

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: P941815

Luminaire Tested: **GALN-SB5C-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

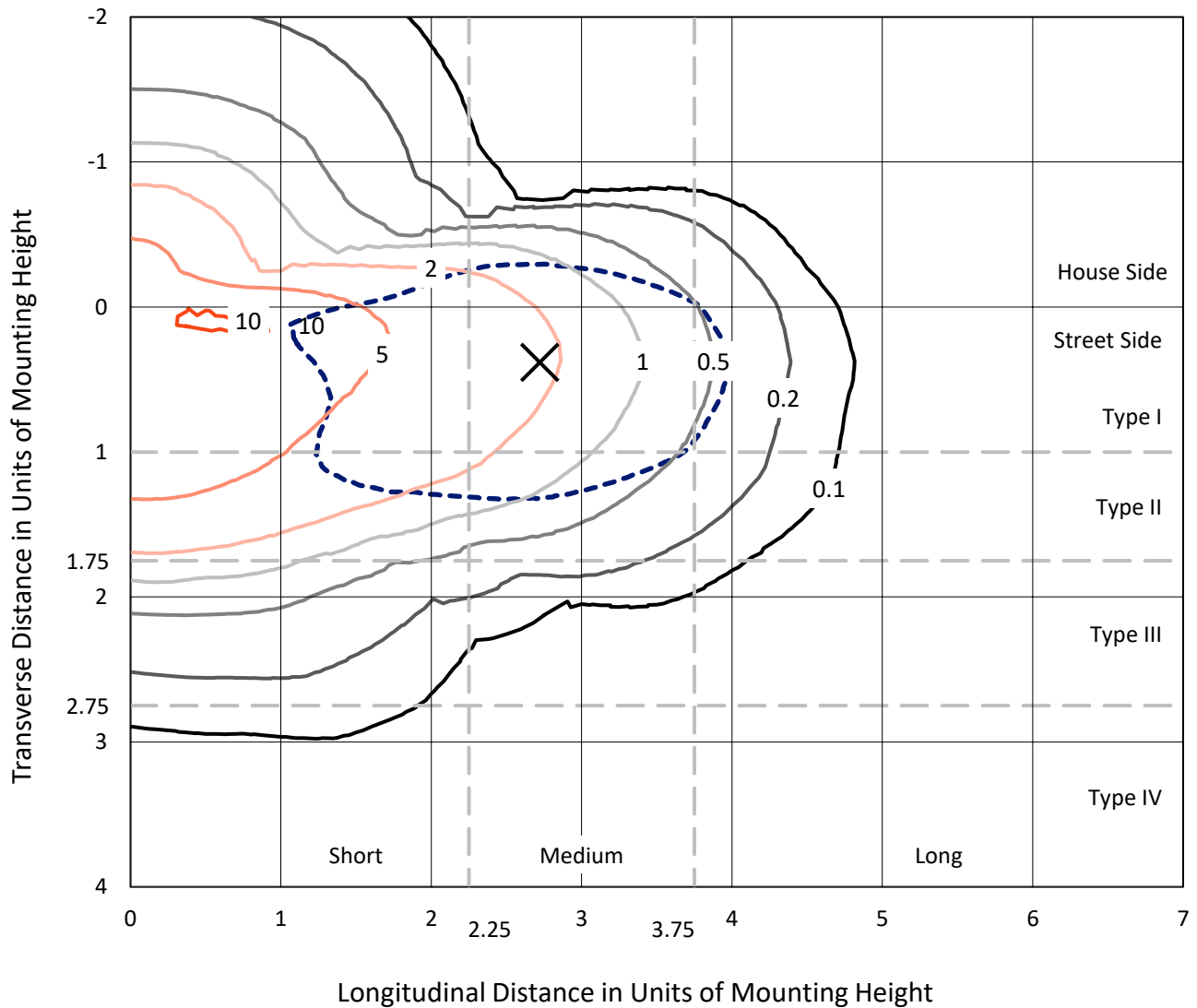
Lumens per Lamp: N/A  
Luminaire Lumens: 39657 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

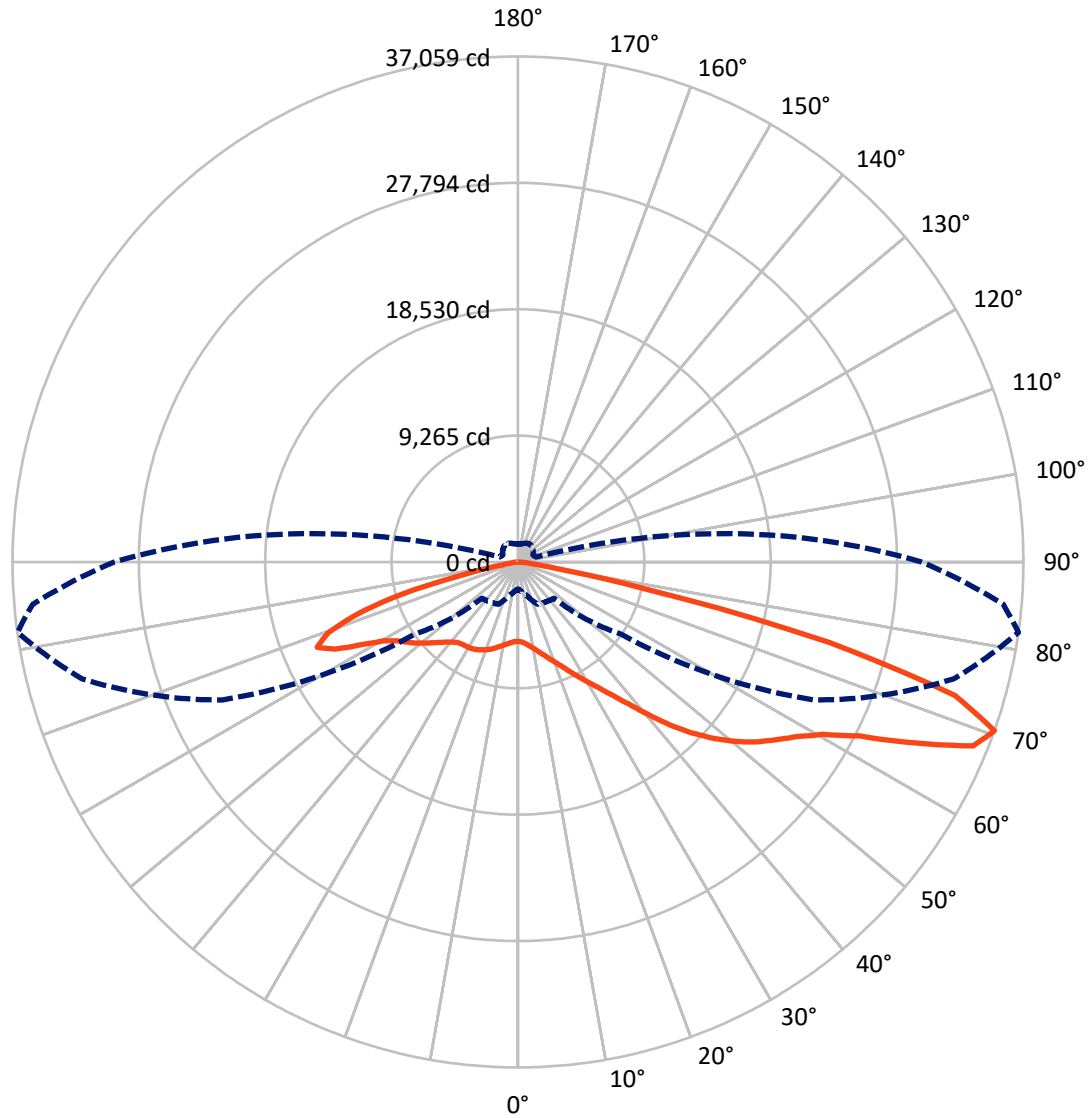
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9776.4	0.0	9776.4
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	29880.6	0.0	29880.6
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	39657.0	0.0	39657.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.0	1.4
10°-20°	1577.2	4.0
20°-30°	2638.5	6.7
30°-40°	4122.0	10.4
40°-50°	6564.8	16.6
50°-60°	9135.7	23.0
60°-70°	9556.4	24.1
70°-80°	4994.7	12.6
80°-90°	518.6	1.3
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°	39657.0	100.0
0°-180°	39657.0	100.0

**Coefficient of Utilization**



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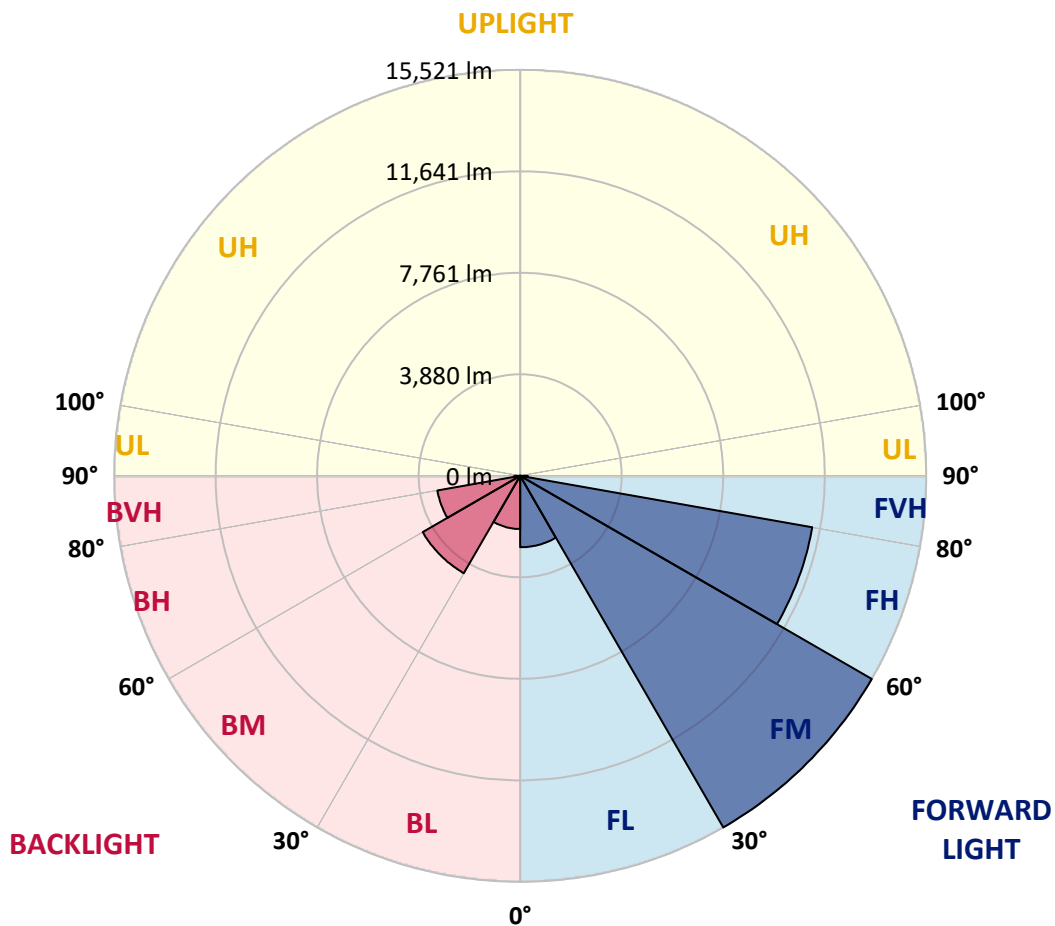
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.8	6.9			
FM (30°-60°)	15521.3	39.1			
FH (60°-80°)	11338.1	28.6			G4/12000
FVH (80°-90°)	290.3	0.7			G3/500
BL (0°-30°)	2033.9	5.1	B3/2500		
BM (30°-60°)	4301.2	10.8	B3/5000		
BH (60°-80°)	3213.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	228.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2
2.5°	5953.1	5986.8	5976.2	5965.7	5965.7	5951.0	5948.9	5927.8	5911.0	5883.7
5°	6028.9	6064.6	6060.4	6068.8	6096.2	6102.5	6108.8	6096.2	6062.5	6028.9
7.5°	5961.5	6001.5	6014.1	6064.6	6148.8	6224.6	6281.4	6304.5	6273.0	6224.6
10°	5734.2	5778.4	5822.6	5942.6	6092.0	6270.8	6422.4	6512.8	6506.5	6460.2
12.5°	5273.4	5319.7	5414.4	5648.0	5921.5	6237.2	6519.2	6708.5	6773.8	6740.1
15°	4905.1	4945.1	5016.7	5256.6	5612.2	6092.0	6554.9	6923.2	7089.4	7070.5
17.5°	4894.6	4911.5	4955.7	5069.3	5342.8	5864.7	6517.1	7133.6	7451.4	7449.3
20°	5079.8	5086.1	5111.4	5134.5	5290.2	5692.2	6420.3	7308.3	7857.5	7857.5
22.5°	5336.5	5332.3	5357.6	5336.5	5412.3	5677.4	6359.2	7461.9	8309.9	8343.6
25°	5721.6	5700.6	5694.3	5645.9	5660.6	5814.2	6426.6	7636.5	8846.5	8916.0
27.5°	6235.1	6201.4	6178.3	6066.7	6028.9	6096.2	6632.8	7847.0	9444.1	9564.1
30°	6904.2	6843.2	6809.6	6616.0	6479.2	6489.7	6944.2	8126.9	10069.1	10262.7
32.5°	7817.5	7722.8	7632.3	7314.6	7064.2	6982.1	7346.2	8514.0	10746.7	11056.1
35°	8840.2	8764.5	8667.7	8177.4	7792.3	7602.9	7889.1	9054.9	11540.0	12030.3
37.5°	9825.0	9759.8	9806.1	9145.3	8648.7	8373.1	8600.3	9780.8	12518.5	13242.4
40°	10843.5	10793.0	10799.3	10168.0	9589.3	9280.0	9463.1	10692.0	13640.1	14683.9
42.5°	11950.4	11912.5	11786.2	11226.5	10576.3	10288.0	10456.3	11744.2	14843.8	16325.2
45°	13189.8	13166.7	13048.8	12407.0	11662.1	11338.0	11565.3	12905.7	16053.8	17869.8
47.5°	14260.9	14279.9	14265.1	13724.3	12952.0	12476.5	12747.9	14117.8	17179.6	19321.8
50°	14776.5	14875.4	15020.6	14852.2	14372.4	13888.5	13941.1	15287.8	18252.8	20683.3
52.5°	14507.1	14694.4	15090.0	15359.4	15544.5	15443.5	15302.6	16449.4	19262.9	21912.2
55°	13503.4	13766.4	14422.9	15073.2	16018.0	16752.4	16937.6	17737.2	20247.7	22993.8
57.5°	11674.7	12101.9	12691.1	14006.3	15597.2	17385.8	18844.1	19523.8	21291.4	24149.1
60°	8539.3	9111.7	9844.0	11801.0	14124.1	17047.0	20466.5	22267.8	22775.0	25645.2
62.5°	5464.9	5818.4	6491.8	8335.2	11005.5	15311.0	20963.1	25697.8	25289.6	28098.9
65°	3741.5	3968.7	4585.3	5620.6	7114.7	11396.9	19633.2	28269.3	29283.6	31987.6
67.5°	2718.8	2891.3	3417.4	4324.4	4635.8	6744.3	15235.2	28151.5	33166.1	35994.2
70°	1982.3	2104.3	2546.2	3417.4	3566.8	3752.0	9229.5	23930.2	33081.9	37059.0
72.5°	1468.8	1553.0	1849.7	2651.4	2887.1	2533.6	4568.5	17392.1	28427.1	33519.6
75°	1062.7	1125.8	1344.7	2028.6	2310.5	1929.7	2279.0	10163.8	19828.9	23578.8
77.5°	812.3	860.7	1003.8	1485.6	1849.7	1447.8	1414.1	4675.8	9402.1	9448.4
80°	652.3	683.9	761.8	1045.8	1418.3	1083.7	921.7	1887.6	2971.3	2514.7
82.5°	479.8	532.4	643.9	734.4	1014.3	747.0	561.9	953.3	1130.0	972.2
85°	273.6	309.3	389.3	526.1	648.1	456.6	322.0	423.0	526.1	431.4
87.5°	96.8	126.3	136.8	206.2	282.0	189.4	124.2	122.1	172.6	128.4
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°
5814.2	0°	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2	5814.2
5877.3	2.5°	5856.3	5845.8	5803.7	5746.9	5688.0	5631.1	5612.2	5572.2	5544.9	5530.1
6014.1	5°	5974.1	5940.5	5841.6	5715.3	5582.7	5439.6	5338.6	5246.0	5178.7	5115.6
6201.4	7.5°	6142.5	6083.6	5913.1	5692.2	5456.5	5218.7	5041.9	4907.3	4816.8	4757.8
6420.3	10°	6338.2	6247.7	5986.8	5656.4	5292.3	4951.4	4743.1	4627.4	4570.6	4539.0
6670.7	12.5°	6563.3	6435.0	6062.5	5574.3	5041.9	4652.6	4509.5	4475.9	4478.0	4480.1
6986.3	15°	6841.1	6662.2	6123.5	5395.5	4715.8	4423.3	4398.0	4452.7	4509.5	4536.9
7344.0	17.5°	7154.7	6902.1	6134.1	5100.9	4395.9	4276.0	4355.9	4473.8	4560.0	4597.9
7743.9	20°	7491.3	7146.2	6058.3	4684.2	4132.9	4156.0	4299.1	4450.6	4545.3	4593.7
8200.5	22.5°	7876.4	7407.2	5877.3	4246.5	3918.2	4025.5	4193.9	4341.2	4440.1	4488.5
8737.1	25°	8316.2	7699.7	5593.3	3878.2	3733.0	3878.2	4046.6	4168.6	4248.6	4292.8
9336.8	27.5°	8804.4	8004.8	5214.5	3585.7	3571.0	3726.7	3865.6	3960.3	4002.4	4036.1
9974.4	30°	9294.7	8282.6	4755.7	3364.8	3430.0	3577.3	3676.2	3718.3	3730.9	3737.3
10685.7	32.5°	9825.0	8522.5	4273.9	3181.7	3295.4	3432.1	3491.1	3510.0	3451.1	3411.1
11548.5	35°	10466.8	8779.2	3802.5	3036.5	3162.8	3280.6	3299.6	3282.7	3213.3	3131.2
12630.1	37.5°	11260.2	9099.0	3425.8	2933.4	3038.6	3116.5	3093.3	3089.1	3095.4	2998.6
13930.5	40°	12232.4	9515.7	3150.2	2853.4	2937.6	2954.5	2889.2	2925.0	2956.6	2809.3
15357.3	42.5°	13311.9	10018.6	2975.5	2798.7	2853.4	2813.5	2712.5	2752.4	2748.2	2554.6
16790.3	45°	14412.4	10565.7	2914.5	2758.8	2775.6	2695.6	2584.1	2594.6	2506.2	2331.6
18164.4	47.5°	15506.7	11152.8	2952.3	2725.1	2678.8	2588.3	2502.0	2455.7	2325.3	2194.8
19481.7	50°	16579.9	11769.4	3091.2	2657.7	2546.2	2493.6	2430.5	2348.4	2209.5	2098.0
20727.5	52.5°	17575.2	12390.2	3247.0	2546.2	2380.0	2411.5	2371.6	2276.9	2140.1	2026.5
21905.9	55°	18517.9	13011.0	3308.0	2392.6	2224.3	2340.0	2316.8	2142.2	1978.1	1885.5
23139.0	57.5°	19544.8	13758.0	3240.6	2196.9	2098.0	2257.9	2169.5	1975.9	1881.3	1811.8
24744.6	60°	20967.4	14930.1	3095.4	1954.9	1978.1	2135.9	1984.4	1904.4	1801.3	1723.4
27151.9	62.5°	23330.5	17116.5	2861.9	1715.0	1837.1	1954.9	1896.0	1816.0	1710.8	1635.0
31268.0	65°	26823.7	20155.1	2422.1	1527.7	1679.2	1778.1	1801.3	1721.3	1611.9	1531.9
34874.8	67.5°	29769.7	22061.6	1832.9	1372.0	1517.2	1635.0	1700.3	1622.4	1506.7	1428.8
35718.6	70°	29607.7	20677.0	1399.4	1218.4	1374.1	1494.1	1578.2	1517.2	1393.1	1319.4
32444.3	72.5°	26297.6	17297.4	1132.1	1062.7	1228.9	1346.8	1447.8	1401.5	1275.2	1203.7
23768.2	75°	19319.7	12278.7	904.9	904.9	1047.9	1193.1	1304.7	1275.2	1159.5	1109.0
9978.6	77.5°	8143.7	5151.4	709.2	751.2	871.2	1024.8	1163.7	1174.2	1073.2	1136.3
2638.8	80°	2165.3	1420.4	540.8	591.3	683.9	845.9	1012.2	1008.0	898.5	839.6
980.6	82.5°	824.9	559.7	385.1	416.7	494.5	648.1	801.7	827.0	717.6	620.8
385.1	85°	317.8	239.9	237.8	250.4	288.3	429.3	606.0	627.1	540.8	458.7
107.3	87.5°	82.1	71.5	88.4	84.2	132.6	229.4	347.2	359.8	330.4	191.5
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>
5814.2
5547.0
5140.8
4770.5
4547.4
4484.3
4534.8
4606.3
4606.3
4501.1
4305.4
4048.7
3752.0
3423.7
3135.4
3005.0
2813.5
2552.5
2337.9
2194.8
2089.6
2028.6
1877.0
1805.5
1719.2
1635.0
1536.1
1430.9
1325.7
1203.7
1094.2
1031.1
780.7
620.8
473.5
273.6
0.0

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