

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: P955275

Luminaire Tested: **GALN-SB8B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47081 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

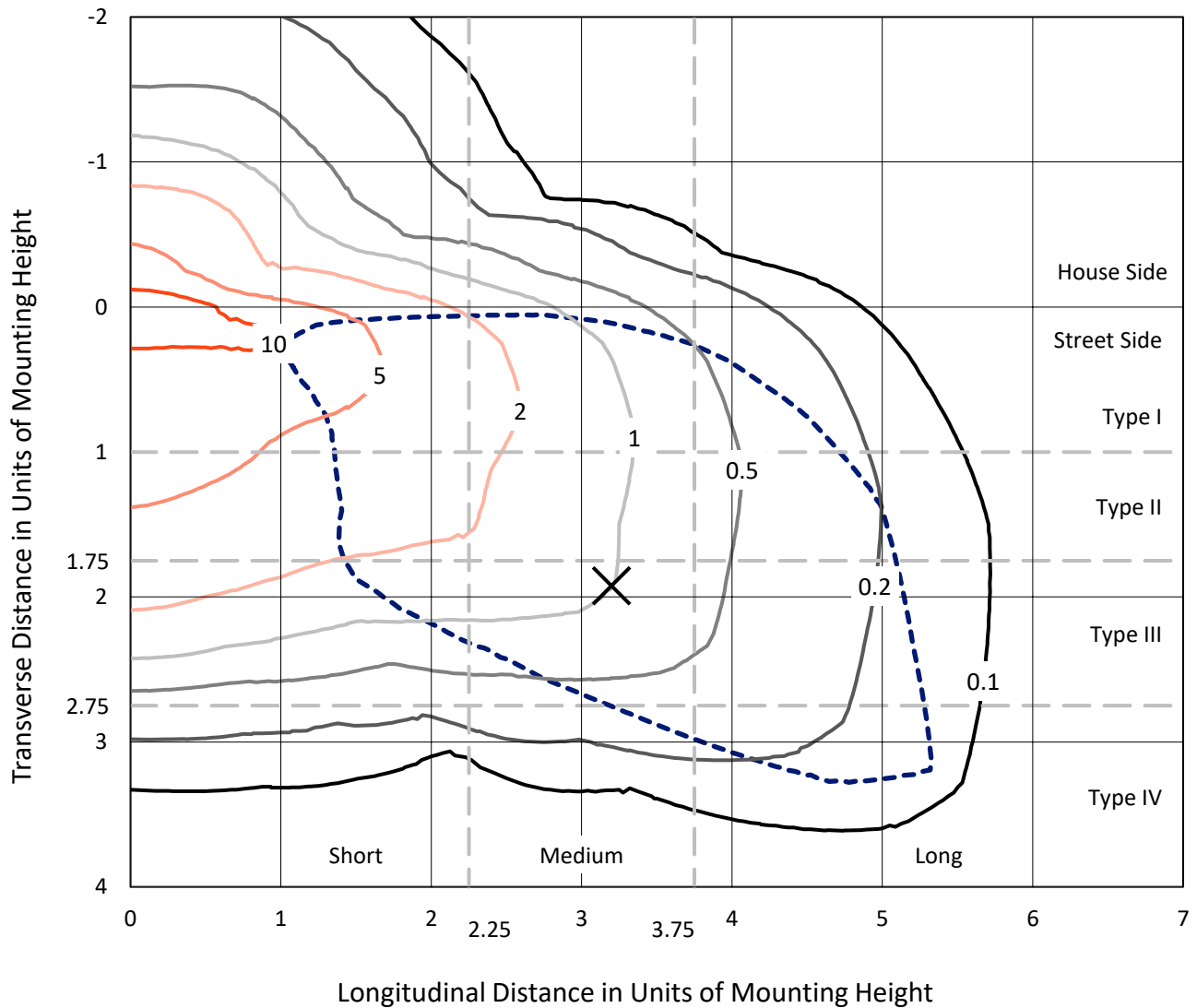
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

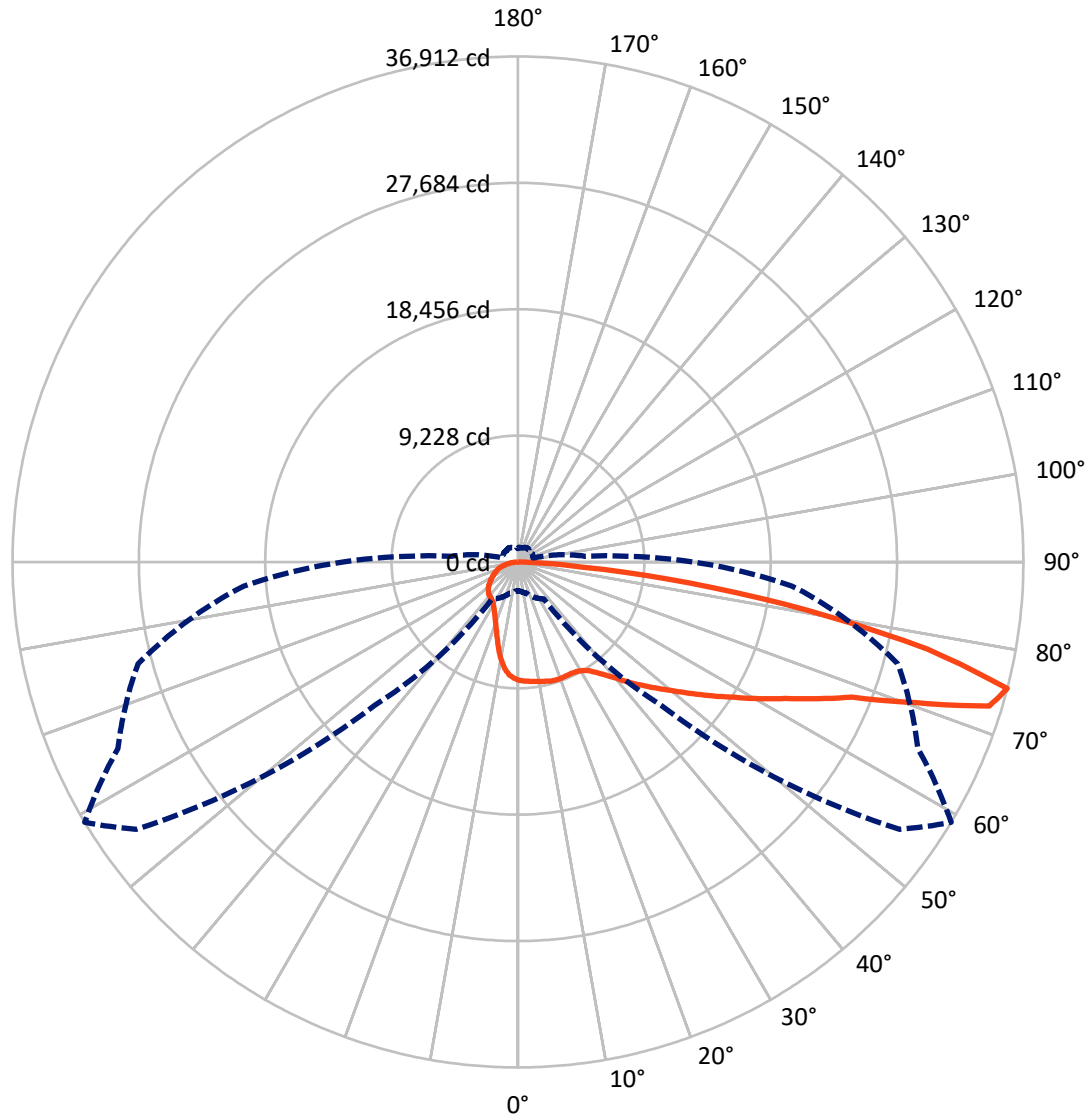
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8830.4	0.0	8830.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	38250.6	0.0	38250.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	47081.0	0.0	47081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.9	1.6
10°-20°	1980.6	4.2
20°-30°	3008.4	6.4
30°-40°	4471.9	9.5
40°-50°	6650.4	14.1
50°-60°	9027.2	19.2
60°-70°	11020.7	23.4
70°-80°	8648.9	18.4
80°-90°	1498.2	3.2
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°	47081.0	100.0
0°-180°	47081.0	100.0

Coefficient of Utilization



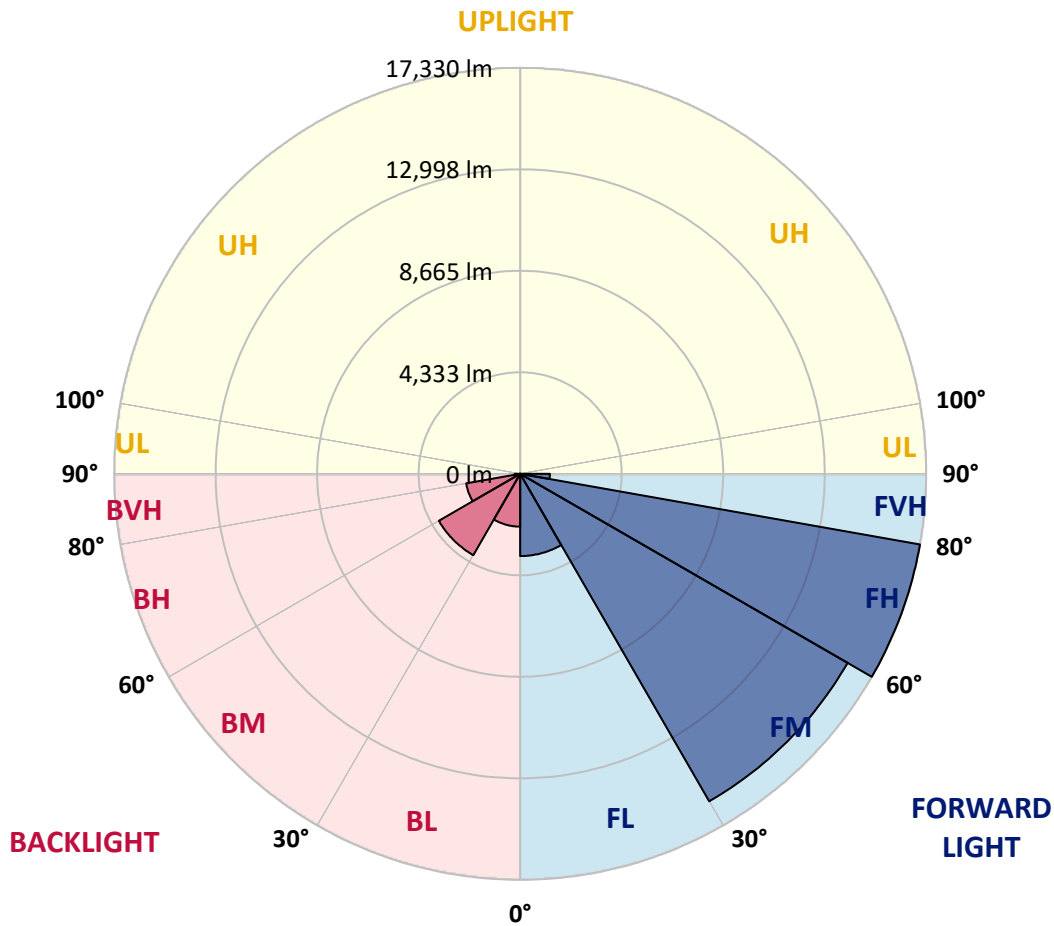
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3510.4	7.5			
FM (30°-60°)	16141.3	34.3			
FH (60°-80°)	17330.1	36.8			G5
FVH (80°-90°)	1268.9	2.7			G5
BL (0°-30°)	2253.4	4.8	B3/2500		
BM (30°-60°)	4008.1	8.5	B3/5000		
BH (60°-80°)	2339.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	229.3	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6
2.5°	8715.1	8684.7	8715.1	8702.4	8697.3	8687.2	8689.7	8707.5	8697.3	8710.0
5°	8656.8	8639.1	8669.5	8661.9	8694.8	8699.9	8732.8	8753.1	8765.7	8768.2
7.5°	8560.6	8542.8	8585.9	8621.4	8692.3	8712.5	8780.9	8813.8	8831.6	8862.0
10°	8208.5	8200.9	8307.3	8441.5	8608.7	8712.5	8816.4	8872.1	8899.9	8981.0
12.5°	7585.5	7595.6	7734.9	7993.2	8327.6	8661.9	8856.9	8937.9	8981.0	9082.3
15°	6990.3	6987.8	7139.7	7415.8	7884.3	8439.0	8877.2	9016.5	9089.9	9239.3
17.5°	6645.8	6635.7	6742.1	6952.3	7387.9	8097.1	8826.5	9059.5	9216.5	9404.0
20°	6582.5	6562.3	6618.0	6721.8	7030.8	7722.2	8694.8	9059.5	9317.8	9561.0
22.5°	6813.0	6780.1	6757.3	6744.6	6881.4	7413.2	8545.4	9029.1	9467.3	9786.4
25°	7276.5	7225.8	7109.3	6995.3	6954.8	7273.9	8413.7	9021.5	9690.2	10090.3
27.5°	8026.2	7962.8	7727.3	7453.8	7208.1	7344.9	8355.4	9067.1	9935.8	10412.0
30°	8955.7	8887.3	8591.0	8170.5	7729.8	7608.3	8428.9	9201.3	10249.9	10840.0
32.5°	9788.9	9712.9	9459.7	9031.7	8436.5	8064.2	8661.9	9457.1	10743.8	11435.2
35°	10528.5	10439.8	10211.9	9816.8	9302.7	8704.9	9082.3	9910.5	11445.3	12402.7
37.5°	11252.8	11149.0	10900.8	10482.9	10123.2	9558.5	9662.3	10493.0	12377.4	13577.9
40°	12063.3	11913.9	11612.5	11199.7	10850.1	10558.9	10424.6	11207.2	13324.6	14889.8
42.5°	12848.4	12706.6	12347.0	11994.9	11556.8	11473.2	11308.6	12043.0	14360.5	16330.9
45°	13694.4	13524.7	13089.1	12643.3	12367.2	12081.0	12164.6	12878.8	15376.1	17799.9
47.5°	14487.1	14297.2	13783.0	13286.6	13134.6	12592.6	12949.8	13798.2	16432.2	19289.1
50°	14915.1	14727.7	14299.7	13851.4	13732.4	13223.3	13800.7	14808.8	17539.0	20773.3
52.5°	15272.3	15069.6	14509.9	14261.7	14226.2	13909.7	14849.3	15963.7	18645.8	22085.2
55°	15652.2	15426.7	14712.5	14489.6	14651.7	14679.6	16092.9	17273.1	19815.9	23364.3
57.5°	16090.3	15804.1	14907.5	14682.1	15067.1	15581.2	17521.3	18630.6	20965.8	24549.6
60°	16503.2	16214.4	15282.4	14988.6	15515.4	16627.3	19160.0	20274.4	22267.6	25605.7
62.5°	16584.2	16346.1	15581.2	15578.7	16123.2	17848.0	21100.0	21933.3	23404.8	26649.2
65°	15181.1	15031.6	14578.3	15555.9	16994.5	19605.7	23260.4	24055.7	24851.0	27561.0
67.5°	11554.2	11574.5	11541.6	13428.4	16290.4	22130.8	26388.3	26327.5	26636.5	28584.2
70°	5283.2	5402.3	6177.3	9269.7	13051.1	22422.1	31560.1	30772.4	28878.0	29908.8
72.5°	2854.4	2945.5	3262.1	4490.5	7846.3	19935.0	35425.0	35984.8	31859.0	30800.3
75°	2094.6	2145.2	2365.6	2854.4	3295.1	14816.4	34039.6	36911.7	32231.3	28721.0
77.5°	1567.7	1590.5	1770.4	2261.7	1686.8	7810.9	27198.8	30569.8	27591.4	23597.3
80°	1137.2	1162.5	1296.7	1696.9	1182.8	2856.9	18676.2	21457.1	18896.6	15041.8
82.5°	785.1	795.3	853.5	1154.9	825.7	1109.3	10596.9	12582.5	10548.7	5278.2
85°	473.6	486.3	511.6	673.7	468.6	526.8	4574.1	4731.1	3153.2	1261.3
87.5°	195.0	207.7	227.9	283.7	184.9	146.9	754.7	947.2	590.1	369.8
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°
8641.6	0°	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6	8641.6
8666.9	2.5°	8654.3	8636.5	8588.4	8522.6	8461.8	8385.8	8352.9	8325.0	8299.7	8251.6
8735.3	5°	8707.5	8659.3	8530.2	8363.0	8173.1	7965.4	7762.8	7623.5	7504.4	7415.8
8813.8	7.5°	8788.5	8697.3	8461.8	8119.9	7684.2	7238.5	6835.8	6549.6	6334.3	6255.8
8925.3	10°	8872.1	8763.2	8352.9	7750.1	6997.9	6311.5	5777.1	5483.3	5311.1	5255.4
9057.0	12.5°	8970.9	8811.3	8183.2	7236.0	6230.5	5478.3	5012.2	4840.0	4751.4	4721.0
9219.1	15°	9115.2	8851.8	7927.4	6592.6	5498.5	4870.4	4569.0	4450.0	4404.4	4401.9
9386.2	17.5°	9224.1	8859.4	7529.8	5903.8	4936.3	4503.2	4255.0	4209.4	4239.8	4285.3
9550.9	20°	9345.7	8791.0	7008.0	5275.6	4541.2	4181.5	4077.7	4108.1	4181.5	4247.4
9768.7	22.5°	9431.8	8666.9	6377.4	4786.8	4199.2	3996.6	3991.6	4054.9	4095.4	4128.3
10024.5	25°	9507.8	8456.7	5708.7	4376.5	3918.1	3885.2	3940.9	3920.6	3892.8	3920.6
10280.3	27.5°	9563.5	8124.9	5111.0	4016.9	3720.6	3809.2	3776.3	3730.7	3728.2	3743.3
10581.7	30°	9545.8	7681.7	4619.7	3675.0	3581.3	3667.4	3588.9	3581.3	3573.7	3581.3
11035.0	32.5°	9545.8	7177.7	4242.3	3439.4	3492.6	3459.7	3452.1	3434.4	3404.0	3401.4
11650.5	35°	9599.0	6673.7	3918.1	3312.8	3419.2	3340.6	3345.7	3302.7	3239.3	3208.9
12466.0	37.5°	9707.9	6268.5	3596.5	3252.0	3290.0	3287.5	3267.2	3193.7	3082.3	2986.1
13484.2	40°	9971.3	6149.4	3376.1	3224.1	3229.2	3259.6	3206.4	3064.6	2811.3	2654.3
14517.5	42.5°	10384.1	6349.5	3328.0	3155.8	3188.7	3219.1	3115.2	2786.0	2606.2	2512.5
15601.5	45°	10908.4	6699.0	3431.8	3057.0	3092.4	3145.6	2836.6	2679.6	2598.6	2601.1
16675.4	47.5°	11572.0	7066.3	3624.3	2970.9	2953.1	2983.5	2651.7	2555.5	2444.1	2471.9
17706.2	50°	12339.4	7438.6	3806.7	2854.4	2798.6	2699.9	2532.7	2441.5	2299.7	2233.9
18701.5	52.5°	13170.1	7798.2	3880.1	2712.5	2631.5	2517.5	2451.7	2340.2	2168.0	2059.1
19641.2	55°	13957.8	8124.9	3799.1	2542.8	2464.3	2375.7	2365.6	2297.2	2112.3	1960.3
20477.0	57.5°	14702.4	8398.5	3596.5	2370.6	2294.6	2241.4	2309.8	2276.9	2043.9	1848.9
21267.2	60°	15333.0	8585.9	3302.7	2195.9	2142.7	2114.8	2218.7	2208.5	1947.7	1729.8
21976.3	62.5°	15834.5	8659.3	2978.5	2028.7	2016.0	1965.4	2092.0	2092.0	1826.1	1613.3
22599.4	65°	16227.1	8588.4	2649.2	1864.1	1889.4	1813.4	1937.5	1922.3	1696.9	1509.5
23316.1	67.5°	16574.1	8355.4	2284.5	1702.0	1760.2	1664.0	1775.4	1740.0	1555.1	1405.7
23936.7	70°	16728.6	7813.4	1869.1	1539.9	1610.8	1517.1	1613.3	1547.5	1395.5	1294.2
23255.4	72.5°	15487.5	6493.9	1471.5	1370.2	1431.0	1355.0	1438.6	1362.6	1223.3	1177.7
20081.9	75°	12813.0	4872.9	1132.1	1185.3	1230.9	1172.6	1228.4	1172.6	1046.0	1078.9
14834.1	77.5°	9305.2	3290.0	866.2	990.3	1010.6	980.2	1028.3	965.0	851.0	843.4
7393.0	80°	4627.3	1927.4	678.8	782.6	775.0	754.7	810.5	780.1	683.8	724.4
1995.8	82.5°	1339.8	825.7	493.9	549.6	534.4	539.5	580.0	595.2	891.5	883.9
620.5	85°	420.4	324.2	296.3	306.5	291.3	298.9	341.9	678.8	628.1	367.2
192.5	87.5°	108.9	111.4	73.4	78.5	81.0	96.2	108.9	412.8	197.6	129.2
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>
8641.6
8228.8
7342.3
6119.0
5169.3
4728.6
4412.0
4303.1
4270.2
4146.0
3938.4
3768.7
3609.1
3434.4
3239.3
3019.0
2674.5
2512.5
2613.8
2542.8
2251.6
2056.6
1960.3
1838.7
1722.2
1605.7
1499.4
1395.5
1274.0
1139.7
985.2
805.4
716.8
904.2
397.6
136.8
0.0

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