

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: P953481

Luminaire Tested: **GALN-SB7A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953481
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-SB7A-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31839 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

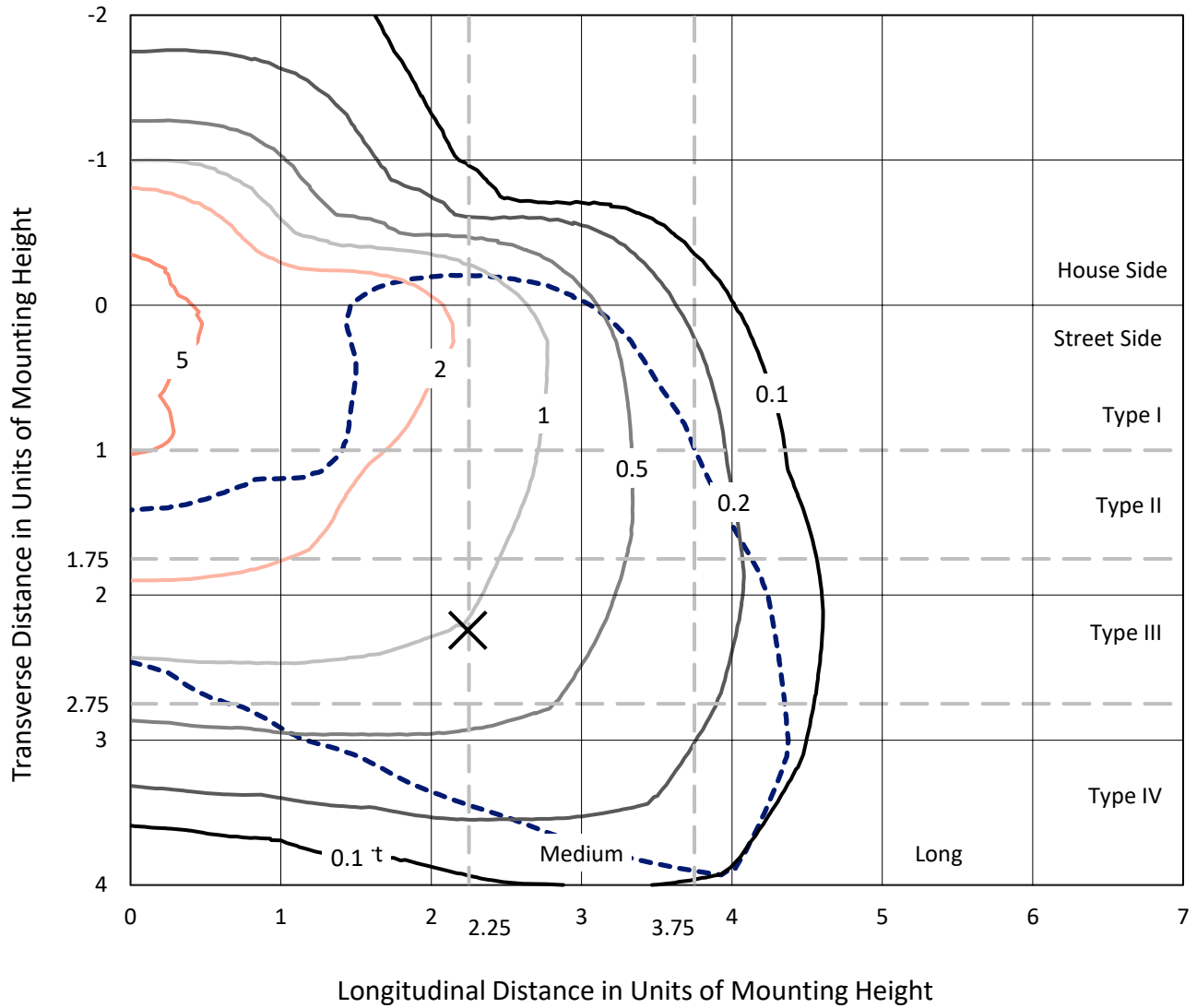
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

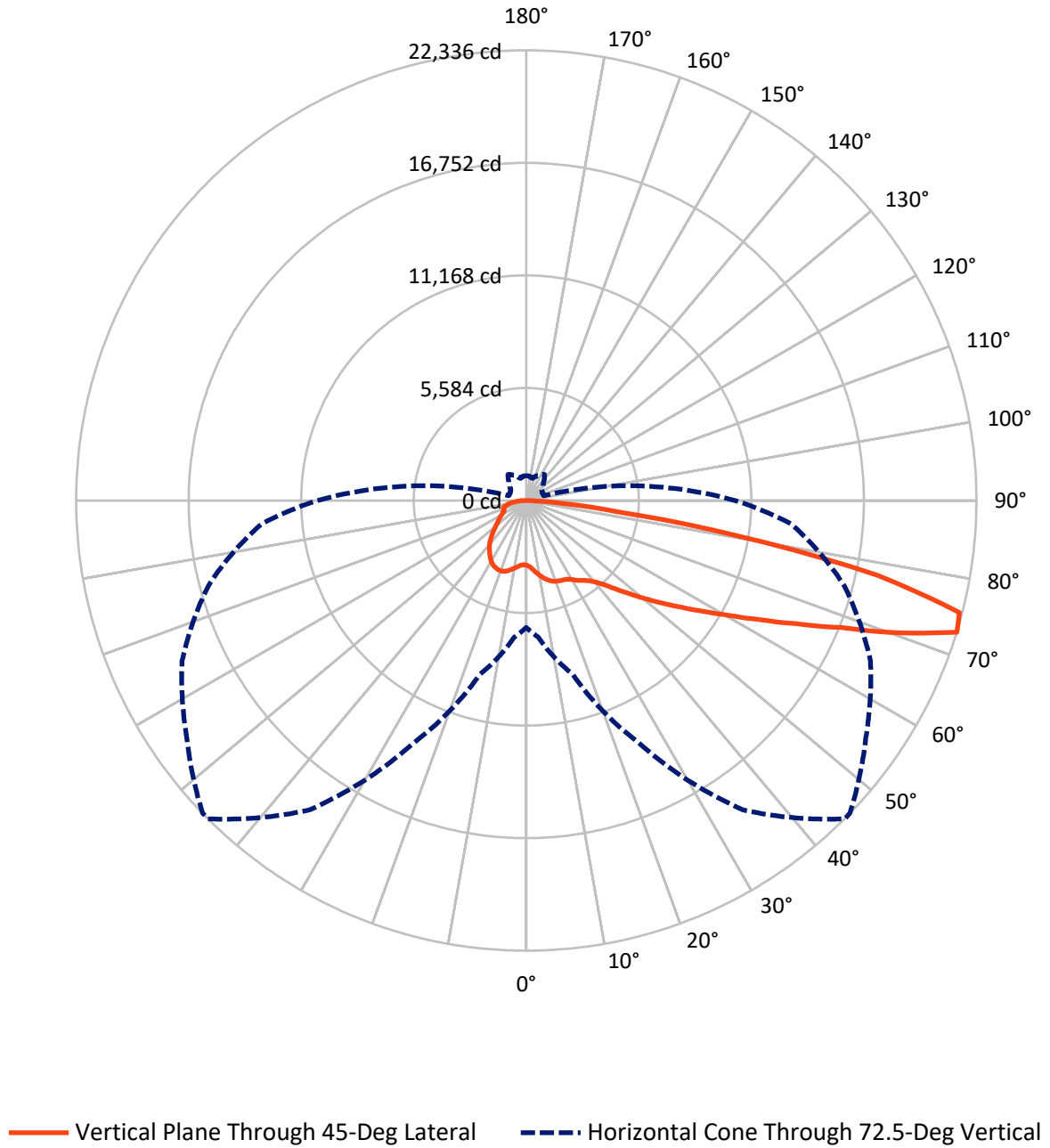
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7197.7	0.0	7197.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24641.3	0.0	24641.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	31839.0	0.0	31839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.9	1.0
10°-20°	1090.0	3.4
20°-30°	1896.1	6.0
30°-40°	2718.1	8.5
40°-50°	3827.2	12.0
50°-60°	5862.2	18.4
60°-70°	8492.3	26.7
70°-80°	6781.6	21.3
80°-90°	844.6	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°	31839.0	100.0
0°-180°	31839.0	100.0

Coefficient of Utilization



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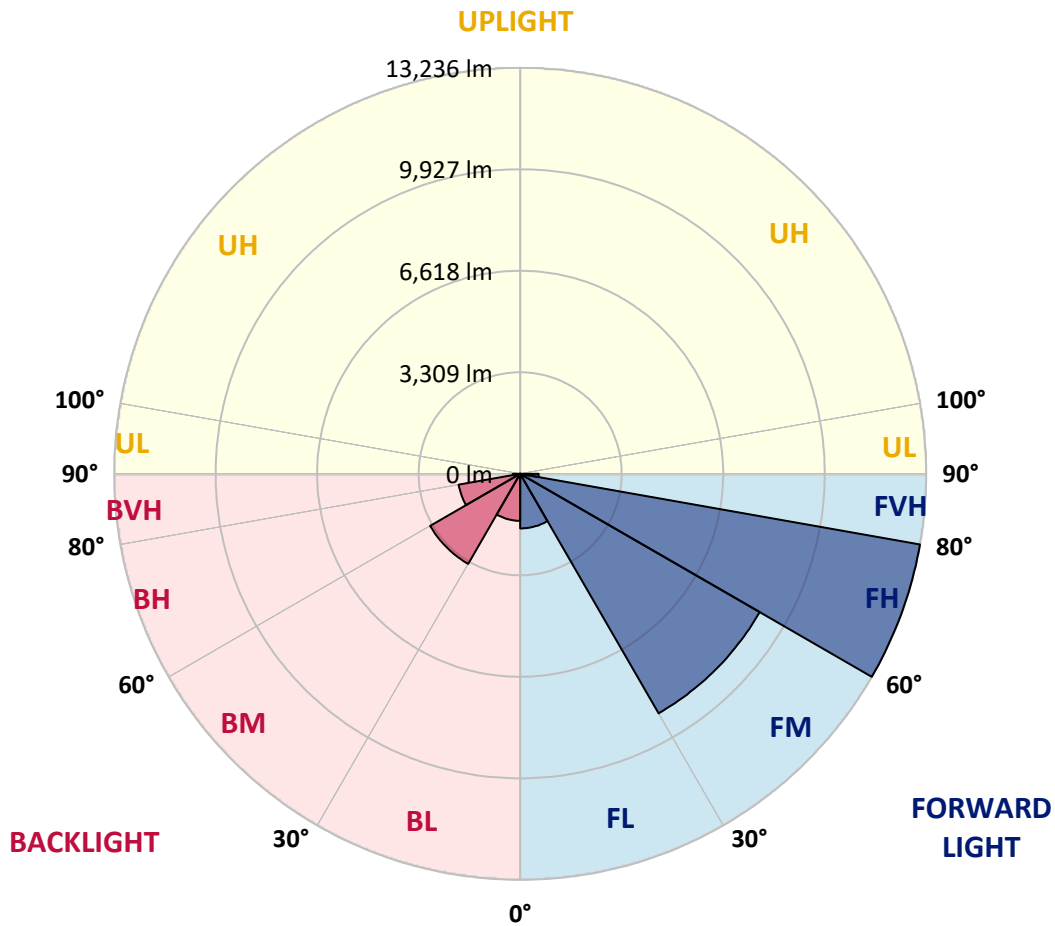
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.5	5.6			
FM (30°-60°)	9018.5	28.3			
FH (60°-80°)	13236.4	41.6			G5
FVH (80°-90°)	605.9	1.9			G4/750
BL (0°-30°)	1532.4	4.8	B3/2500		
BM (30°-60°)	3389.1	10.6	B3/5000		
BH (60°-80°)	2037.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	238.7	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°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	3337.7	3359.5	3339.4	3321.0	3312.6	3290.8	3289.1	3275.7	3267.3	3243.8
5°	3570.9	3599.4	3565.8	3528.9	3495.4	3441.7	3435.0	3396.4	3352.8	3302.5
7.5°	3834.2	3859.4	3820.8	3765.4	3706.7	3617.8	3616.2	3545.7	3476.9	3391.4
10°	4064.0	4097.5	4045.5	3970.1	3896.3	3795.6	3783.9	3703.4	3616.2	3505.5
12.5°	4266.9	4290.4	4240.1	4147.8	4062.3	3961.7	3946.6	3857.7	3760.4	3634.6
15°	4427.9	4458.1	4391.0	4292.1	4201.5	4102.6	4089.1	4008.6	3911.3	3778.8
17.5°	4533.6	4558.8	4490.0	4379.3	4292.1	4209.9	4199.8	4132.7	4047.2	3913.0
20°	4573.9	4600.7	4528.6	4416.2	4335.7	4272.0	4266.9	4218.3	4159.6	4037.1
22.5°	4614.1	4639.3	4545.3	4427.9	4357.5	4317.2	4315.6	4283.7	4260.2	4159.6
25°	4776.8	4783.5	4657.7	4488.3	4387.7	4352.5	4350.8	4349.1	4359.2	4280.3
27.5°	4917.7	4916.0	4808.7	4649.3	4493.4	4419.6	4417.9	4434.7	4466.5	4401.1
30°	5124.0	5105.6	4978.1	4812.0	4669.5	4555.4	4545.3	4530.3	4555.4	4503.4
32.5°	5561.8	5503.1	5296.8	5001.6	4815.4	4728.2	4714.8	4620.8	4630.9	4599.0
35°	6189.1	6111.9	5836.8	5360.5	4996.5	4872.4	4865.7	4746.6	4726.5	4698.0
37.5°	6935.4	6839.8	6519.5	5880.4	5308.5	5040.1	5030.1	4922.7	4840.5	4810.4
40°	7685.2	7564.4	7299.4	6514.4	5768.1	5320.2	5288.4	5125.7	5031.8	4981.4
42.5°	8413.1	8312.5	8086.0	7225.6	6335.0	5729.5	5659.0	5380.6	5310.2	5263.2
45°	9057.2	8966.6	8800.5	7985.4	6999.2	6286.3	6217.6	5763.0	5741.2	5741.2
47.5°	9580.5	9560.3	9384.2	8760.3	7782.4	6920.3	6801.3	6294.7	6353.4	6444.0
50°	10160.8	10105.4	9917.6	9523.4	8703.3	7646.6	7549.3	6947.2	7166.9	7415.1
52.5°	10694.2	10724.3	10514.7	10318.4	9743.2	8456.7	8285.6	7717.0	8191.7	8602.6
55°	11242.6	11244.3	11185.6	11158.7	10833.4	9352.4	9164.5	8642.9	9397.6	9907.5
57.5°	11757.5	11760.9	11848.1	12084.6	12098.0	10385.5	10172.5	9780.0	10737.8	11257.7
60°	12217.1	12240.6	12478.7	13032.2	13210.0	11569.7	11368.4	11123.5	12123.2	12646.5
62.5°	12371.4	12456.9	12987.0	13773.6	14308.6	13022.2	12824.3	12678.3	13579.0	14065.4
65°	12109.8	12306.0	13330.8	14385.8	15439.1	14748.1	14551.8	14392.5	15091.9	15549.8
67.5°	11467.4	11720.6	13310.7	15028.2	16811.1	16824.5	16641.7	16267.7	16713.8	16889.9
70°	9775.0	10154.1	12138.3	15268.0	18386.0	19664.1	19488.0	18525.2	18332.4	17480.3
72.5°	6298.1	6808.0	8938.1	13293.9	18736.6	22335.9	22325.9	20563.1	18843.9	16333.1
75°	2297.8	2609.8	4152.9	8344.3	15727.6	22200.1	22265.5	20214.2	17201.9	12616.3
77.5°	836.9	915.8	1355.2	3206.9	9672.7	17812.4	17948.3	16160.3	12243.9	6331.6
80°	439.4	483.0	694.4	1244.5	4144.5	10578.4	10791.4	9603.9	5754.6	1907.0
82.5°	243.2	263.3	389.1	675.9	1866.8	4523.5	4651.0	3793.9	2024.4	808.4
85°	130.8	139.2	182.8	369.0	912.4	1568.2	1603.5	1133.8	806.8	474.7
87.5°	38.6	47.0	60.4	117.4	357.3	352.2	360.6	224.8	318.7	239.8
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°
3211.9	0°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
3237.1	2.5°	3227.0	3222.0	3203.5	3195.2	3185.1	3183.4	3191.8	3193.5	3195.2	3196.8
3274.0	5°	3257.2	3240.4	3223.7	3213.6	3217.0	3218.6	3235.4	3247.2	3255.5	3262.3
3342.8	7.5°	3315.9	3302.5	3274.0	3272.3	3277.3	3292.4	3314.2	3341.1	3356.2	3367.9
3431.7	10°	3403.1	3378.0	3344.4	3349.5	3359.5	3381.3	3426.6	3448.4	3473.6	3495.4
3540.7	12.5°	3492.0	3470.2	3431.7	3435.0	3451.8	3490.4	3534.0	3560.8	3577.6	3594.3
3658.1	15°	3607.8	3569.2	3527.3	3527.3	3557.4	3599.4	3619.5	3641.3	3651.4	3669.8
3783.9	17.5°	3726.9	3676.5	3621.2	3617.8	3654.7	3674.9	3686.6	3690.0	3693.3	3713.4
3906.3	20°	3845.9	3790.6	3711.8	3705.0	3713.4	3710.1	3708.4	3705.0	3710.1	3735.2
4032.1	22.5°	3963.3	3899.6	3790.6	3760.4	3736.9	3705.0	3703.4	3701.7	3705.0	3730.2
4168.0	25°	4100.9	4023.7	3877.8	3787.2	3708.4	3664.8	3669.8	3671.5	3674.9	3695.0
4308.9	27.5°	4250.2	4164.6	3958.3	3778.8	3636.3	3606.1	3597.7	3602.7	3614.5	3646.3
4449.7	30°	4399.4	4298.8	4032.1	3745.3	3545.7	3503.8	3476.9	3488.7	3525.6	3557.4
4572.2	32.5°	4535.3	4434.7	4090.8	3671.5	3430.0	3364.6	3329.3	3344.4	3381.3	3393.1
4708.0	35°	4694.6	4580.6	4116.0	3554.1	3304.2	3203.5	3156.6	3134.8	3153.2	3141.5
4867.4	37.5°	4872.4	4753.3	4112.6	3399.8	3156.6	3040.9	2975.4	2893.3	2854.7	2814.4
5102.2	40°	5135.7	4964.7	4072.4	3213.6	2973.8	2868.1	2750.7	2611.5	2524.3	2445.4
5481.3	42.5°	5494.7	5258.2	3998.6	3009.0	2767.5	2668.5	2509.2	2346.5	2208.9	2078.1
6056.6	45°	6029.7	5642.3	3906.3	2790.9	2544.4	2447.1	2274.4	2091.5	1935.5	1767.8
6873.4	47.5°	6801.3	6158.9	3819.1	2542.7	2309.6	2220.7	2064.7	1895.3	1710.8	1548.1
8054.2	50°	7861.3	6900.2	3738.6	2301.2	2078.1	2011.0	1886.9	1714.2	1528.0	1397.1
9437.9	52.5°	9209.8	7908.2	3705.0	2068.1	1861.7	1836.6	1737.6	1576.6	1400.5	1289.8
11051.4	55°	10757.9	9114.2	3705.0	1845.0	1672.2	1680.6	1611.8	1462.6	1309.9	1211.0
12715.2	57.5°	12337.9	10335.2	3638.0	1638.7	1511.2	1546.4	1502.8	1372.0	1234.5	1132.1
14464.6	60°	13793.7	11358.3	3366.2	1450.8	1368.6	1424.0	1395.5	1283.1	1115.4	1029.8
15927.2	62.5°	14912.4	11935.3	2842.9	1301.5	1251.2	1315.0	1299.9	1165.7	1093.6	1058.3
17128.1	65°	15472.6	11841.4	2173.7	1169.0	1152.3	1251.2	1219.4	1214.3	1157.3	1117.0
17518.9	67.5°	15128.8	11033.0	1576.6	1071.8	1095.2	1192.5	1315.0	1335.1	1229.4	1150.6
16418.6	70°	13621.0	9570.4	1174.1	979.5	1023.1	1194.2	1499.5	1397.1	1205.9	1113.7
13168.1	72.5°	10362.1	7136.7	910.7	882.2	929.2	1202.6	1581.6	1368.6	1138.9	1231.1
8203.4	75°	5925.7	3918.1	731.3	763.1	811.8	1123.8	1539.7	1294.8	1086.9	1130.5
3250.5	77.5°	2259.3	1506.2	603.8	645.7	652.5	981.2	1472.6	1289.8	1034.9	1009.7
974.5	80°	783.3	588.7	499.8	513.2	504.9	872.2	1412.2	1122.1	847.0	758.1
402.5	82.5°	320.4	293.5	395.8	379.1	358.9	677.6	1140.5	917.5	692.7	612.2
194.6	85°	139.2	186.2	261.7	229.8	208.0	469.6	914.1	776.6	585.4	504.9
63.7	87.5°	28.5	70.4	110.7	104.0	107.3	313.6	649.1	551.8	414.3	310.3
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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180°
3211.9
3203.5
3265.6
3371.3
3490.4
3601.1
3676.5
3720.1
3745.3
3747.0
3721.8
3678.2
3592.7
3435.0
3178.4
2839.6
2450.5
2066.4
1747.7
1529.7
1388.8
1281.4
1200.9
1115.4
1016.4
1046.6
1103.6
1137.2
1098.6
1221.0
1130.5
920.8
733.0
605.5
503.2
243.2
0.0

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