

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: P941809

Luminaire Tested: **GALN-SB5C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37391 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

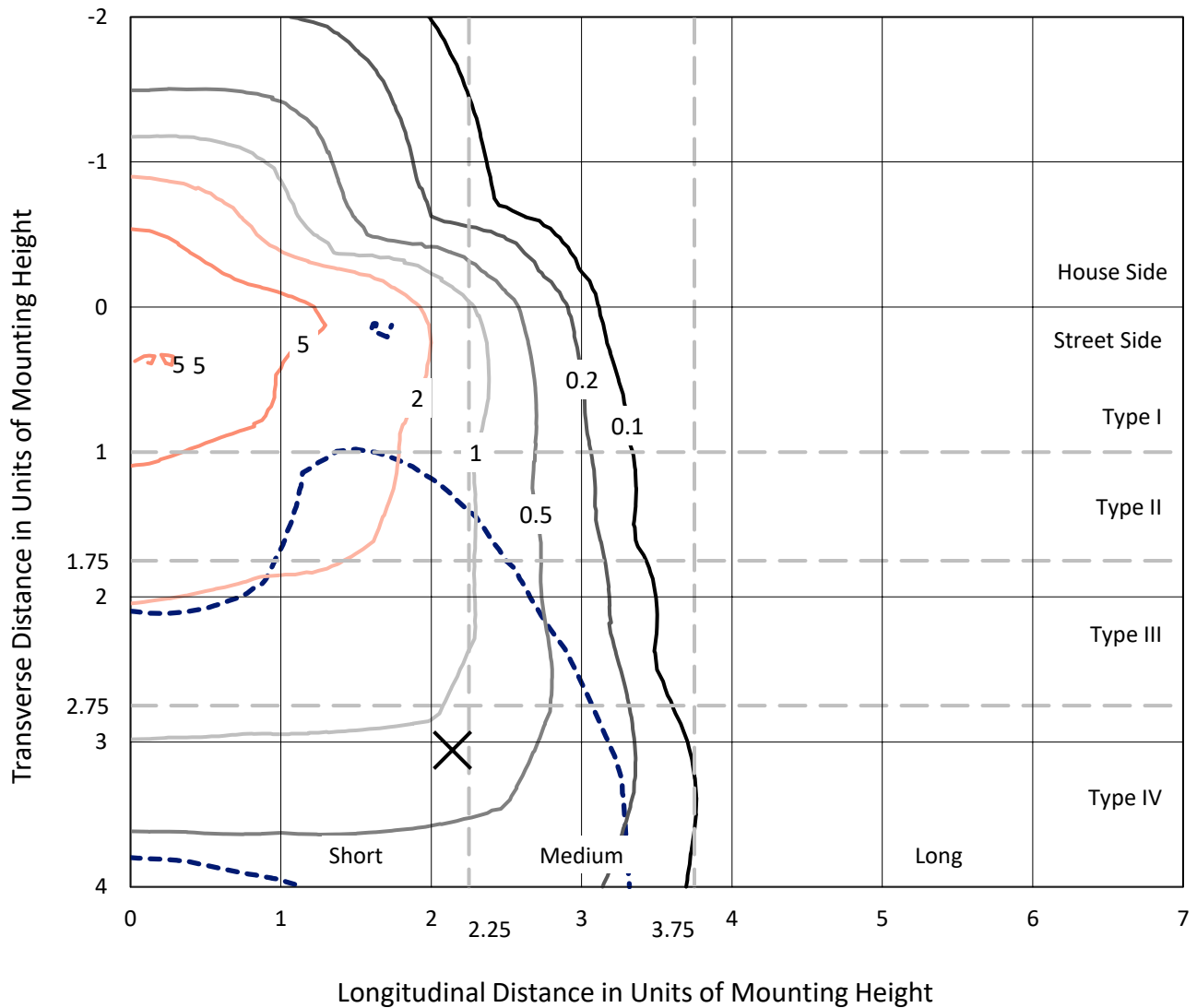
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

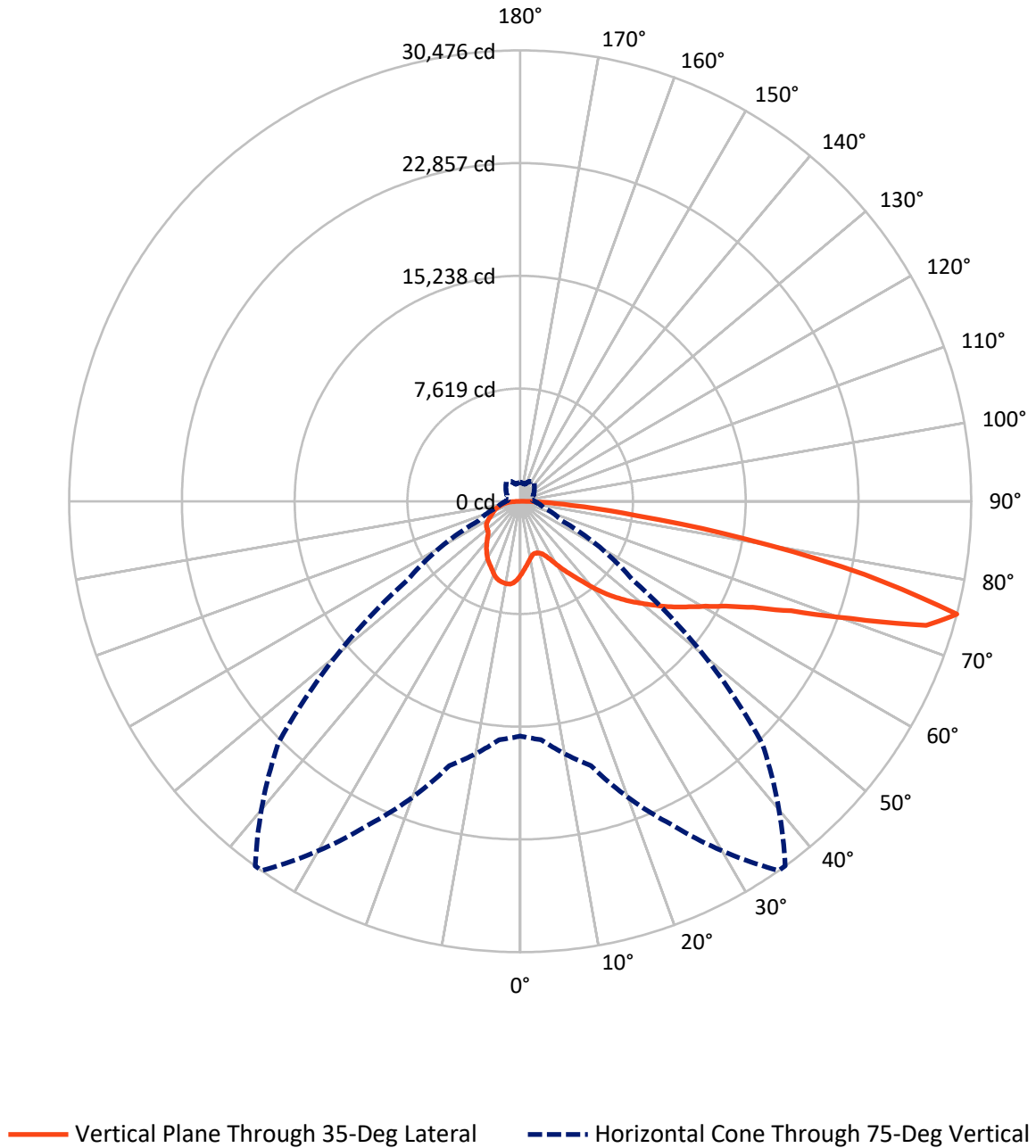
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	8898.1	0.0	8898.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28492.9	0.0	28492.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	37391.0	0.0	37391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.8	1.3
10°-20°	1360.7	3.6
20°-30°	2285.0	6.1
30°-40°	3551.3	9.5
40°-50°	5271.0	14.1
50°-60°	7277.0	19.5
60°-70°	8828.6	23.6
70°-80°	7296.2	19.5
80°-90°	1049.4	2.8
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°	37391.0	100.0
0°-180°	37391.0	100.0

Coefficient of Utilization



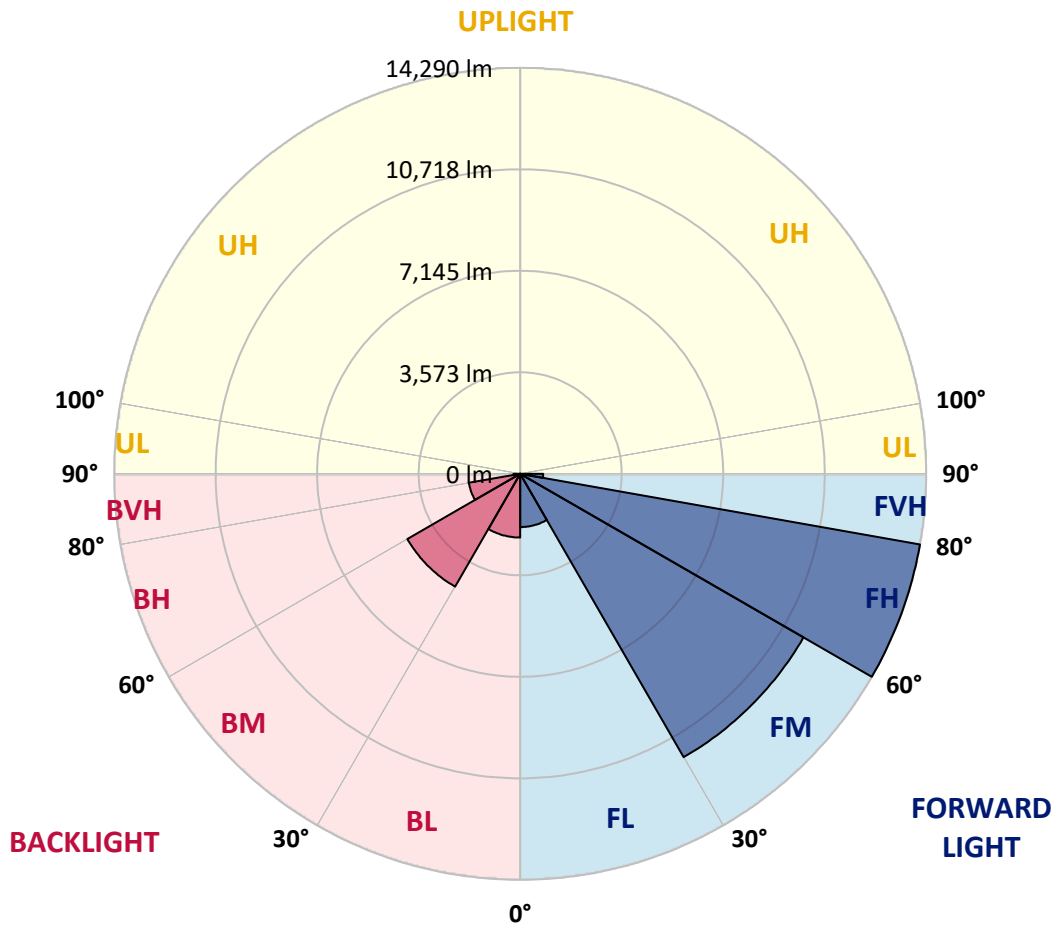
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1875.1	5.0			
FM (30°-60°)	11514.4	30.8			
FH (60°-80°)	14290.3	38.2			G5
FVH (80°-90°)	813.1	2.2			G5
BL (0°-30°)	2242.4	6.0	B3/2500		
BM (30°-60°)	4584.9	12.3	B3/5000		
BH (60°-80°)	1834.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	236.3	0.6			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°	36°	45°	55°	65°	75°
0°	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6
2.5°	4594.5	4622.8	4634.9	4628.9	4659.2	4655.1	4697.6	4750.1	4822.9	4893.7
5°	4240.8	4271.1	4297.4	4321.6	4380.2	4398.4	4465.1	4566.2	4699.6	4835.0
7.5°	3911.3	3937.6	3978.0	4022.5	4121.5	4139.7	4250.9	4408.5	4594.5	4792.6
10°	3642.5	3668.7	3711.2	3761.7	3885.0	3907.3	4048.7	4259.0	4501.5	4752.2
12.5°	3527.2	3535.3	3559.6	3610.1	3717.2	3731.4	3887.0	4127.6	4410.6	4721.9
15°	3521.2	3537.3	3539.4	3565.6	3654.6	3660.6	3804.2	4042.7	4354.0	4715.8
17.5°	3581.8	3593.9	3575.8	3591.9	3666.7	3676.8	3790.0	4002.3	4335.8	4742.1
20°	3743.5	3753.6	3699.1	3676.8	3731.4	3739.5	3850.7	4028.5	4354.0	4796.6
22.5°	4087.1	4093.2	3959.8	3868.8	3872.9	3876.9	3974.0	4135.7	4424.7	4895.7
25°	4622.8	4618.8	4406.5	4230.7	4129.6	4107.4	4172.0	4309.5	4544.0	5027.1
27.5°	5249.4	5219.1	5006.9	4744.1	4523.8	4491.4	4477.3	4535.9	4713.8	5200.9
30°	5956.9	5928.6	5700.2	5356.6	5051.3	4998.8	4865.4	4835.0	4966.4	5437.4
32.5°	6733.1	6714.9	6442.0	6025.6	5617.3	5556.7	5332.3	5251.4	5354.5	5795.2
35°	7384.0	7367.8	7141.4	6712.9	6213.6	6138.8	5910.4	5819.4	5872.0	6254.0
37.5°	7972.2	7964.1	7770.0	7432.5	6917.0	6826.1	6569.4	6539.0	6528.9	6858.4
40°	8517.9	8497.7	8295.6	8117.7	7735.7	7652.8	7426.4	7400.1	7323.3	7602.3
42.5°	9122.3	9069.8	8776.7	8693.8	8590.7	8522.0	8386.5	8390.6	8220.8	8441.1
45°	9615.5	9585.2	9284.0	9235.5	9346.7	9318.4	9435.6	9465.9	9136.5	9320.4
47.5°	10145.1	10116.8	9862.1	9827.8	10128.9	10137.0	10551.4	10561.5	10029.9	10234.0
50°	10798.0	10757.6	10504.9	10547.4	10884.9	10915.2	11673.2	11604.5	10852.6	11161.8
52.5°	11228.5	11252.8	11198.2	11267.0	11727.8	11756.1	12776.9	12601.0	11667.2	12077.5
55°	11545.9	11594.4	11764.2	11921.9	12617.2	12645.5	13817.9	13549.0	12342.3	12926.5
57.5°	11954.2	11885.5	12202.8	12510.1	13462.1	13536.9	14830.6	14462.7	12940.6	13658.2
60°	12540.4	12491.9	12738.5	13193.3	14408.1	14527.4	15901.9	15285.4	13379.3	14238.3
62.5°	13728.9	13607.7	13646.1	14048.3	15600.7	15758.4	17110.6	16003.0	13597.6	14464.7
65°	15505.7	15297.5	15103.5	15382.4	17280.4	17436.1	18475.0	16566.9	13516.7	14026.1
67.5°	17743.3	17537.1	17298.6	17561.4	19754.6	19877.9	20158.8	16884.3	12880.0	12336.2
70°	19588.8	19512.0	19797.0	20878.4	23706.3	23710.3	22317.6	16621.5	11135.6	8746.3
72.5°	19344.2	19297.7	20799.6	24142.9	28686.9	28579.7	24361.2	14632.5	7501.2	3945.7
75°	15869.5	16170.7	18497.3	24084.3	30475.7	30461.6	23110.0	9302.2	3102.8	1635.3
77.5°	8509.8	8986.9	12008.8	17781.7	23791.2	24149.0	16247.5	3254.4	1332.1	1047.1
80°	2775.3	3191.7	4786.5	9053.6	15459.2	15392.5	6963.5	1277.5	911.6	741.8
82.5°	1178.4	1227.0	2138.6	4275.1	7933.8	7810.5	2217.4	733.7	640.8	507.4
85°	460.9	515.4	944.0	1976.9	3436.3	3361.5	800.5	363.8	410.3	331.5
87.5°	151.6	183.9	337.6	677.1	1069.3	1030.9	196.1	125.3	177.9	151.6
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°
4982.6	0°	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6	4982.6
4996.8	2.5°	5025.1	5057.4	5095.8	5152.4	5200.9	5241.3	5283.8	5310.1	5320.2	5350.5
5004.8	5°	5061.4	5132.2	5227.2	5320.2	5411.1	5465.7	5514.2	5538.5	5560.7	5576.9
5027.1	7.5°	5122.1	5213.0	5362.6	5483.9	5560.7	5605.2	5637.5	5629.4	5637.5	5641.6
5051.3	10°	5174.6	5302.0	5479.9	5595.1	5653.7	5655.7	5647.6	5619.3	5605.2	5607.2
5087.7	12.5°	5237.3	5378.8	5570.8	5667.8	5684.0	5639.5	5605.2	5556.7	5538.5	5530.4
5142.3	15°	5322.2	5483.9	5669.9	5706.2	5665.8	5609.2	5550.6	5471.8	5431.3	5399.0
5235.3	17.5°	5425.3	5603.2	5746.7	5720.4	5633.5	5540.5	5445.5	5326.2	5243.4	5209.0
5362.6	20°	5568.8	5728.5	5805.3	5690.1	5558.7	5417.2	5255.5	5109.9	5033.1	4998.8
5524.3	22.5°	5742.6	5896.2	5861.9	5637.5	5451.6	5225.2	5023.0	4915.9	4877.5	4853.2
5732.5	25°	5950.8	6082.2	5902.3	5560.7	5275.7	4970.5	4814.8	4780.5	4762.3	4744.1
5987.2	27.5°	6221.7	6292.4	5932.6	5447.5	5000.8	4699.6	4643.0	4649.1	4643.0	4612.7
6340.9	30°	6579.5	6565.3	5960.9	5263.6	4685.5	4455.0	4459.1	4485.4	4489.4	4469.2
6834.2	32.5°	7050.4	6906.9	5975.1	5025.1	4384.3	4240.8	4244.8	4273.1	4293.3	4259.0
7479.0	35°	7620.5	7305.1	5952.8	4725.9	4151.8	4036.6	4006.3	4014.4	4020.4	3988.1
8261.2	37.5°	8285.5	7751.8	5853.8	4394.4	3959.8	3836.5	3771.8	3717.2	3684.9	3654.6
9146.6	40°	9015.2	8239.0	5671.9	4071.0	3745.5	3624.3	3527.2	3424.2	3315.0	3274.6
10084.5	42.5°	9779.2	8740.3	5451.6	3761.7	3498.9	3399.9	3296.8	3147.2	2983.5	2900.6
11058.8	45°	10571.6	9253.7	5235.3	3456.5	3246.3	3203.8	3084.6	2904.7	2726.8	2621.7
12035.1	47.5°	11347.8	9738.8	4917.9	3149.2	3009.8	3056.3	2963.3	2797.5	2599.4	2433.7
13003.3	50°	12089.6	10193.6	4398.4	2838.0	2817.7	3011.8	2922.9	2684.3	2457.9	2245.7
13953.3	52.5°	12825.4	10561.5	3733.4	2555.0	2714.7	2999.7	2870.3	2607.5	2330.6	2108.3
14846.7	55°	13450.0	10751.5	3092.7	2312.4	2565.1	2896.6	2807.6	2516.6	2150.7	1914.2
15459.2	57.5°	13805.8	10597.9	2559.0	2073.9	2358.9	2726.8	2700.5	2322.5	1936.4	1754.5
15578.5	60°	13652.1	9975.3	2122.4	1865.7	2162.8	2542.8	2514.5	2130.5	1772.7	1600.9
14939.7	62.5°	12805.2	8788.8	1776.8	1683.8	1985.0	2354.9	2328.6	1982.9	1647.4	1481.6
13243.8	65°	11099.2	7149.5	1507.9	1532.2	1805.1	2128.5	2166.9	1859.6	1548.3	1386.6
10246.2	67.5°	8465.4	5178.7	1297.7	1400.8	1629.2	1906.1	2017.3	1770.7	1465.5	1311.8
5928.6	70°	4824.9	2941.1	1119.8	1273.4	1473.6	1699.9	1902.1	1699.9	1376.5	1249.2
2221.5	72.5°	1829.3	1350.3	968.2	1146.1	1324.0	1526.1	1774.7	1588.8	1273.4	1178.4
1148.1	75°	976.3	822.7	814.6	996.5	1152.2	1356.3	1615.1	1479.6	1196.6	1245.1
794.4	77.5°	665.0	582.1	681.2	853.0	964.2	1168.3	1445.3	1313.9	1036.9	1032.9
549.8	80°	460.9	412.4	553.8	687.3	745.9	982.4	1261.3	1127.9	844.9	788.3
339.6	82.5°	276.9	268.8	414.4	513.4	527.6	758.0	1045.0	946.0	691.3	602.4
202.1	85°	151.6	159.7	264.8	301.2	307.2	529.6	818.6	731.7	531.6	446.7
72.8	87.5°	42.4	54.6	97.0	119.3	147.6	274.9	487.1	434.6	266.8	186.0
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>
4982.6
5348.5
5580.9
5647.6
5611.2
5526.3
5409.1
5211.0
4994.7
4857.3
4744.1
4618.8
4479.3
4275.1
4010.3
3674.8
3292.8
2910.7
2613.6
2415.5
2227.5
2084.0
1894.0
1730.3
1576.6
1455.4
1360.4
1287.6
1233.0
1162.3
1285.6
952.1
754.0
606.4
450.8
186.0
0.0

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