

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: P957144

Luminaire Tested: **GALN-SB9C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957144
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-SB9C-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59904 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

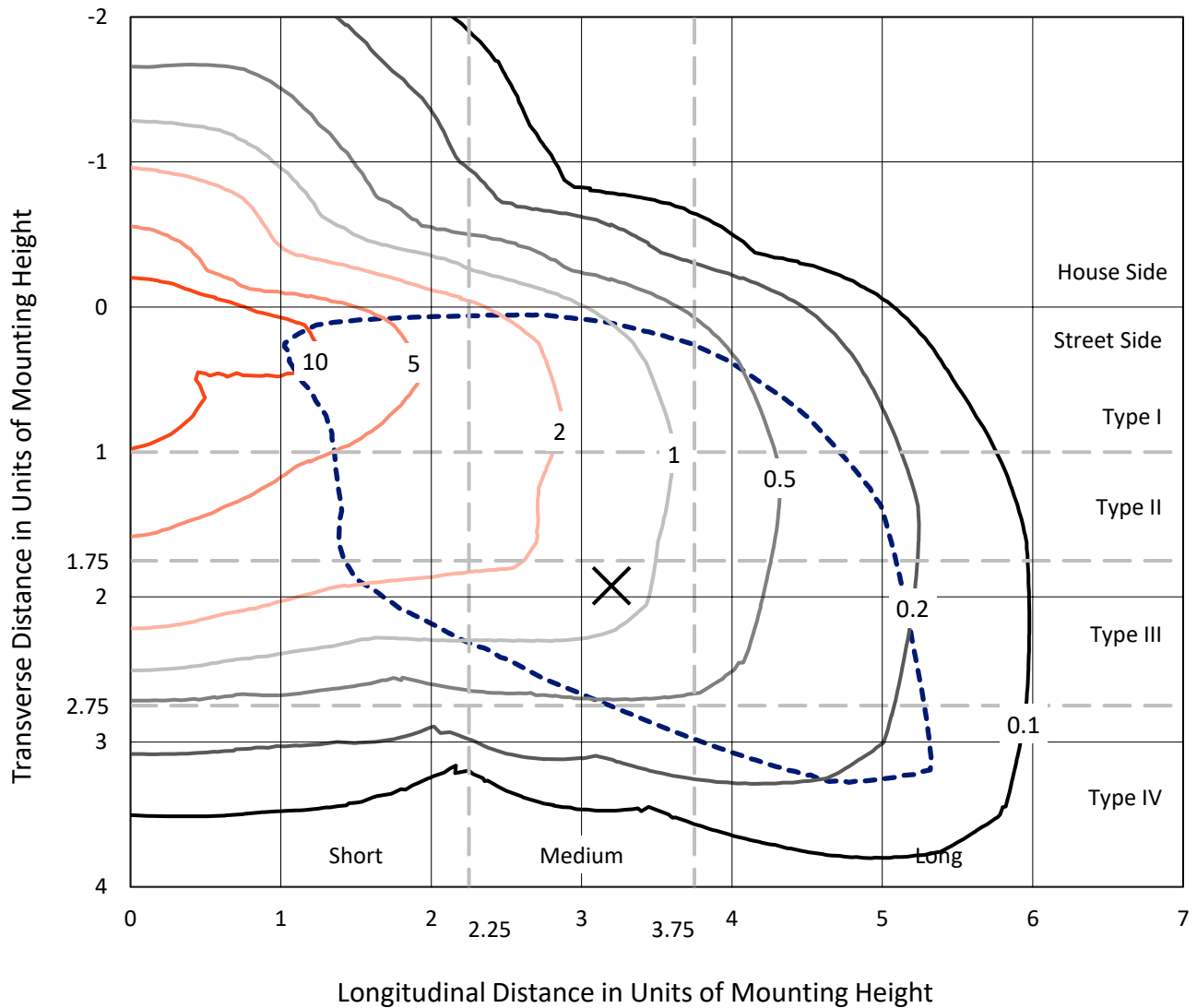
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

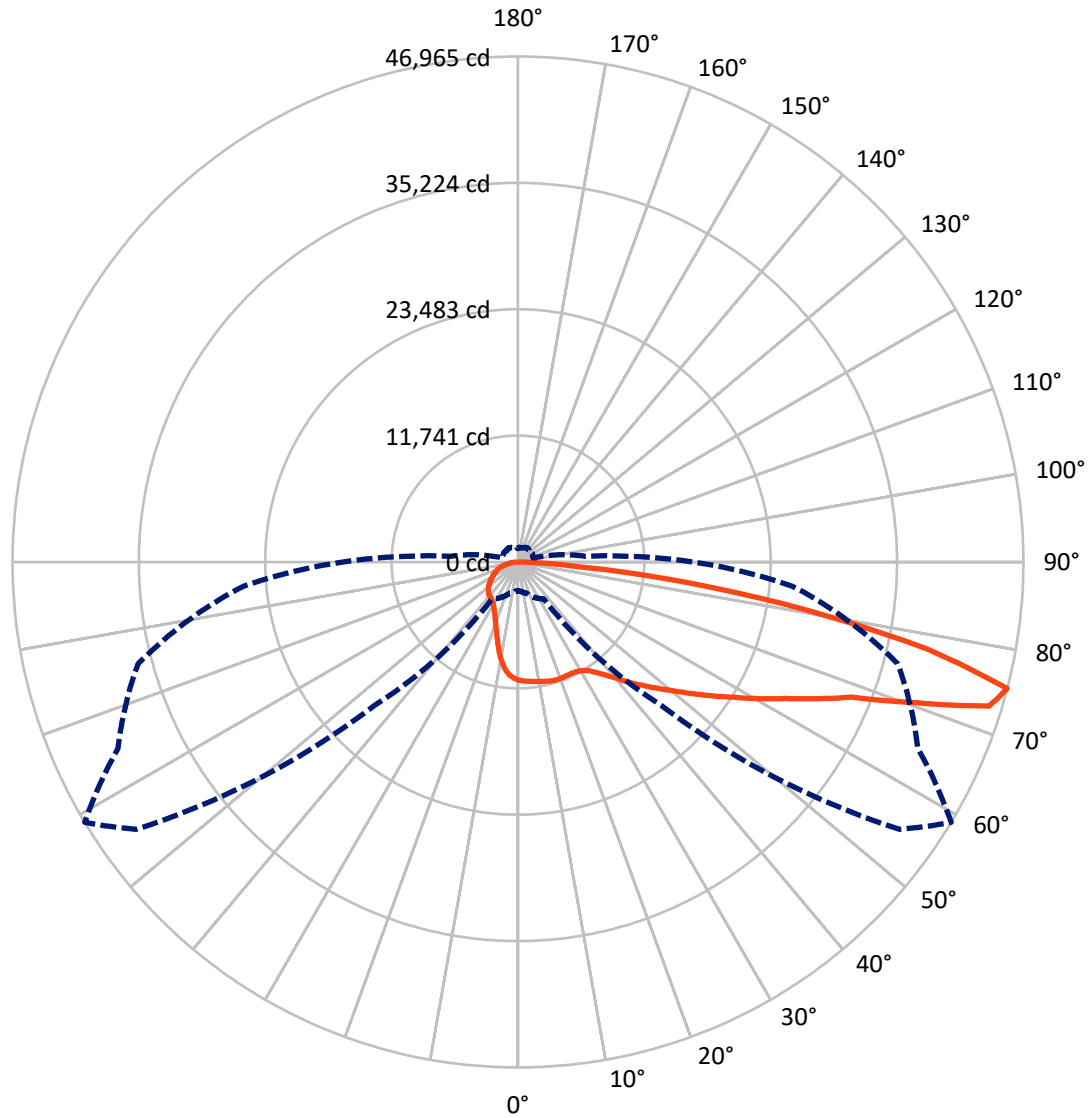
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	11235.4	0.0	11235.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	48668.6	0.0	48668.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	59904.0	0.0	59904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	985.9	1.6
10°-20°	2520.0	4.2
20°-30°	3827.7	6.4
30°-40°	5689.8	9.5
40°-50°	8461.7	14.1
50°-60°	11485.8	19.2
60°-70°	14022.3	23.4
70°-80°	11004.5	18.4
80°-90°	1906.2	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°	59904.0	100.0
0°-180°	59904.0	100.0

Coefficient of Utilization



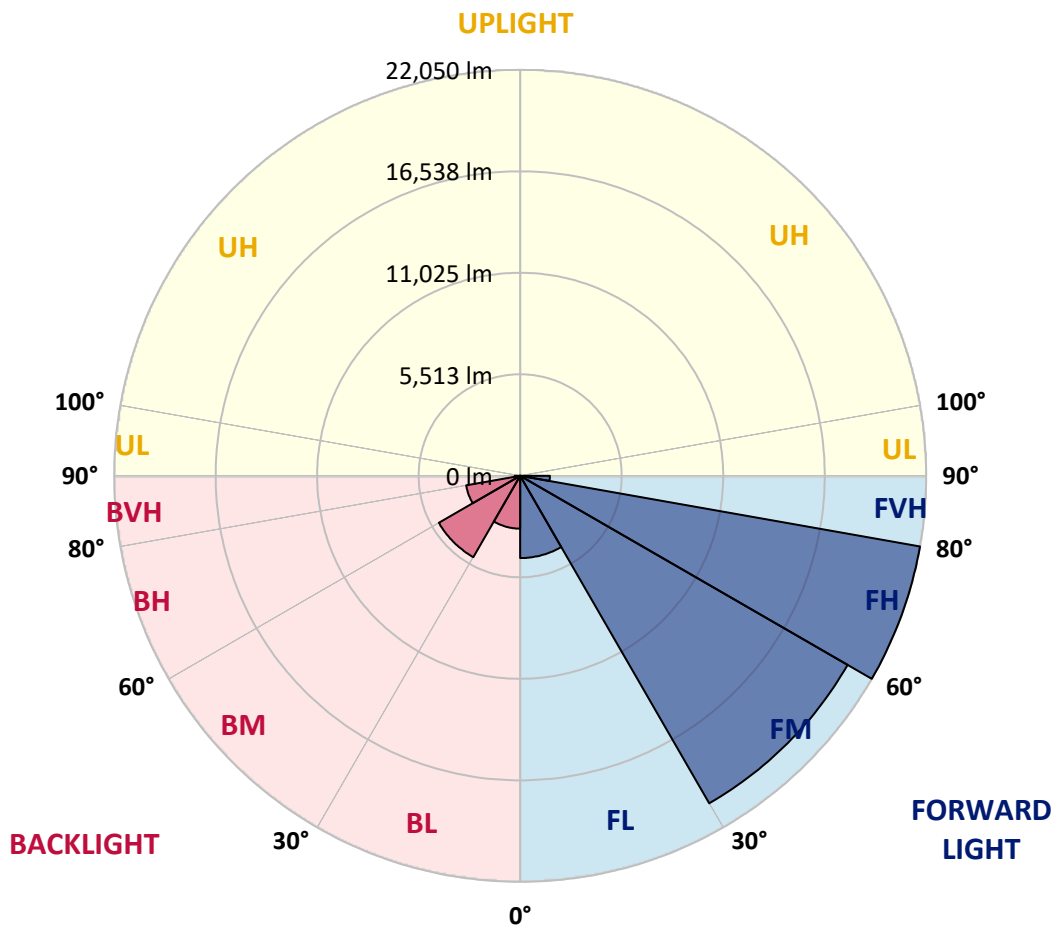
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4466.5	7.5			
FM (30°-60°)	20537.6	34.3			
FH (60°-80°)	22050.1	36.8			G5
FVH (80°-90°)	1614.4	2.7			G5
BL (0°-30°)	2867.2	4.8	B4/5000		
BM (30°-60°)	5099.8	8.5	B4/8500		
BH (60°-80°)	2976.7	5.0	B4/5000		G4/5000
BVH (80°-90°)	291.8	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2
2.5°	11088.7	11050.0	11088.7	11072.6	11066.1	11053.3	11056.5	11079.0	11066.1	11082.3
5°	11014.6	10992.0	11030.7	11021.0	11062.9	11069.4	11111.3	11137.0	11153.1	11156.4
7.5°	10892.1	10869.6	10924.4	10969.5	11059.7	11085.5	11172.5	11214.4	11236.9	11275.6
10°	10444.2	10434.5	10569.9	10740.7	10953.4	11085.5	11217.6	11288.5	11323.9	11427.1
12.5°	9651.5	9664.3	9841.6	10170.3	10595.7	11021.0	11269.2	11372.3	11427.1	11556.0
15°	8894.2	8890.9	9084.3	9435.5	10031.7	10737.4	11294.9	11472.2	11565.6	11755.8
17.5°	8455.9	8443.0	8578.4	8845.8	9400.1	10302.4	11230.5	11527.0	11726.8	11965.2
20°	8375.3	8349.6	8420.5	8552.6	8945.7	9825.5	11062.9	11527.0	11855.7	12165.0
22.5°	8668.6	8626.7	8597.7	8581.6	8755.6	9432.3	10872.8	11488.3	12045.8	12451.8
25°	9258.3	9193.9	9045.6	8900.6	8849.0	9255.1	10705.2	11478.6	12329.4	12838.5
27.5°	10212.2	10131.6	9831.9	9483.9	9171.3	9345.3	10631.1	11536.6	12642.0	13247.8
30°	11394.8	11307.8	10930.8	10395.9	9835.1	9680.5	10724.6	11707.4	13041.5	13792.4
32.5°	12455.0	12358.4	12036.1	11491.5	10734.2	10260.5	11021.0	12032.9	13669.9	14549.7
35°	13396.0	13283.2	12993.2	12490.5	11836.3	11075.8	11556.0	12609.7	14562.6	15780.7
37.5°	14317.7	14185.5	13869.7	13338.0	12880.4	12161.8	12293.9	13350.9	15748.5	17275.9
40°	15348.9	15158.7	14775.3	14250.0	13805.3	13434.7	13263.9	14259.7	16953.7	18945.2
42.5°	16347.9	16167.4	15709.8	15261.9	14704.4	14598.0	14388.6	15323.1	18271.7	20778.8
45°	17424.2	17208.3	16654.0	16086.8	15735.6	15371.4	15477.8	16386.5	19563.9	22647.9
47.5°	18432.8	18191.1	17537.0	16905.4	16712.0	16022.4	16476.8	17556.3	20907.7	24542.7
50°	18977.4	18739.0	18194.4	17624.0	17472.5	16824.8	17559.5	18842.1	22316.0	26431.1
52.5°	19431.8	19174.0	18461.8	18146.0	18100.9	17698.1	18893.6	20311.6	23724.2	28100.4
55°	19915.2	19628.4	18719.6	18436.0	18642.3	18677.7	20475.9	21977.6	25213.0	29727.8
57.5°	20472.7	20108.5	18967.8	18681.0	19170.8	19825.0	22293.4	23704.9	26676.0	31235.9
60°	20998.0	20630.6	19444.7	19070.9	19741.2	21155.9	24378.4	25796.3	28332.4	32579.7
62.5°	21101.1	20798.2	19825.0	19821.7	20514.6	22709.1	26846.8	27907.0	29779.3	33907.4
65°	19315.8	19125.7	18548.8	19792.7	21623.1	24945.5	29595.6	30607.5	31619.4	35067.5
67.5°	14701.1	14726.9	14685.0	17085.8	20727.3	28158.4	33575.5	33498.1	33891.3	36369.4
70°	6722.2	6873.6	7859.7	11794.4	16605.7	28529.0	40155.8	39153.6	36743.2	38054.8
72.5°	3631.8	3747.8	4150.6	5713.5	9983.4	25364.5	45073.4	45785.6	40536.1	39189.1
75°	2665.0	2729.5	3009.8	3631.8	4192.5	18851.8	43310.7	46965.0	41009.8	36543.4
77.5°	1994.7	2023.7	2252.5	2877.7	2146.2	9938.3	34606.7	38895.8	35106.2	30024.2
80°	1446.9	1479.1	1649.9	2159.1	1504.9	3635.0	23762.9	27301.2	24043.2	19138.6
82.5°	999.0	1011.9	1086.0	1469.5	1050.5	1411.5	13483.0	16009.5	13421.8	6715.7
85°	602.6	618.7	650.9	857.2	596.2	670.3	5819.9	6019.7	4012.0	1604.8
87.5°	248.1	264.2	290.0	360.9	235.2	186.9	960.3	1205.2	750.8	470.5
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°
10995.2	0°	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2	10995.2
11027.5	2.5°	11011.4	10988.8	10927.6	10843.8	10766.4	10669.8	10627.9	10592.4	10560.2	10499.0
11114.5	5°	11079.0	11017.8	10853.5	10640.8	10399.1	10134.8	9877.0	9699.8	9548.3	9435.5
11214.4	7.5°	11182.2	11066.1	10766.4	10331.4	9777.1	9210.0	8697.6	8333.4	8059.5	7959.6
11356.2	10°	11288.5	11149.9	10627.9	9860.9	8903.8	8030.5	7350.6	6976.8	6757.6	6686.7
11523.7	12.5°	11414.2	11211.2	10412.0	9206.7	7927.4	6970.3	6377.4	6158.2	6045.5	6006.8
11730.0	15°	11597.9	11262.7	10086.5	8388.2	6996.1	6196.9	5813.4	5662.0	5604.0	5600.7
11942.7	17.5°	11736.4	11272.4	9580.6	7511.7	6280.7	5729.6	5413.8	5355.8	5394.5	5452.5
12152.1	20°	11891.1	11185.4	8916.7	6712.5	5778.0	5320.4	5188.3	5226.9	5320.4	5404.2
12429.3	22.5°	12000.7	11027.5	8114.3	6090.6	5342.9	5085.1	5078.7	5159.3	5210.8	5252.7
12754.7	25°	12097.3	10760.0	7263.6	5568.5	4985.2	4943.3	5014.2	4988.5	4953.0	4988.5
13080.2	27.5°	12168.2	10337.9	6503.0	5110.9	4733.9	4846.7	4804.8	4746.8	4743.6	4762.9
13463.7	30°	12145.7	9773.9	5877.9	4675.9	4556.6	4666.2	4566.3	4556.6	4547.0	4556.6
14040.5	32.5°	12145.7	9132.6	5397.7	4376.2	4443.9	4402.0	4392.3	4369.7	4331.1	4327.8
14823.6	35°	12213.4	8491.3	4985.2	4215.1	4350.4	4250.5	4257.0	4202.2	4121.6	4082.9
15861.3	37.5°	12351.9	7975.7	4576.0	4137.7	4186.1	4182.8	4157.1	4063.6	3921.8	3799.4
17156.7	40°	12687.1	7824.3	4295.6	4102.3	4108.7	4147.4	4079.7	3899.3	3577.0	3377.2
18471.5	42.5°	13212.3	8078.9	4234.4	4015.3	4057.2	4095.8	3963.7	3544.8	3316.0	3196.7
19850.7	45°	13879.4	8523.6	4366.5	3889.6	3934.7	4002.4	3609.2	3409.4	3306.3	3309.5
21217.1	47.5°	14723.7	8990.8	4611.4	3780.0	3757.5	3796.1	3374.0	3251.5	3109.7	3145.2
22528.7	50°	15700.1	9464.5	4843.5	3631.8	3560.9	3435.2	3222.5	3106.5	2926.1	2842.3
23795.1	52.5°	16757.1	9922.1	4936.9	3451.3	3348.2	3203.2	3119.4	2977.6	2758.5	2619.9
24990.7	55°	17759.3	10337.9	4833.8	3235.4	3135.5	3022.7	3009.8	2922.8	2687.6	2494.2
26054.1	57.5°	18706.7	10685.9	4576.0	3016.3	2919.6	2851.9	2938.9	2897.0	2600.6	2352.4
27059.5	60°	19509.1	10924.4	4202.2	2793.9	2726.3	2690.8	2822.9	2810.0	2478.1	2201.0
27961.8	62.5°	20147.2	11017.8	3789.7	2581.2	2565.1	2500.7	2661.8	2661.8	2323.4	2052.7
28754.6	65°	20646.7	10927.6	3370.8	2371.8	2404.0	2307.3	2465.2	2445.9	2159.1	1920.6
29666.5	67.5°	21088.2	10631.1	2906.7	2165.5	2239.7	2117.2	2259.0	2213.9	1978.6	1788.5
30456.1	70°	21284.8	9941.5	2378.2	1959.3	2049.5	1930.3	2052.7	1969.0	1775.6	1646.7
29589.2	72.5°	19705.7	8262.5	1872.3	1743.4	1820.7	1724.0	1830.4	1733.7	1556.5	1498.5
25551.4	75°	16302.7	6200.1	1440.5	1508.1	1566.1	1492.0	1562.9	1492.0	1330.9	1372.8
18874.3	77.5°	11839.5	4186.1	1102.1	1260.0	1285.8	1247.1	1308.3	1227.8	1082.8	1073.1
9406.5	80°	5887.5	2452.3	863.6	995.8	986.1	960.3	1031.2	992.5	870.1	921.6
2539.3	82.5°	1704.7	1050.5	628.4	699.3	680.0	686.4	738.0	757.3	1134.3	1124.7
789.5	85°	534.9	412.5	377.0	389.9	370.6	380.3	435.0	863.6	799.2	467.3
244.9	87.5°	138.6	141.8	93.5	99.9	103.1	122.5	138.6	525.3	251.4	164.3
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°
10995.2
10470.0
9342.1
7785.6
6577.2
6016.4
5613.6
5475.1
5433.2
5275.3
5011.0
4795.1
4592.1
4369.7
4121.6
3841.2
3403.0
3196.7
3325.6
3235.4
2864.8
2616.7
2494.2
2339.6
2191.3
2043.1
1907.7
1775.6
1620.9
1450.1
1253.6
1024.8
912.0
1150.4
505.9
174.0
0.0

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