

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: P944068

Luminaire Tested: **GALN-SB8D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55981 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

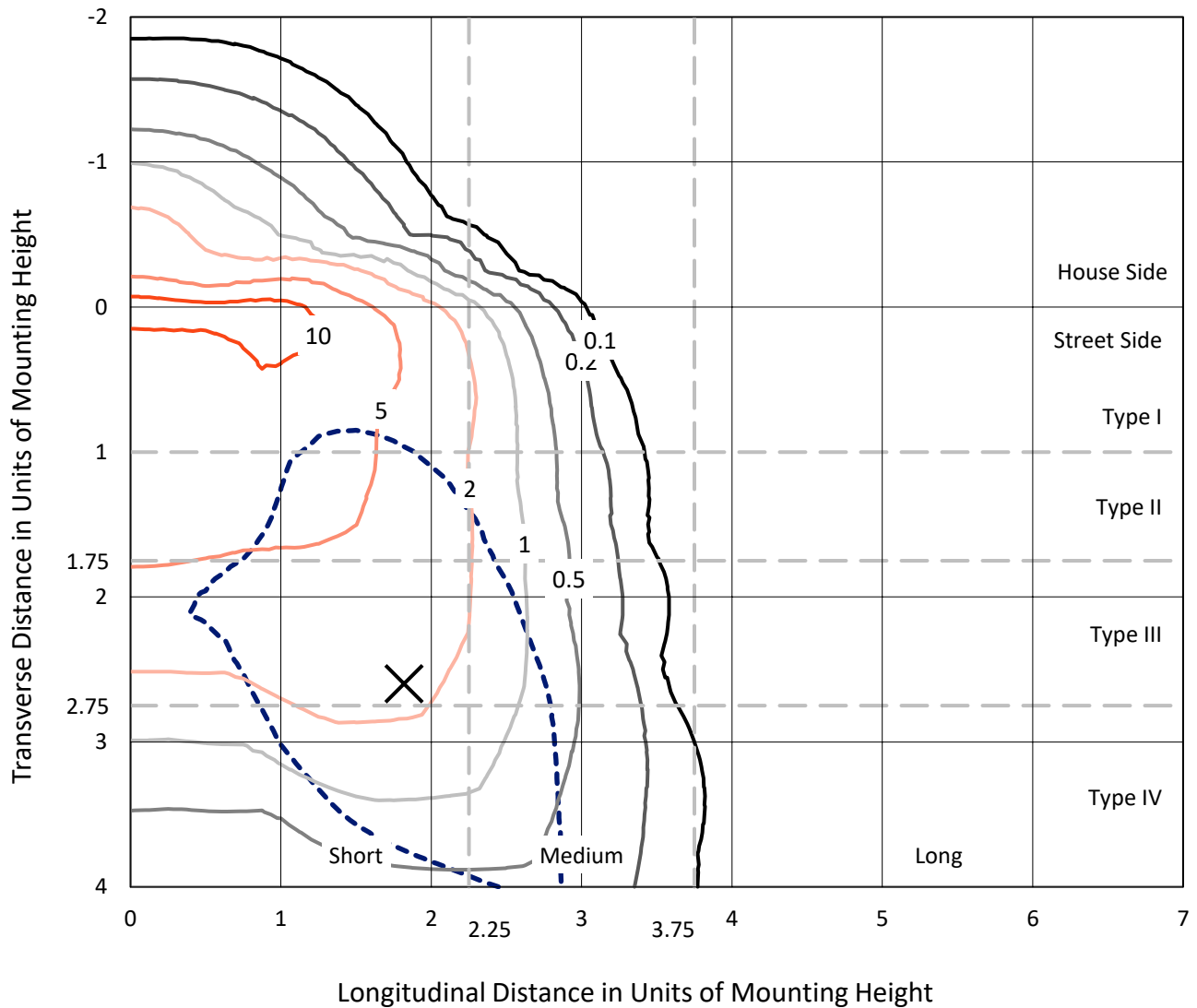
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

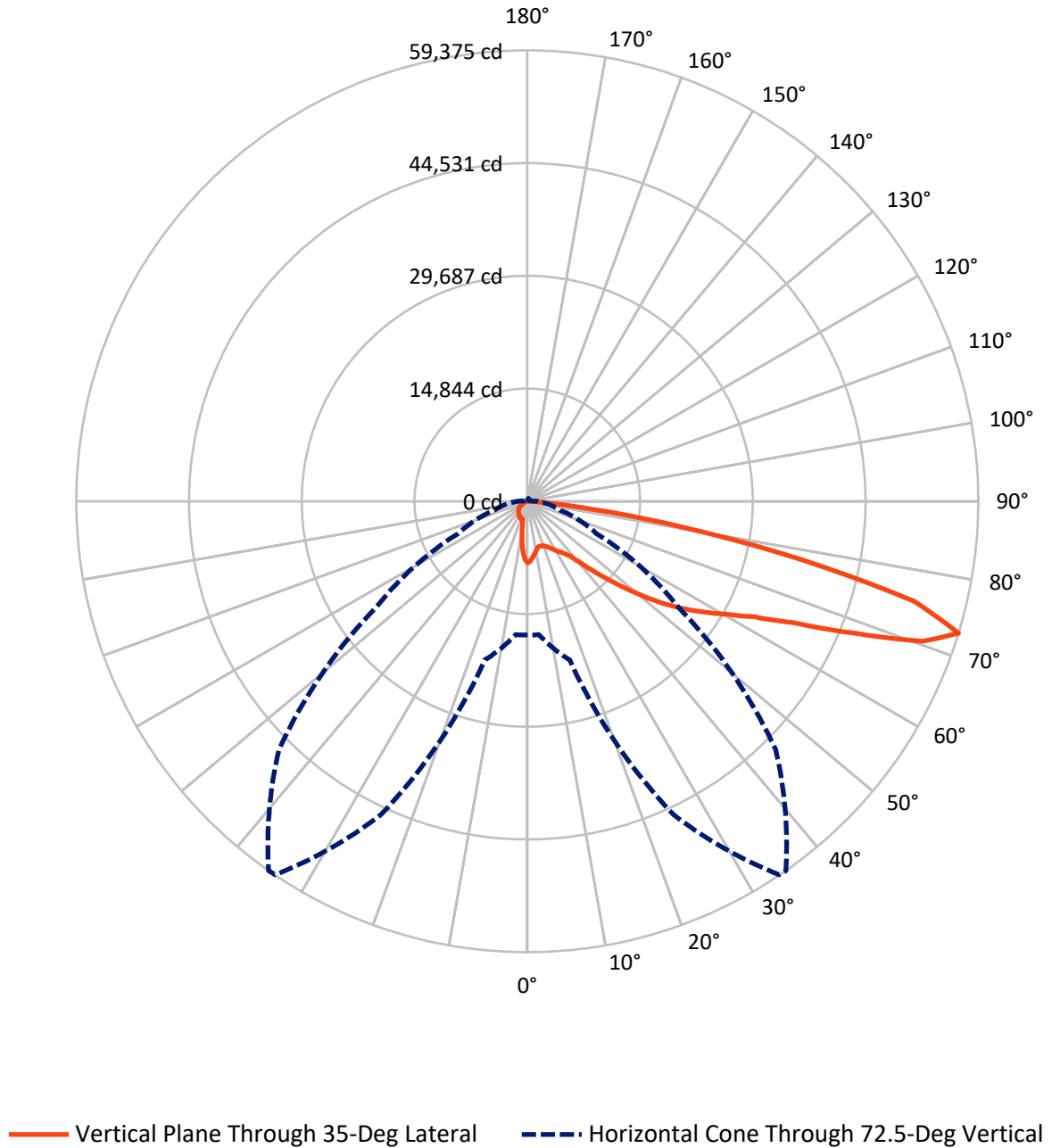
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6300.4	0.0	6300.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	49680.6	0.0	49680.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	55981.0	0.0	55981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.7	1.2
10°-20°	1559.7	2.8
20°-30°	2533.7	4.5
30°-40°	4227.4	7.6
40°-50°	7998.4	14.3
50°-60°	12709.5	22.7
60°-70°	15722.5	28.1
70°-80°	9773.2	17.5
80°-90°	789.8	1.4
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°	55981.0	100.0
0°-180°	55981.0	100.0

Coefficient of Utilization



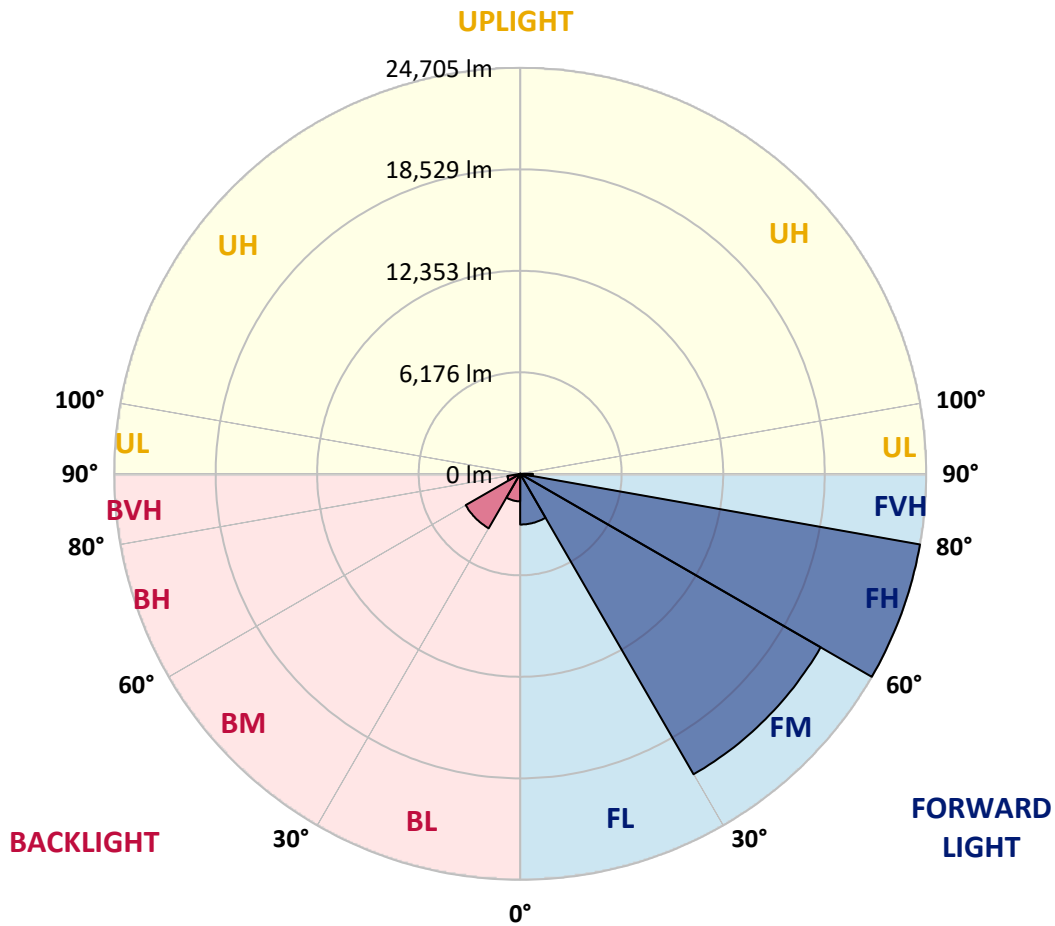
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.0	5.5			
FM (30°-60°)	21110.4	37.7			
FH (60°-80°)	24705.1	44.1			G5
FVH (80°-90°)	779.1	1.4			G5
BL (0°-30°)	1674.1	3.0	B3/2500		
BM (30°-60°)	3824.9	6.8	B3/5000		
BH (60°-80°)	790.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.0			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5
2.5°	7752.6	7818.2	7830.5	7851.0	7851.0	7875.6	7916.6	7974.1	8068.4	8117.6
5°	7145.5	7194.7	7256.2	7305.5	7399.8	7412.1	7572.1	7727.9	7945.3	8109.4
7.5°	6534.3	6591.7	6673.8	6792.7	6915.8	6952.7	7194.7	7457.2	7801.8	8109.4
10°	6103.6	6107.7	6181.5	6300.5	6497.4	6542.5	6837.8	7211.1	7641.8	8060.2
12.5°	5861.6	5890.3	5923.1	6013.4	6202.0	6230.8	6546.6	6985.5	7481.8	8031.5
15°	5861.6	5882.1	5902.6	5947.7	6099.5	6124.1	6403.0	6841.9	7399.8	8043.8
17.5°	5923.1	5955.9	5939.5	5992.9	6152.8	6169.2	6415.3	6800.9	7395.7	8121.7
20°	6070.8	6095.4	6062.6	6095.4	6255.4	6288.2	6542.5	6878.9	7465.4	8257.1
22.5°	6304.6	6316.9	6239.0	6263.6	6427.7	6468.7	6764.0	7100.4	7633.6	8474.5
25°	6599.9	6624.5	6505.6	6534.3	6690.2	6739.4	7079.8	7432.6	7900.2	8773.9
27.5°	6940.4	6952.7	6850.1	6846.0	7047.0	7116.8	7461.3	7842.8	8257.1	9151.3
30°	7330.1	7367.0	7268.5	7252.1	7506.4	7563.9	7904.3	8347.3	8782.1	9717.4
32.5°	7637.7	7666.4	7609.0	7650.0	7908.4	7953.6	8441.7	9061.1	9606.6	10521.3
35°	8080.7	8097.1	7965.9	8039.7	8335.0	8449.9	9175.9	10061.9	10644.4	11530.4
37.5°	9684.5	9684.5	9126.7	8761.6	9044.7	9147.2	10180.9	11321.2	11924.2	12884.0
40°	11903.7	11866.7	11050.5	10303.9	10267.0	10468.0	11612.4	12908.6	13577.2	14508.4
42.5°	14270.4	14213.0	13101.4	12363.1	12240.0	12309.7	13265.5	14865.2	15546.1	16489.6
45°	16370.6	16354.2	15336.9	14344.3	14122.8	14344.3	15328.7	17154.1	17642.2	18634.9
47.5°	18130.3	18130.3	17387.9	16739.8	16624.9	16756.2	18122.1	19693.1	19648.0	20919.6
50°	20156.7	20140.2	19434.7	19155.8	19274.7	19459.3	21338.0	22367.6	21723.6	23163.3
52.5°	21575.9	21674.3	21432.3	21387.2	21994.3	22314.2	24603.1	24984.6	23581.7	25292.2
55°	22699.8	22814.7	23093.6	23409.4	24578.5	24996.9	27765.6	27466.2	25136.3	27138.1
57.5°	24291.3	24127.3	24558.0	25181.5	27072.4	27577.0	30829.7	29808.4	26387.4	28635.2
60°	26223.3	26247.9	26321.8	27109.3	29562.3	30210.4	33848.7	32023.4	27191.4	29554.1
62.5°	28545.0	28581.9	28733.7	29943.7	32905.3	33516.5	37064.6	33836.4	27560.5	29295.6
65°	28385.0	28540.9	30235.0	34373.8	37987.5	38590.5	40817.8	35108.0	27002.7	26933.0
67.5°	25858.3	26112.6	28947.0	39665.2	45649.9	46322.6	45354.5	35358.2	24594.9	20944.2
70°	22543.9	22634.2	26042.9	44423.4	54522.2	55203.1	49415.4	32605.9	18663.6	11682.2
72.5°	17605.3	17625.8	21625.1	45526.8	59337.8	59374.8	46228.2	24205.2	10037.3	4487.5
75°	12576.4	12453.3	14483.7	36921.0	52204.7	52623.1	34656.8	11354.0	3835.3	2120.7
77.5°	6743.5	6878.9	8195.6	21895.8	36063.8	36777.5	18909.7	3273.3	1952.5	1443.9
80°	2083.8	2198.6	3359.4	10025.0	20427.4	20858.1	7010.1	1456.2	1361.8	1029.6
82.5°	656.3	680.9	1566.9	4212.6	8478.6	8675.5	2030.4	824.5	931.1	680.9
85°	188.7	192.8	697.3	1571.0	2096.1	2137.1	570.2	319.9	533.2	422.5
87.5°	20.5	65.6	262.5	262.5	184.6	180.5	61.5	69.7	151.8	53.3
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°
8113.5	0°	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5	8113.5
8150.4	2.5°	8129.9	8134.0	8080.7	7990.5	7892.0	7810.0	7707.4	7625.4	7568.0	7551.6
8224.3	5°	8187.4	8158.6	8006.9	7732.0	7403.9	7120.9	6805.0	6554.8	6390.7	6321.0
8302.2	7.5°	8273.5	8191.5	7859.2	7317.8	6690.2	6132.3	5566.3	5127.4	4848.4	4709.0
8376.0	10°	8347.3	8183.3	7613.1	6718.9	5759.0	4914.1	4151.1	3622.0	3326.6	3187.2
8462.2	12.5°	8417.1	8179.2	7293.1	6009.3	4709.0	3675.3	2965.7	2703.1	2621.1	2592.4
8601.6	15°	8548.3	8191.5	6891.2	5197.1	3663.0	2777.0	2518.6	2514.5	2530.9	2522.7
8814.9	17.5°	8728.8	8203.8	6435.9	4335.7	2826.2	2448.8	2436.5	2473.4	2498.0	2485.7
9081.6	20°	8962.6	8253.0	5951.8	3482.5	2428.3	2366.8	2395.5	2428.3	2448.8	2428.3
9438.4	22.5°	9290.8	8339.1	5422.7	2797.5	2301.2	2317.6	2342.2	2379.1	2399.6	2370.9
9893.7	25°	9692.7	8474.5	4901.7	2432.4	2239.6	2260.1	2297.1	2338.1	2362.7	2334.0
10468.0	27.5°	10213.7	8691.9	4421.8	2350.4	2178.1	2190.4	2243.7	2305.3	2338.1	2301.2
11284.3	30°	10968.4	9048.8	4007.5	2387.3	2141.2	2112.5	2186.3	2272.4	2309.4	2276.5
12395.9	32.5°	11969.3	9553.3	3753.2	2444.7	2124.8	2022.2	2092.0	2202.7	2264.2	2243.7
13848.0	35°	13281.9	10320.3	3654.8	2510.4	2112.5	1927.9	1977.1	2096.1	2202.7	2223.2
15677.4	37.5°	14873.4	11386.8	3683.5	2539.1	2075.6	1849.9	1874.6	1977.1	2116.6	2182.2
17736.5	40°	16682.4	12629.7	3847.6	2510.4	2034.5	1784.3	1788.4	1866.4	1989.4	2087.9
19951.6	42.5°	18548.7	14081.8	4151.1	2403.7	1997.6	1726.9	1714.6	1767.9	1849.9	1919.7
22162.5	45°	20324.8	15574.8	4450.5	2256.0	1952.5	1669.5	1640.8	1661.3	1677.7	1706.4
24316.0	47.5°	21875.3	16624.9	4364.4	2120.7	1891.0	1603.8	1554.6	1546.4	1497.2	1493.1
26239.7	50°	22945.9	16854.6	3876.3	1985.3	1800.7	1530.0	1452.1	1402.8	1316.7	1275.7
27679.5	52.5°	23286.4	15948.1	3166.7	1849.9	1653.1	1431.6	1320.8	1242.9	1136.2	1099.3
28508.1	55°	22835.2	14172.0	2530.9	1685.9	1448.0	1300.3	1177.2	1074.7	988.6	943.4
28598.3	57.5°	21731.8	11911.9	2001.7	1493.1	1230.6	1152.6	1029.6	927.0	853.2	808.1
27597.5	60°	19902.3	9458.9	1583.3	1263.4	1050.1	992.7	865.5	799.9	734.2	680.9
25013.3	62.5°	17125.4	6751.7	1242.9	1000.9	877.8	812.2	738.3	689.1	611.2	537.3
20365.8	65°	13363.9	4130.6	959.8	734.2	705.5	672.7	627.6	582.5	488.1	414.3
13286.0	67.5°	8429.4	1956.6	685.0	553.8	557.9	541.4	520.9	484.0	414.3	348.7
5951.8	70°	3712.2	947.5	451.2	422.5	414.3	414.3	430.7	418.4	352.8	291.2
2067.3	72.5°	1263.4	508.6	336.4	319.9	299.4	295.3	361.0	348.7	283.0	225.6
1029.6	75°	660.4	340.5	246.1	229.7	180.5	217.4	287.1	270.7	201.0	147.7
680.9	77.5°	430.7	242.0	168.2	147.7	102.5	143.6	213.3	188.7	119.0	73.8
447.1	80°	270.7	160.0	98.4	69.7	49.2	77.9	114.9	82.0	45.1	16.4
262.5	82.5°	143.6	82.0	36.9	24.6	20.5	24.6	28.7	20.5	8.2	0.0
135.4	85°	57.4	28.7	12.3	8.2	4.1	0.0	8.2	4.1	0.0	0.0
24.6	87.5°	20.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
8113.5
7580.3
6345.6
4729.5
3191.3
2584.2
2518.6
2481.6
2424.2
2366.8
2329.9
2301.2
2272.4
2243.7
2223.2
2198.6
2120.7
1948.4
1722.8
1489.0
1279.8
1095.2
943.4
799.9
668.6
525.0
402.0
340.5
278.9
213.3
135.4
65.6
12.3
0.0
0.0
0.0
0.0

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