

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: P944764

Luminaire Tested: **GALN-SB9D-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64740 lumens
Efficiency: N/A
Efficacy: 98.4 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

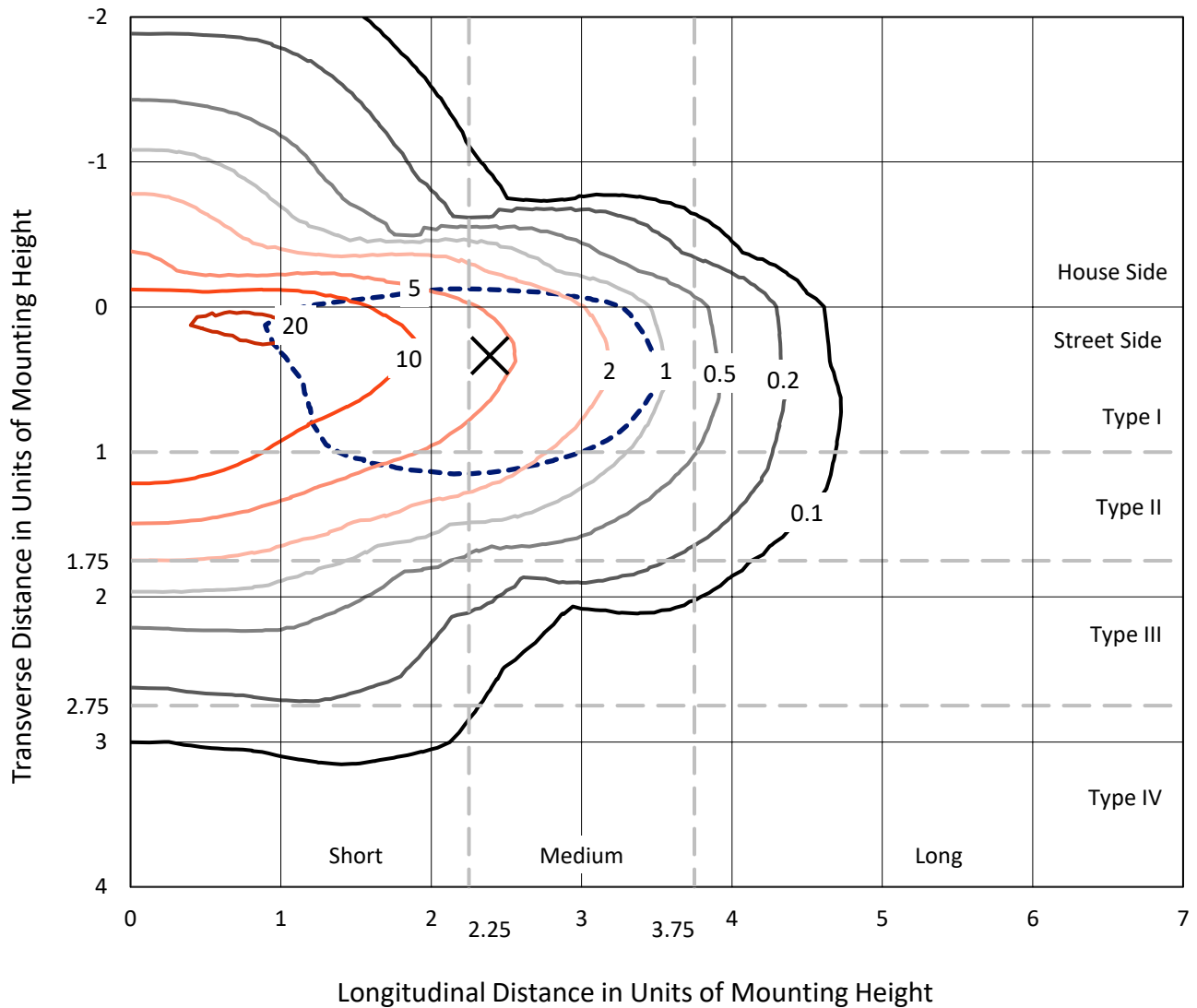
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

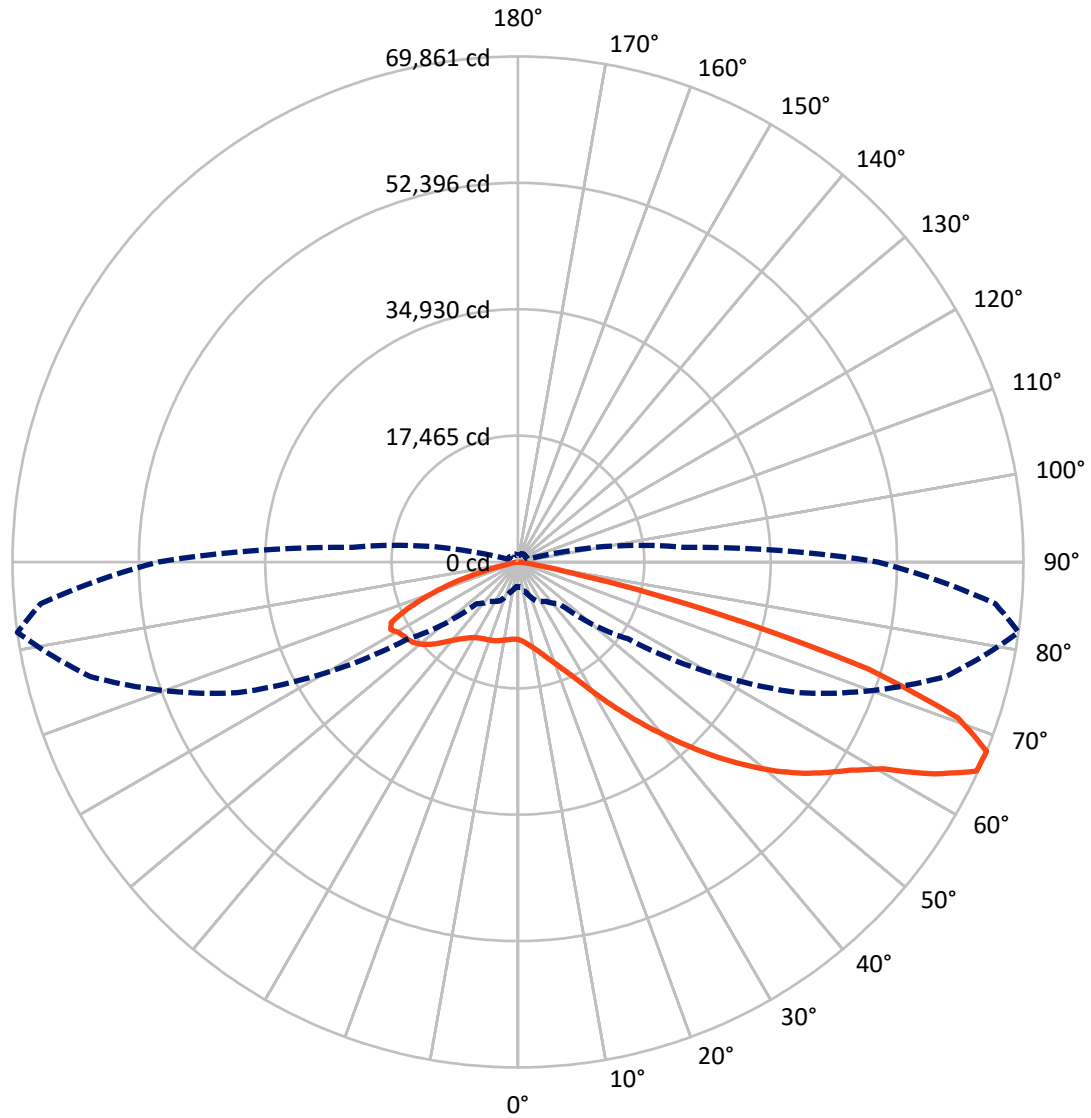
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11727.1	0.0	11727.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	53012.9	0.0	53012.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	64740.0	0.0	64740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.5	1.5
10°-20°	2483.1	3.8
20°-30°	3977.1	6.1
30°-40°	7032.7	10.9
40°-50°	12321.9	19.0
50°-60°	16434.0	25.4
60°-70°	15299.2	23.6
70°-80°	5871.8	9.1
80°-90°	364.7	0.6
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°	64740.0	100.0
0°-180°	64740.0	100.0

Coefficient of Utilization



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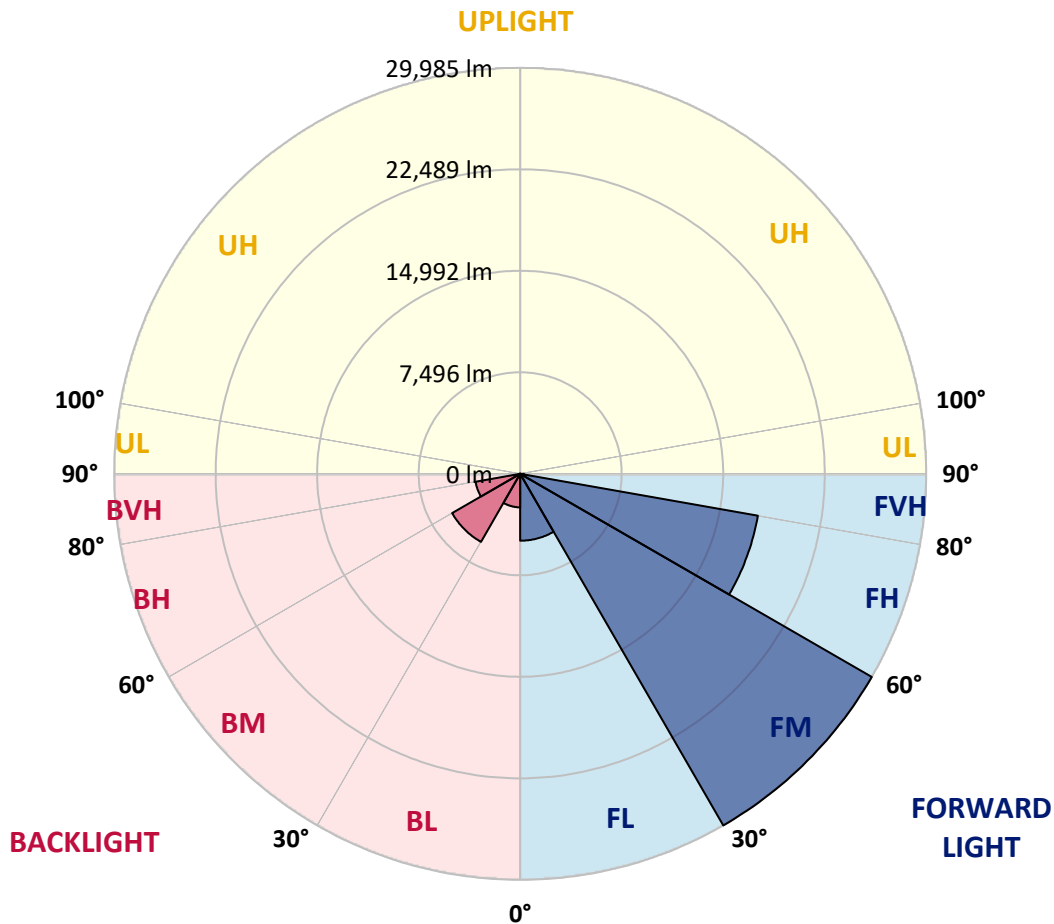
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4938.9	7.6			
FM (30°-60°)	29984.9	46.3			
FH (60°-80°)	17823.9	27.5			G5
FVH (80°-90°)	265.1	0.4			G3/500
BL (0°-30°)	2476.7	3.8	B3/2500		
BM (30°-60°)	5803.7	9.0	B4/8500		
BH (60°-80°)	3347.1	5.2	B4/5000		G4/5000
BVH (80°-90°)	99.6	0.2			G1/100
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°	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2
2.5°	11335.8	11401.1	11363.8	11345.2	11312.5	11265.9	11228.6	11112.1	10990.9	10911.7
5°	11564.2	11629.5	11624.8	11643.5	11666.8	11680.8	11671.4	11540.9	11368.5	11233.3
7.5°	11368.5	11443.0	11503.6	11596.9	11760.0	11932.5	12016.4	11988.4	11811.3	11624.8
10°	10813.8	10893.0	11037.5	11256.6	11601.5	11974.4	12286.7	12431.2	12319.3	12114.2
12.5°	9797.7	9876.9	10161.2	10636.7	11214.6	11862.5	12459.2	12846.0	12874.0	12668.9
15°	8655.7	8734.9	9037.9	9634.5	10515.5	11554.9	12552.4	13284.2	13531.2	13354.1
17.5°	7947.2	8017.1	8245.5	8725.6	9643.8	10939.6	12519.8	13750.3	14314.3	14174.5
20°	7732.8	7793.4	7900.6	8236.2	9000.6	10301.1	12305.3	14188.4	15157.9	15078.7
22.5°	7961.2	8017.1	8049.7	8198.9	8679.0	9881.6	12035.0	14635.9	16136.8	16146.1
25°	8487.9	8543.8	8506.5	8599.8	8809.5	9751.1	11932.5	15162.6	17367.3	17469.9
27.5°	9354.9	9359.5	9271.0	9266.3	9298.9	9946.8	12039.7	15726.6	18919.5	19110.6
30°	11093.5	11023.5	10683.3	10315.0	10147.2	10534.1	12338.0	16393.1	20751.3	21091.5
32.5°	13773.6	13671.1	13046.5	12165.5	11279.9	11480.3	12874.0	17152.9	22746.2	23361.5
35°	16682.1	16654.2	16001.6	14691.8	13144.3	12827.4	13745.6	18150.4	24923.0	25901.8
37.5°	19385.6	19371.6	18998.7	17455.9	15572.8	14705.8	15144.0	19455.5	27253.5	28670.5
40°	21856.0	21897.9	21525.0	20145.3	18248.3	17115.6	17045.7	21068.2	29845.1	31686.3
42.5°	23990.8	24037.4	23659.8	22639.0	20891.1	19781.8	19380.9	23044.6	32376.1	34925.7
45°	25440.4	25729.4	25673.4	24857.7	23603.9	22452.6	22186.9	25524.3	35261.3	38361.0
47.5°	25850.5	26116.2	26535.7	26647.6	25883.2	24750.5	25067.5	28512.0	38179.2	41800.9
50°	24839.1	25086.1	25957.8	27118.4	27649.7	27300.2	27868.8	31714.2	41167.0	45231.5
52.5°	22844.1	23095.8	24195.9	26032.3	28199.7	29299.8	30679.5	34869.8	44061.5	48480.3
55°	19958.9	20224.6	21636.9	23715.8	27151.0	30124.8	33024.0	38020.7	46713.7	51402.8
57.5°	16034.2	16230.0	17698.3	20606.8	24512.8	29304.4	34753.3	41460.6	49212.1	54274.0
60°	10450.2	10622.7	12328.7	15572.8	20140.7	26563.7	35098.2	45296.7	52530.8	58007.6
62.5°	6949.7	7066.3	8077.7	10459.5	14183.8	21301.3	33079.9	48359.1	57397.0	64505.2
65°	4768.3	4884.8	5896.3	7555.7	9163.8	14090.6	27276.8	47953.6	61806.4	69665.0
67.5°	3402.6	3500.5	4358.1	5924.3	6632.8	8184.9	18490.6	42770.4	61172.5	69860.8
70°	2437.8	2493.7	3202.2	4614.5	5271.7	4917.5	10282.4	32711.7	53560.9	64509.8
72.5°	1706.0	1724.6	2223.4	3514.5	4246.3	3589.1	4894.2	21809.4	40509.8	50633.7
75°	1156.0	1179.3	1496.2	2577.6	3407.3	2740.7	2591.6	11694.7	23781.0	28027.3
77.5°	708.5	717.8	964.9	1761.9	2549.6	2088.2	1668.7	4954.8	9201.0	9033.2
80°	400.9	400.9	615.3	1095.4	1738.6	1347.1	1169.9	2106.8	2913.2	2559.0
82.5°	223.7	228.4	447.5	680.5	1151.3	797.1	643.2	974.2	1258.5	1114.0
85°	93.2	102.5	275.0	321.6	550.0	396.2	261.0	410.2	466.1	414.8
87.5°	9.3	14.0	83.9	60.6	65.3	79.2	37.3	79.2	65.3	65.3
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°
10725.2	0°	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2	10725.2
10883.7	2.5°	10795.1	10725.2	10548.1	10343.0	10072.7	9942.2	9765.0	9643.8	9541.3	9550.6
11154.0	5°	11004.9	10827.8	10431.6	9937.5	9322.2	8884.1	8418.0	8096.4	7835.3	7779.4
11526.9	7.5°	11293.9	11014.2	10319.7	9429.4	8390.0	7602.3	6898.5	6446.3	6124.7	6022.2
11979.1	10°	11666.8	11261.3	10175.2	8790.9	7294.6	6292.5	5537.4	5183.2	4964.1	4889.5
12510.4	12.5°	12100.3	11545.6	9984.1	8012.5	6166.7	5201.8	4721.7	4544.6	4474.7	4451.4
13163.0	15°	12645.6	11899.8	9695.1	7089.6	5211.1	4535.3	4330.2	4306.9	4316.2	4306.9
13946.1	17.5°	13293.5	12286.7	9224.3	6138.7	4567.9	4195.0	4120.4	4139.1	4162.4	4157.7
14822.3	20°	14002.0	12668.9	8623.1	5295.0	4129.7	3952.6	3910.7	3929.3	3948.0	3938.6
15833.8	22.5°	14808.4	13079.1	7956.5	4637.8	3836.1	3728.9	3682.3	3686.9	3686.9	3668.3
17115.6	25°	15773.2	13531.2	7257.4	4171.7	3612.4	3528.5	3472.5	3453.9	3425.9	3370.0
18672.4	27.5°	16924.5	14011.3	6586.2	3845.4	3435.2	3356.0	3290.7	3244.1	3174.2	3081.0
20541.5	30°	18220.3	14594.0	6017.5	3640.3	3295.4	3216.2	3141.6	3071.7	2969.1	2852.6
22690.3	32.5°	19744.5	15218.5	5602.7	3505.2	3169.6	3085.7	2997.1	2913.2	2801.3	2684.8
25104.8	35°	21562.3	15973.6	5360.3	3411.9	3071.7	2959.8	2861.9	2768.7	2684.8	2582.3
27729.0	37.5°	23534.0	16775.4	5285.7	3365.3	3006.4	2834.0	2722.1	2656.8	2647.5	2586.9
30567.6	40°	25692.1	17726.2	5341.6	3337.4	2936.5	2712.8	2591.6	2577.6	2600.9	2493.7
33602.0	42.5°	27976.0	18854.2	5434.9	3304.7	2838.6	2591.6	2475.1	2475.1	2456.4	2307.3
36808.8	45°	30446.4	20154.7	5528.1	3225.5	2722.1	2470.4	2381.8	2349.2	2270.0	2125.5
40034.3	47.5°	32935.4	21478.4	5598.0	3081.0	2582.3	2367.8	2288.6	2214.0	2097.5	1967.0
43199.2	50°	35298.6	22667.0	5523.4	2866.6	2423.8	2270.0	2186.1	2083.5	1957.7	1869.1
46196.3	52.5°	37410.1	23697.1	5206.5	2614.9	2256.0	2167.4	2092.8	1985.6	1883.1	1789.9
48899.8	55°	39246.6	24531.5	4647.1	2377.2	2106.8	2078.9	2004.3	1869.1	1729.3	1650.0
51579.9	57.5°	41008.5	25165.4	3948.0	2181.4	1971.7	1981.0	1869.1	1747.9	1617.4	1533.5
55192.3	60°	43353.0	26013.7	3239.5	1999.6	1827.2	1855.1	1733.9	1645.4	1482.2	1375.0
61386.9	62.5°	47100.6	27332.8	2572.9	1775.9	1659.4	1668.7	1617.4	1510.2	1314.4	1188.6
65978.1	65°	50074.4	26848.0	2027.6	1533.5	1468.3	1482.2	1482.2	1365.7	1156.0	1011.5
66225.1	67.5°	49738.8	22988.6	1617.4	1295.8	1286.5	1295.8	1328.4	1230.5	1025.4	908.9
61181.8	70°	45818.8	18285.6	1295.8	1076.7	1118.7	1095.4	1188.6	1123.3	922.9	806.4
47431.5	72.5°	37386.8	13172.3	988.2	890.3	857.6	894.9	1072.1	1011.5	769.1	638.6
25123.4	75°	21846.6	7029.0	736.5	703.8	619.9	745.8	950.9	862.3	587.3	470.8
7700.2	77.5°	7112.9	2451.7	540.7	517.4	461.5	601.3	811.0	727.1	480.1	372.9
2256.0	80°	1906.4	741.1	368.2	340.3	298.3	447.5	643.2	578.0	344.9	242.4
969.5	82.5°	764.4	312.3	214.4	191.1	163.1	307.6	508.1	466.1	256.4	153.8
303.0	85°	247.0	102.5	79.2	60.6	74.6	191.1	303.0	317.0	181.8	79.2
46.6	87.5°	32.6	14.0	14.0	18.6	14.0	32.6	93.2	88.6	51.3	9.3
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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180°
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10725.2
9457.4
7653.6
5919.6
4833.6
4437.4
4302.2
4148.4
3934.0
3659.0
3360.7
3071.7
2843.3
2689.5
2572.9
2582.3
2498.4
2307.3
2120.8
1962.3
1855.1
1780.5
1640.7
1524.2
1361.0
1179.3
997.5
890.3
792.4
624.6
456.8
358.9
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