9	1559.1	1311.1	1100.5	1144.7
3291.3	77.5°	2287.6	1525.1	611.4	653.9	660.6	993.5	1491.1	1306.0	1047.9	1022.4
986.7	80°	793.1	596.1	506.1	519.7	511.2	883.1	1430.0	1136.2	857.7	767.6
407.6	82.5°	324.4	297.2	400.8	383.8	363.4	686.1	1154.9	929.0	701.4	619.9
197.0	85°	141.0	188.5	264.9	232.7	210.6	475.5	925.6	786.3	592.7	511.2
64.5	87.5°	28.9	71.3	112.1	105.3	108.7	317.6	657.3	558.7	419.5	314.2
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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180°
3252.3
3243.8
3306.6
3413.6
3534.2
3646.3
3722.7
3766.9
3792.4
3794.1
3768.6
3724.4
3637.8
3478.2
3218.3
2875.3
2481.2
2092.3
1769.7
1548.9
1406.2
1297.5
1216.0
1129.4
1029.2
1059.8
1117.5
1151.5
1112.4
1236.4
1144.7
932.4
742.2
613.1
509.5
246.3
0.0

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