

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: P942499

Luminaire Tested: **GALN-SB6C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942499
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-SB6C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47488 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

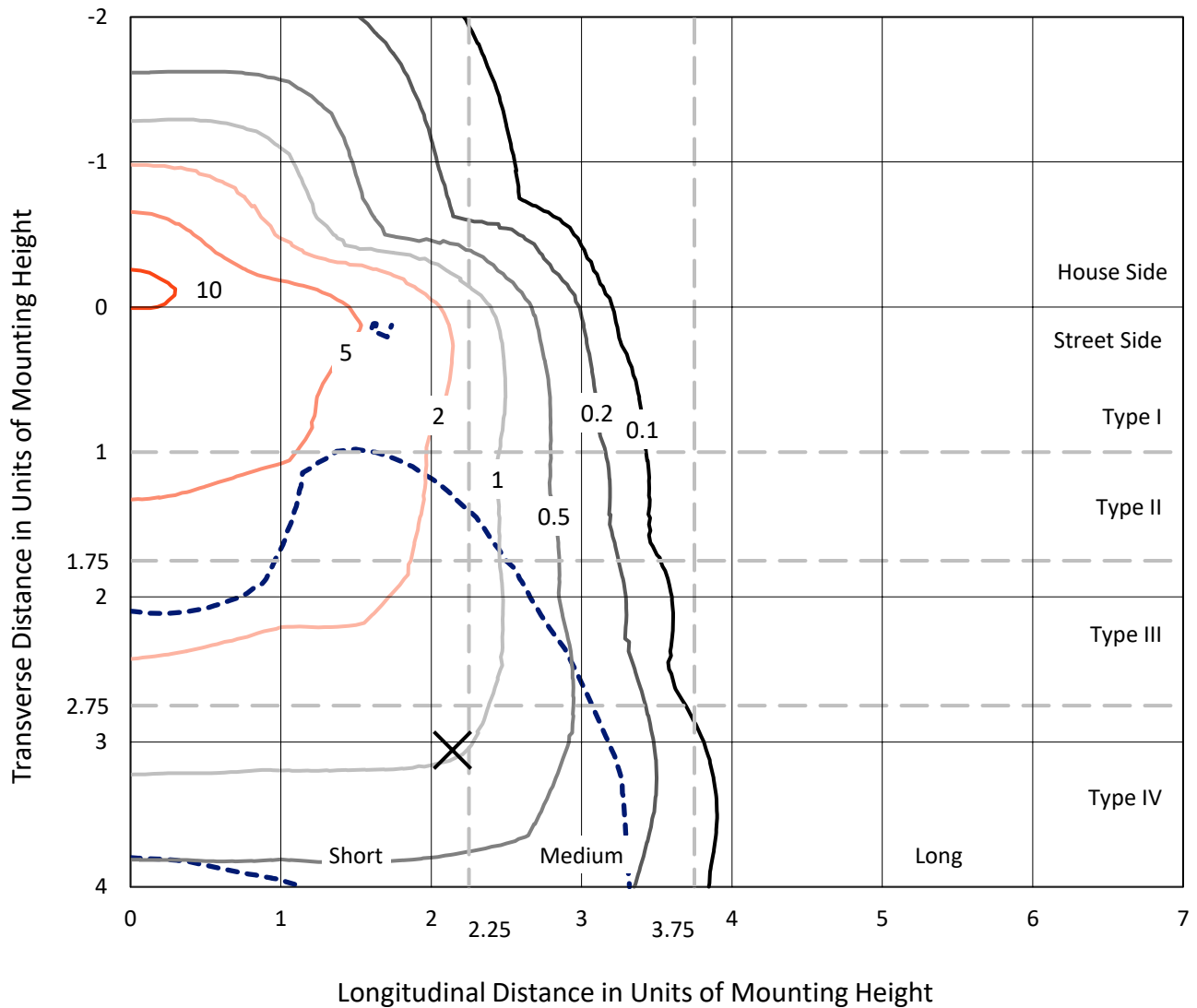
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

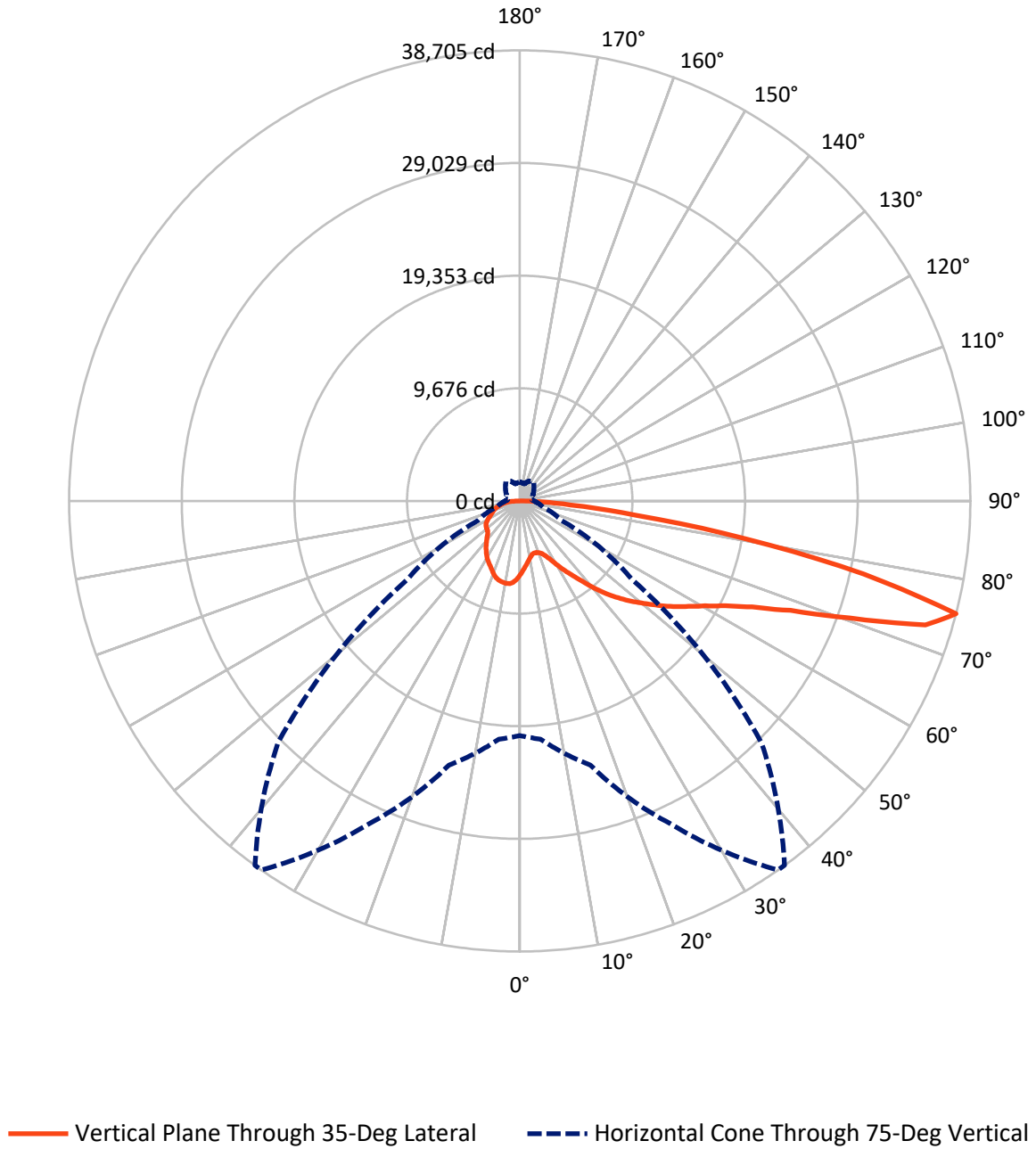
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	11300.9	0.0	11300.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	36187.1	0.0	36187.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	47488.0	0.0	47488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.1	1.3
10°-20°	1728.2	3.6
20°-30°	2902.1	6.1
30°-40°	4510.2	9.5
40°-50°	6694.4	14.1
50°-60°	9242.0	19.5
60°-70°	11212.7	23.6
70°-80°	9266.4	19.5
80°-90°	1332.8	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°	47488.0	100.0
0°-180°	47488.0	100.0

Coefficient of Utilization



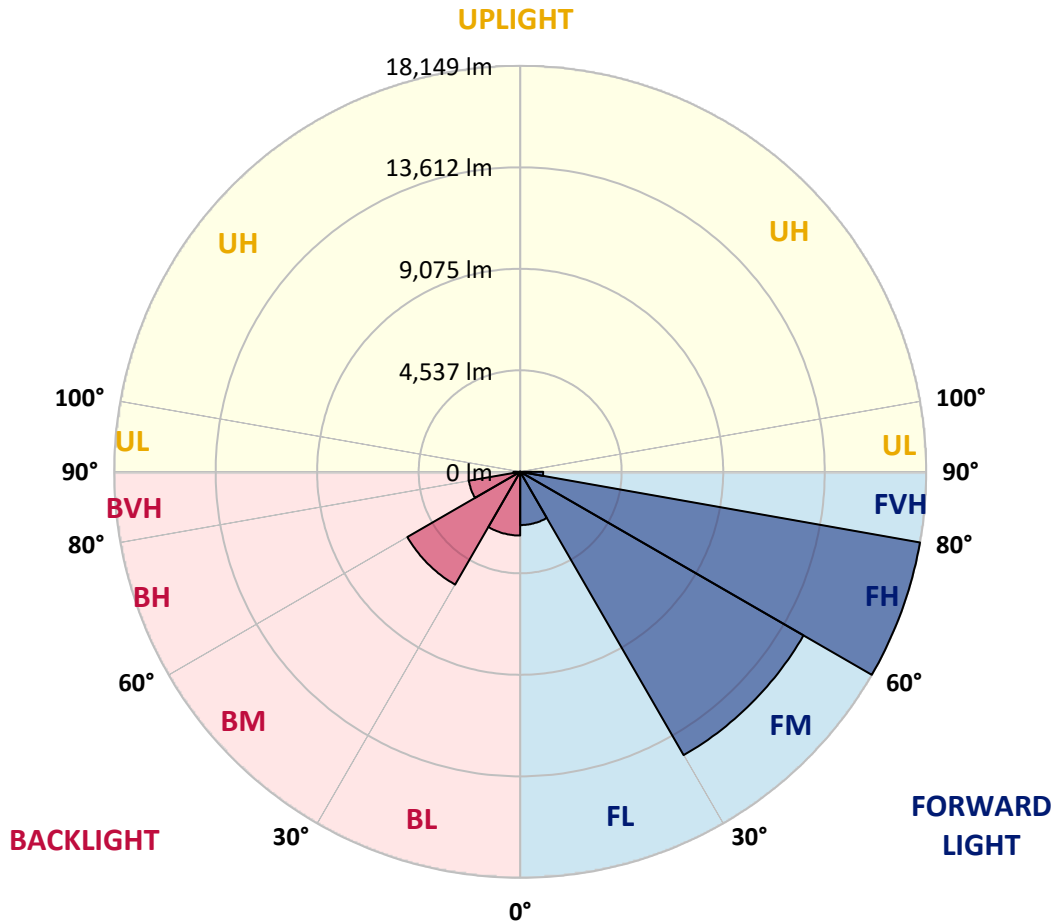
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2381.4	5.0			
FM (30°-60°)	14623.7	30.8			
FH (60°-80°)	18149.2	38.2			G5
FVH (80°-90°)	1032.7	2.2			G5
BL (0°-30°)	2848.0	6.0	B4/5000		
BM (30°-60°)	5822.9	12.3	B4/8500		
BH (60°-80°)	2329.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	300.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1
2.5°	5835.2	5871.1	5886.5	5878.8	5917.3	5912.2	5966.1	6032.9	6125.3	6215.1
5°	5385.9	5424.5	5457.8	5488.6	5563.1	5586.2	5670.9	5799.3	5968.7	6140.7
7.5°	4967.5	5000.9	5052.2	5108.7	5234.5	5257.6	5398.8	5599.0	5835.2	6086.8
10°	4626.1	4659.4	4713.3	4777.5	4934.1	4962.4	5142.1	5409.0	5717.1	6035.4
12.5°	4479.7	4490.0	4520.8	4585.0	4721.0	4739.0	4936.7	5242.2	5601.6	5996.9
15°	4472.0	4492.6	4495.1	4528.5	4641.5	4649.2	4831.4	5134.4	5529.7	5989.2
17.5°	4549.0	4564.4	4541.3	4561.9	4656.9	4669.7	4813.5	5083.0	5506.6	6022.6
20°	4754.4	4767.3	4697.9	4669.7	4739.0	4749.3	4890.5	5116.4	5529.7	6091.9
22.5°	5190.8	5198.5	5029.1	4913.6	4918.7	4923.9	5047.1	5252.4	5619.6	6217.7
25°	5871.1	5866.0	5596.5	5373.1	5244.7	5216.5	5298.7	5473.2	5771.0	6384.6
27.5°	6667.0	6628.5	6358.9	6025.2	5745.3	5704.3	5686.3	5760.8	5986.7	6605.4
30°	7565.5	7529.5	7239.4	6803.0	6415.4	6348.6	6179.2	6140.7	6307.6	6905.7
32.5°	8551.3	8528.2	8181.6	7652.8	7134.2	7057.2	6772.2	6669.5	6800.5	7360.1
35°	9377.9	9357.4	9069.8	8525.6	7891.5	7796.5	7506.4	7390.9	7457.7	7942.9
37.5°	10125.0	10114.7	9868.2	9439.5	8784.9	8669.4	8343.3	8304.8	8292.0	8710.4
40°	10818.1	10792.4	10535.7	10309.8	9824.6	9719.3	9431.8	9398.4	9300.9	9655.2
42.5°	11585.7	11518.9	11146.7	11041.4	10910.5	10823.2	10651.2	10656.4	10440.7	10720.5
45°	12212.1	12173.6	11791.1	11729.4	11870.6	11834.7	11983.6	12022.1	11603.7	11837.3
47.5°	12884.7	12848.7	12525.3	12481.6	12864.1	12874.4	13400.7	13413.5	12738.3	12997.6
50°	13713.9	13662.5	13341.6	13395.5	13824.3	13862.8	14825.5	14738.2	13783.2	14176.0
52.5°	14260.7	14291.5	14222.2	14309.5	14894.8	14930.7	16227.1	16003.8	14817.8	15338.9
55°	14663.7	14725.3	14941.0	15141.2	16024.3	16060.3	17549.2	17207.8	15675.2	16417.1
57.5°	15182.3	15095.0	15498.1	15888.3	17097.4	17192.4	18835.4	18368.2	16435.1	17346.4
60°	15926.8	15865.2	16178.4	16756.0	18298.9	18450.3	20196.0	19413.0	16992.2	18083.2
62.5°	17436.3	17282.3	17331.0	17841.9	19813.5	20013.7	21731.2	20324.4	17269.4	18370.7
65°	19692.8	19428.4	19182.0	19536.2	21946.8	22144.5	23464.0	21040.6	17166.7	17813.7
67.5°	22534.7	22272.8	21969.9	22303.7	25089.0	25245.6	25602.5	21443.6	16358.1	15667.5
70°	24878.5	24781.0	25143.0	26516.4	30107.9	30113.0	28344.2	21109.9	14142.6	11108.2
72.5°	24567.9	24508.9	26416.3	30662.4	36433.4	36297.3	30939.6	18583.8	9526.8	5011.1
75°	20154.9	20537.4	23492.3	30587.9	38705.4	38687.4	29350.6	11814.2	3940.6	2076.8
77.5°	10807.8	11413.7	15251.6	22583.5	30215.7	30670.1	20635.0	4133.2	1691.8	1329.8
80°	3524.7	4053.6	6079.1	11498.4	19633.8	19549.1	8843.9	1622.5	1157.8	942.2
82.5°	1496.7	1558.3	2716.1	5429.6	10076.2	9919.6	2816.2	931.9	813.8	644.4
85°	585.3	654.6	1198.9	2510.7	4364.2	4269.2	1016.6	462.1	521.1	421.0
87.5°	192.5	233.6	428.7	860.0	1358.0	1309.3	249.0	159.2	225.9	192.5
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°
6328.1	0°	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1	6328.1
6346.1	2.5°	6382.0	6423.1	6471.9	6543.7	6605.4	6656.7	6710.6	6744.0	6756.8	6795.3
6356.3	5°	6428.2	6518.1	6638.7	6756.8	6872.3	6941.7	7003.3	7034.1	7062.3	7082.8
6384.6	7.5°	6505.2	6620.8	6810.7	6964.8	7062.3	7118.8	7159.9	7149.6	7159.9	7165.0
6415.4	10°	6572.0	6733.7	6959.6	7106.0	7180.4	7183.0	7172.7	7136.8	7118.8	7121.4
6461.6	12.5°	6651.6	6831.3	7075.1	7198.4	7218.9	7162.4	7118.8	7057.2	7034.1	7023.8
6530.9	15°	6759.4	6964.8	7200.9	7247.1	7195.8	7123.9	7049.5	6949.4	6898.0	6856.9
6649.0	17.5°	6890.3	7116.2	7298.5	7265.1	7154.7	7036.6	6916.0	6764.5	6659.3	6615.6
6810.7	20°	7072.6	7275.4	7372.9	7226.6	7059.7	6880.0	6674.7	6489.8	6392.3	6348.6
7016.1	22.5°	7293.4	7488.5	7444.8	7159.9	6923.7	6636.2	6379.4	6243.4	6194.6	6163.8
7280.5	25°	7557.8	7724.6	7496.2	7062.3	6700.3	6312.7	6115.0	6071.4	6048.3	6025.2
7604.0	27.5°	7901.8	7991.6	7534.7	6918.5	6351.2	5968.7	5896.8	5904.5	5896.8	5858.3
8053.2	30°	8356.2	8338.2	7570.6	6684.9	5950.7	5658.1	5663.2	5696.6	5701.7	5676.0
8679.6	32.5°	8954.3	8772.1	7588.6	6382.0	5568.2	5385.9	5391.1	5427.0	5452.7	5409.0
9498.6	35°	9678.3	9277.8	7560.3	6002.1	5273.0	5126.7	5088.1	5098.4	5106.1	5065.0
10492.1	37.5°	10522.9	9845.1	7434.6	5581.0	5029.1	4872.5	4790.4	4721.0	4680.0	4641.5
11616.5	40°	11449.6	10463.8	7203.5	5170.3	4757.0	4603.0	4479.7	4348.8	4210.2	4158.8
12807.7	42.5°	12420.0	11100.5	6923.7	4777.5	4443.8	4318.0	4187.1	3997.1	3789.2	3683.9
14045.0	45°	13426.3	11752.5	6649.0	4389.9	4122.9	4069.0	3917.5	3689.0	3463.1	3329.6
15285.0	47.5°	14412.1	12368.7	6245.9	3999.7	3822.5	3881.6	3763.5	3553.0	3301.4	3090.9
16514.7	50°	15354.3	12946.3	5586.2	3604.3	3578.6	3825.1	3712.1	3409.2	3121.7	2852.1
17721.2	52.5°	16288.8	13413.5	4741.6	3244.9	3447.7	3809.7	3645.4	3311.7	2960.0	2677.6
18855.9	55°	17082.0	13654.8	3927.8	2936.9	3257.8	3678.8	3565.8	3196.1	2731.5	2431.1
19633.8	57.5°	17533.8	13459.7	3250.0	2633.9	2995.9	3463.1	3429.8	2949.7	2459.4	2228.3
19785.3	60°	17338.7	12669.0	2695.5	2369.5	2746.9	3229.5	3193.6	2705.8	2251.4	2033.2
18974.0	62.5°	16263.1	11162.1	2256.6	2138.5	2521.0	2990.8	2957.4	2518.4	2092.3	1881.7
16820.2	65°	14096.4	9080.1	1915.1	1945.9	2292.5	2703.2	2752.0	2361.8	1966.5	1761.1
13013.0	67.5°	10751.3	6577.1	1648.1	1779.1	2069.1	2420.9	2562.0	2248.8	1861.2	1666.1
7529.5	70°	6127.9	3735.2	1422.2	1617.3	1871.5	2159.0	2415.7	2159.0	1748.2	1586.5
2821.3	72.5°	2323.3	1714.9	1229.7	1455.6	1681.5	1938.2	2254.0	2017.8	1617.3	1496.7
1458.2	75°	1239.9	1044.8	1034.6	1265.6	1463.3	1722.6	2051.2	1879.2	1519.8	1581.4
1008.9	77.5°	844.6	739.3	865.1	1083.3	1224.5	1483.8	1835.5	1668.7	1317.0	1311.8
698.3	80°	585.3	523.7	703.4	872.8	947.3	1247.6	1601.9	1432.5	1073.1	1001.2
431.3	82.5°	351.7	341.4	526.3	652.1	670.0	962.7	1327.2	1201.4	878.0	765.0
256.7	85°	192.5	202.8	336.3	382.5	390.2	672.6	1039.7	929.3	675.2	567.3
92.4	87.5°	53.9	69.3	123.2	151.5	187.4	349.1	618.7	551.9	338.9	236.2
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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<u>180°</u>
6328.1
6792.8
7088.0
7172.7
7126.5
7018.7
6869.8
6618.2
6343.5
6168.9
6025.2
5866.0
5688.9
5429.6
5093.3
4667.1
4181.9
3696.7
3319.4
3067.8
2829.0
2646.8
2405.4
2197.5
2002.4
1848.4
1727.7
1635.3
1566.0
1476.1
1632.7
1209.1
957.6
770.2
572.5
236.2
0.0

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