

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: P943675

Luminaire Tested: **GALN-SB8B-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943675
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-SB8B-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45117 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

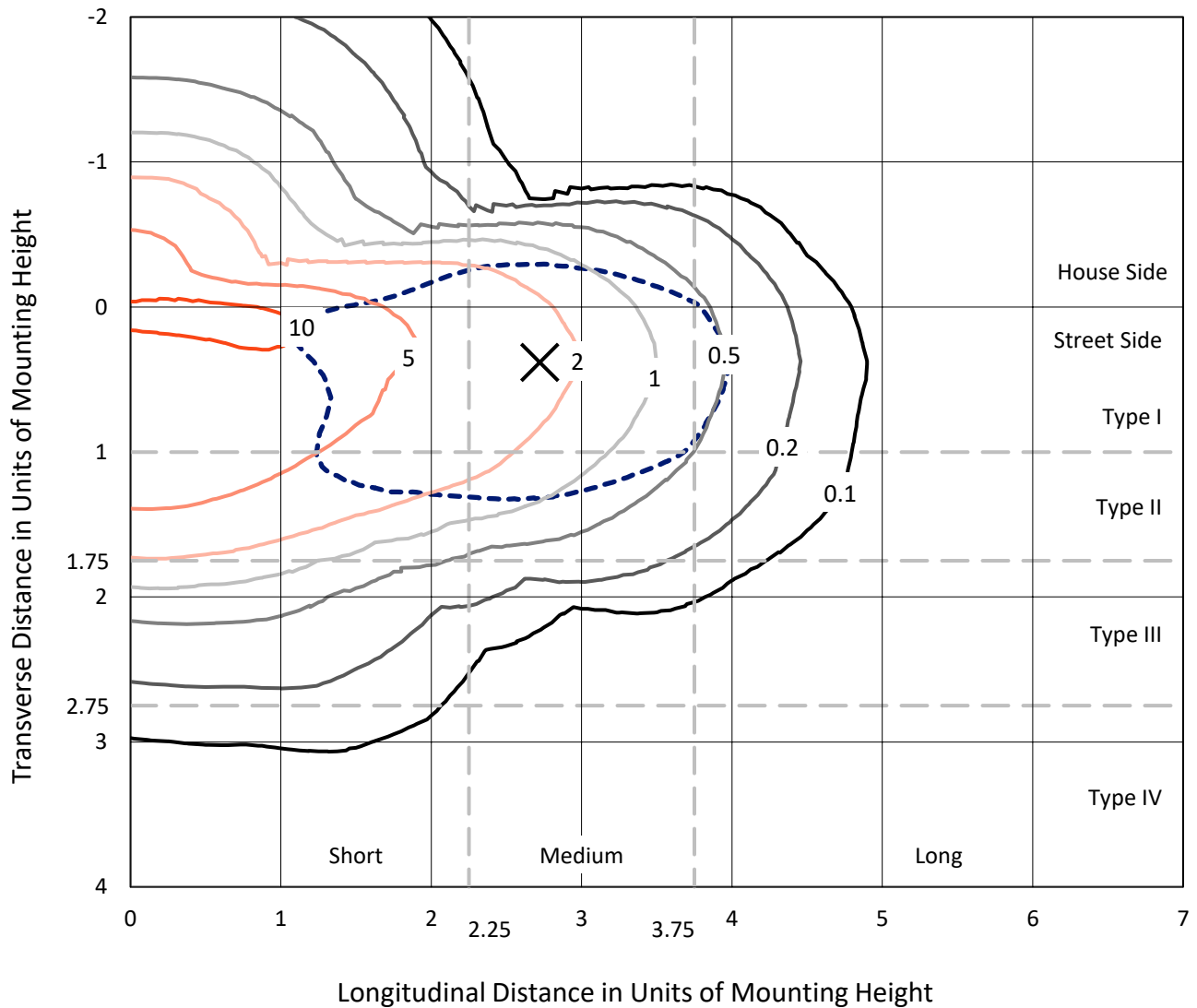
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

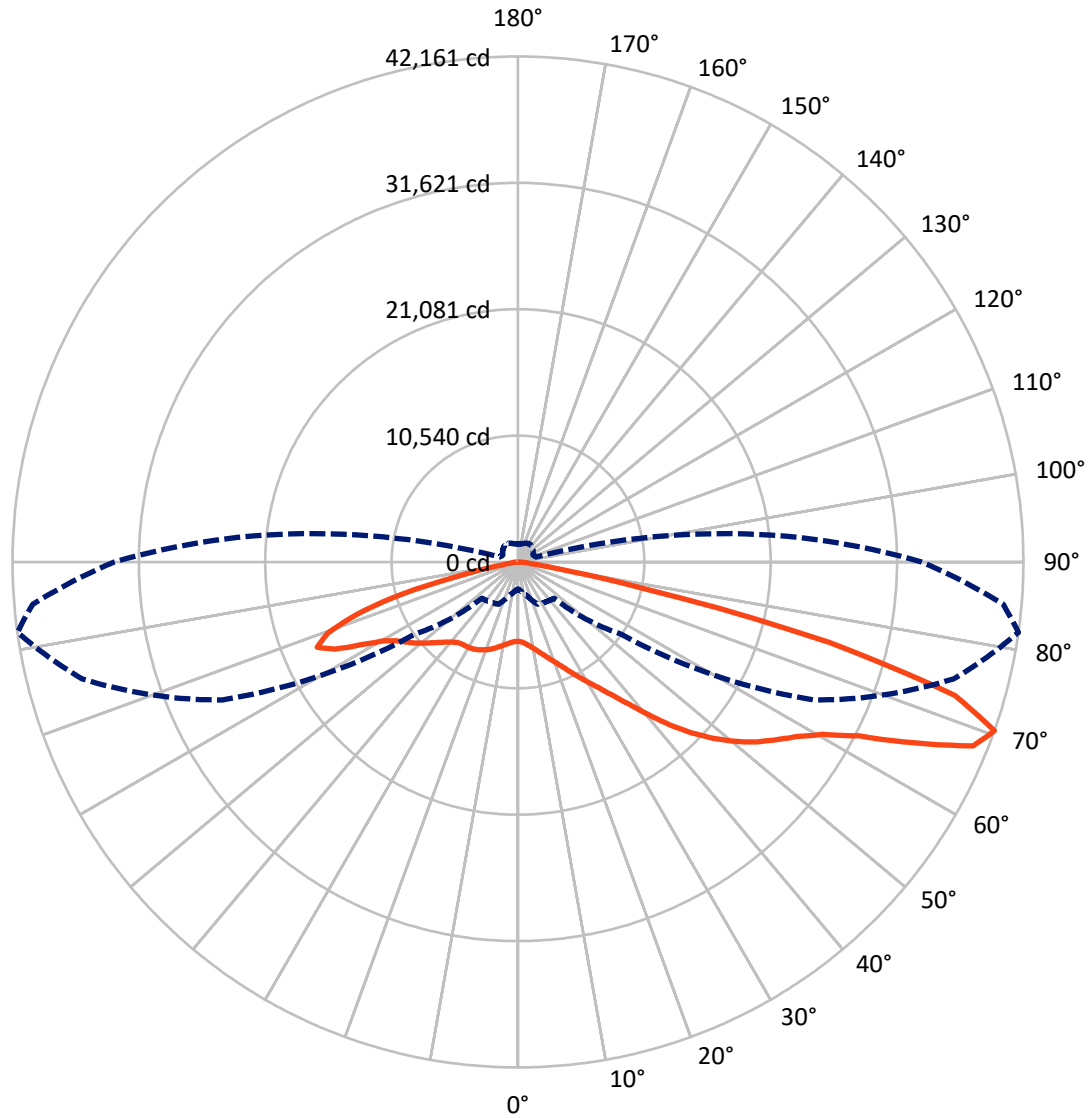
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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
House Side	Lumens	11122.5	0.0	11122.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	33994.6	0.0	33994.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	45117.0	0.0	45117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.5	1.4
10°-20°	1794.4	4.0
20°-30°	3001.8	6.7
30°-40°	4689.6	10.4
40°-50°	7468.7	16.6
50°-60°	10393.6	23.0
60°-70°	10872.1	24.1
70°-80°	5682.4	12.6
80°-90°	590.0	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°	45117.0	100.0
0°-180°	45117.0	100.0

Coefficient of Utilization



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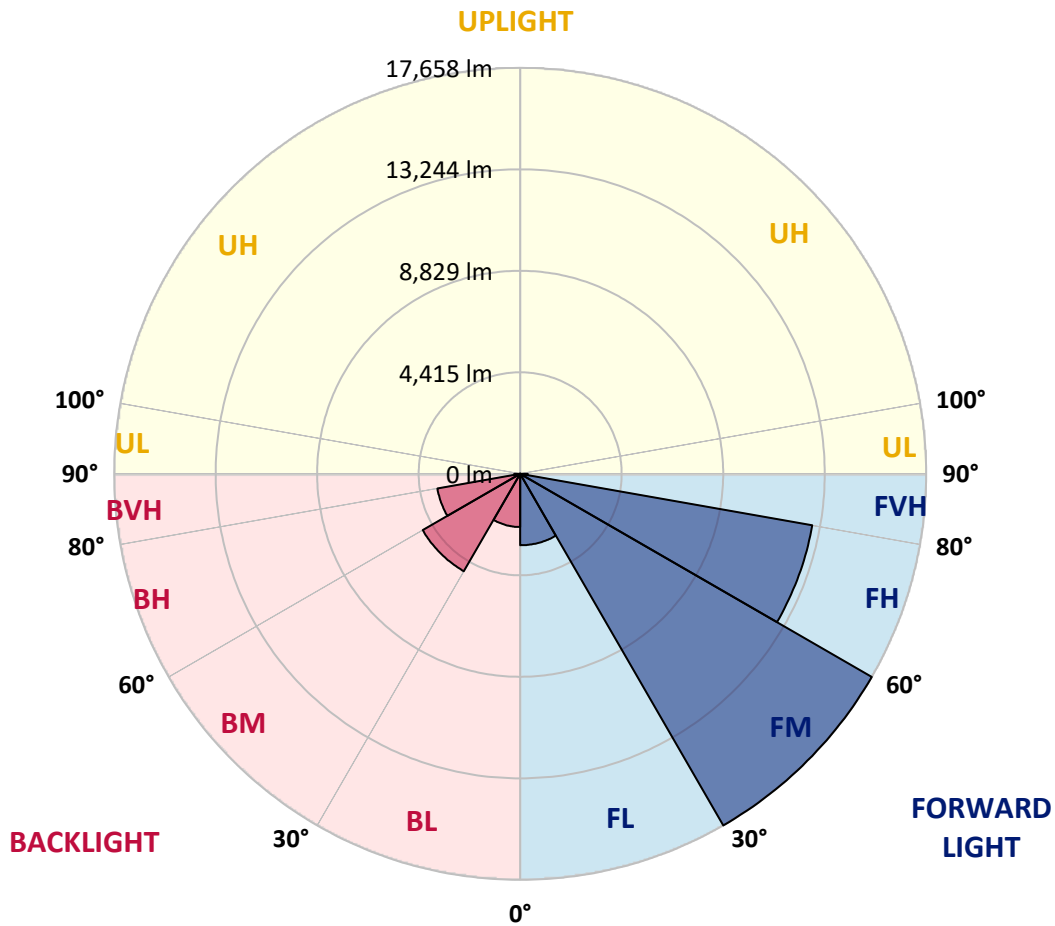
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3106.8	6.9			
FM (30°-60°)	17658.3	39.1			
FH (60°-80°)	12899.1	28.6			G5
FVH (80°-90°)	330.3	0.7			G3/500
BL (0°-30°)	2313.9	5.1	B3/2500		
BM (30°-60°)	4893.4	10.8	B3/5000		
BH (60°-80°)	3655.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	259.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7
2.5°	6772.7	6811.0	6799.1	6787.1	6787.1	6770.3	6767.9	6744.0	6724.8	6693.7
5°	6858.9	6899.6	6894.8	6904.4	6935.5	6942.7	6949.9	6935.5	6897.2	6858.9
7.5°	6782.3	6827.8	6842.1	6899.6	6995.4	7081.6	7146.2	7172.5	7136.6	7081.6
10°	6523.7	6574.0	6624.3	6760.8	6930.7	7134.2	7306.6	7409.5	7402.4	7349.7
12.5°	5999.4	6052.1	6159.8	6425.6	6736.8	7095.9	7416.7	7632.2	7706.4	7668.1
15°	5580.5	5626.0	5707.4	5980.3	6384.9	6930.7	7457.4	7876.4	8065.5	8044.0
17.5°	5568.5	5587.7	5638.0	5767.2	6078.5	6672.2	7414.3	8115.8	8477.3	8474.9
20°	5779.2	5786.4	5815.1	5841.4	6018.6	6475.9	7304.2	8314.5	8939.3	8939.3
22.5°	6071.3	6066.5	6095.2	6071.3	6157.5	6459.1	7234.8	8489.2	9454.0	9492.3
25°	6509.4	6485.4	6478.3	6423.2	6440.0	6614.7	7311.4	8687.9	10064.5	10143.5
27.5°	7093.5	7055.2	7028.9	6902.0	6858.9	6935.5	7546.0	8927.4	10744.4	10880.9
30°	7854.8	7785.4	7747.1	7526.8	7371.2	7383.2	7900.3	9245.8	11455.5	11675.7
32.5°	8893.8	8786.1	8683.2	8321.7	8036.8	7943.4	8357.6	9686.3	12226.3	12578.3
35°	10057.3	9971.2	9861.0	9303.2	8865.1	8649.6	8975.2	10301.5	13128.9	13686.7
37.5°	11177.7	11103.5	11156.2	10404.5	9839.5	9525.9	9784.4	11127.5	14242.1	15065.7
40°	12336.5	12279.0	12286.2	11568.0	10909.6	10557.7	10766.0	12164.1	15518.1	16705.6
42.5°	13595.7	13552.6	13409.0	12772.2	12032.4	11704.4	11896.0	13361.1	16887.5	18572.9
45°	15005.8	14979.5	14845.4	14115.2	13267.7	12899.1	13157.6	14682.6	18264.1	20330.1
47.5°	16224.4	16245.9	16229.2	15613.9	14735.3	14194.2	14503.1	16061.6	19544.9	21982.0
50°	16810.9	16923.4	17088.6	16897.1	16351.3	15800.6	15860.5	17392.7	20765.9	23531.0
52.5°	16504.5	16717.5	17167.6	17474.1	17684.7	17569.8	17409.4	18714.2	21915.0	24929.1
55°	15362.5	15661.8	16408.7	17148.5	18223.4	19058.9	19269.6	20179.3	23035.4	26159.6
57.5°	13282.1	13768.1	14438.4	15934.7	17744.6	19779.5	21438.6	22211.8	24222.8	27473.9
60°	9715.0	10366.2	11199.3	13425.7	16068.8	19394.1	23284.4	25333.7	25910.6	29176.1
62.5°	6217.3	6619.5	7385.6	9482.8	12520.8	17419.0	23849.4	29235.9	28771.5	31967.5
65°	4256.6	4515.1	5216.6	6394.5	8094.2	12966.1	22336.3	32161.5	33315.4	36391.7
67.5°	3093.1	3289.4	3887.9	4919.7	5274.1	7672.9	17332.8	32027.4	37732.4	40950.0
70°	2255.2	2394.0	2896.8	3887.9	4057.9	4268.6	10500.2	27225.0	37636.6	42161.3
72.5°	1671.0	1766.8	2104.4	3016.5	3284.6	2882.4	5197.4	19786.7	32341.0	38134.6
75°	1209.0	1280.8	1529.8	2307.8	2628.6	2195.3	2592.7	11563.2	22559.0	26825.2
77.5°	924.1	979.2	1142.0	1690.2	2104.4	1647.1	1608.8	5319.5	10696.5	10749.2
80°	742.2	778.1	866.6	1189.8	1613.6	1232.9	1048.6	2147.4	3380.4	2860.9
82.5°	545.8	605.7	732.6	835.5	1153.9	849.9	639.2	1084.5	1285.6	1106.0
85°	311.2	351.9	442.9	598.5	737.4	519.5	366.3	481.2	598.5	490.8
87.5°	110.1	143.6	155.6	234.6	320.8	215.5	141.2	138.9	196.3	146.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6614.7	0°	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7	6614.7
6686.5	2.5°	6662.6	6650.6	6602.7	6538.1	6471.1	6406.4	6384.9	6339.4	6308.3	6291.5
6842.1	5°	6796.7	6758.4	6645.8	6502.2	6351.4	6188.6	6073.7	5968.3	5891.7	5819.9
7055.2	7.5°	6988.2	6921.2	6727.2	6475.9	6207.7	5937.2	5736.1	5582.9	5479.9	5412.9
7304.2	10°	7210.8	7107.9	6811.0	6435.2	6021.0	5633.2	5396.2	5264.5	5199.8	5163.9
7589.1	12.5°	7467.0	7321.0	6897.2	6341.8	5736.1	5293.2	5130.4	5092.1	5094.5	5096.9
7948.2	15°	7783.0	7579.5	6966.6	6138.3	5365.0	5032.3	5003.5	5065.8	5130.4	5161.5
8355.2	17.5°	8139.7	7852.4	6978.6	5803.1	5001.1	4864.7	4955.7	5089.7	5187.9	5231.0
8810.0	20°	8522.8	8130.1	6892.4	5329.1	4701.9	4728.2	4891.0	5063.4	5171.1	5226.2
9329.6	22.5°	8960.9	8427.0	6686.5	4831.2	4457.7	4579.8	4771.3	4938.9	5051.4	5106.5
9940.0	25°	9461.2	8759.8	6363.3	4412.2	4247.0	4412.2	4603.7	4742.6	4833.6	4883.8
10622.3	27.5°	10016.6	9106.9	5932.4	4079.4	4062.7	4239.8	4397.8	4505.6	4553.5	4591.8
11347.7	30°	10574.4	9422.9	5410.5	3828.1	3902.3	4069.9	4182.4	4230.3	4244.6	4251.8
12156.9	32.5°	11177.7	9695.8	4862.3	3619.8	3749.1	3904.7	3971.7	3993.2	3926.2	3880.7
13138.5	35°	11907.9	9987.9	4326.0	3454.6	3598.2	3732.3	3753.8	3734.7	3655.7	3562.3
14369.0	37.5°	12810.5	10351.8	3897.5	3337.3	3457.0	3545.6	3519.2	3514.4	3521.6	3411.5
15848.5	40°	13916.5	10825.8	3583.9	3246.3	3342.1	3361.2	3287.0	3327.7	3363.6	3196.0
17471.7	42.5°	15144.7	11398.0	3385.2	3184.1	3246.3	3200.8	3085.9	3131.4	3126.6	2906.4
19102.0	45°	16396.7	12020.4	3315.7	3138.6	3157.7	3066.8	2939.9	2951.8	2851.3	2652.6
20665.3	47.5°	17641.6	12688.4	3358.8	3100.3	3047.6	2944.7	2846.5	2793.8	2645.4	2497.0
22164.0	50°	18862.6	13389.8	3516.8	3023.7	2896.8	2836.9	2765.1	2671.7	2513.7	2386.9
23581.2	52.5°	19995.0	14096.1	3694.0	2896.8	2707.7	2743.6	2698.1	2590.3	2434.7	2305.5
24921.9	55°	21067.5	14802.3	3763.4	2722.0	2530.5	2662.2	2635.8	2437.1	2250.4	2145.1
26324.8	57.5°	22235.8	15652.2	3686.8	2499.4	2386.9	2568.8	2468.2	2248.0	2140.3	2061.3
28151.4	60°	23854.2	16985.7	3521.6	2224.1	2250.4	2429.9	2257.6	2166.6	2049.3	1960.7
30890.2	62.5°	26542.7	19473.1	3255.9	1951.1	2090.0	2224.1	2157.0	2066.1	1946.3	1860.2
35573.0	65°	30516.8	22930.1	2755.5	1738.1	1910.4	2023.0	2049.3	1958.3	1833.8	1742.9
39676.3	67.5°	33868.4	25099.1	2085.2	1560.9	1726.1	1860.2	1934.4	1845.8	1714.1	1625.5
40636.3	70°	33684.1	23523.8	1592.0	1386.1	1563.3	1699.8	1795.5	1726.1	1584.9	1501.1
36911.2	72.5°	29918.2	19679.0	1288.0	1209.0	1398.1	1532.2	1647.1	1594.4	1450.8	1369.4
27040.6	75°	21979.6	13969.2	1029.4	1029.4	1192.2	1357.4	1484.3	1450.8	1319.1	1261.7
11352.5	77.5°	9264.9	5860.6	806.8	854.7	991.1	1165.9	1323.9	1335.9	1221.0	1292.8
3002.1	80°	2463.5	1616.0	615.3	672.7	778.1	962.4	1151.5	1146.7	1022.3	955.2
1115.6	82.5°	938.5	636.8	438.1	474.0	562.6	737.4	912.1	940.9	816.4	706.2
438.1	85°	361.5	272.9	270.5	284.9	328.0	488.4	689.5	713.4	615.3	521.9
122.1	87.5°	93.4	81.4	100.5	95.8	150.8	260.9	395.0	409.4	375.9	217.9
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>
6614.7
6310.7
5848.6
5427.3
5173.5
5101.7
5159.1
5240.5
5240.5
5120.8
4898.2
4606.1
4268.6
3895.1
3567.1
3418.7
3200.8
2904.0
2659.8
2497.0
2377.3
2307.8
2135.5
2054.1
1955.9
1860.2
1747.6
1627.9
1508.2
1369.4
1244.9
1173.1
888.2
706.2
538.7
311.2
0.0

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