

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: P944748

Luminaire Tested: **GALN-SB9D-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944748
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-SB9D-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 63058 lumens
Efficiency: N/A
Efficacy: 95.8 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

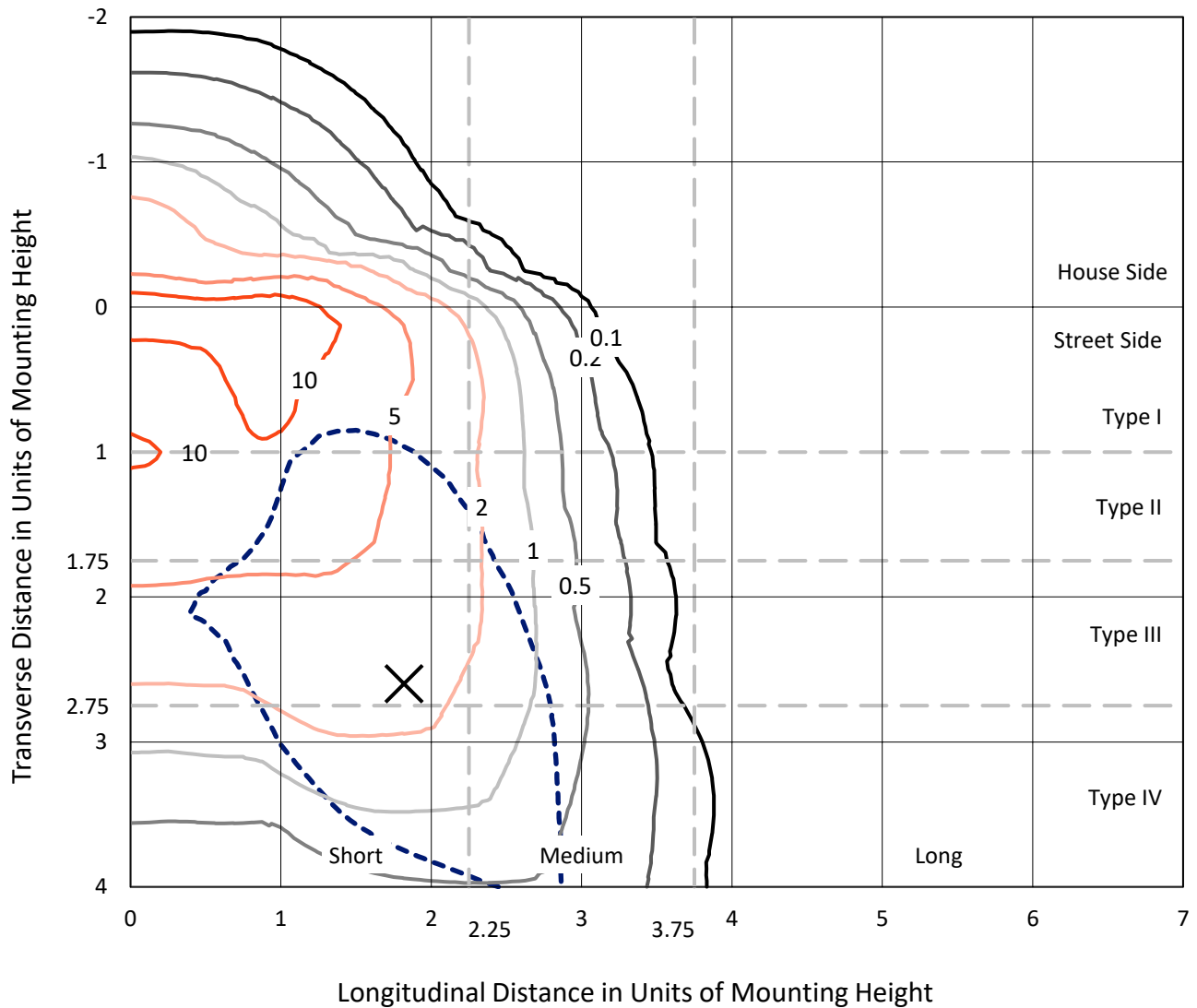
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

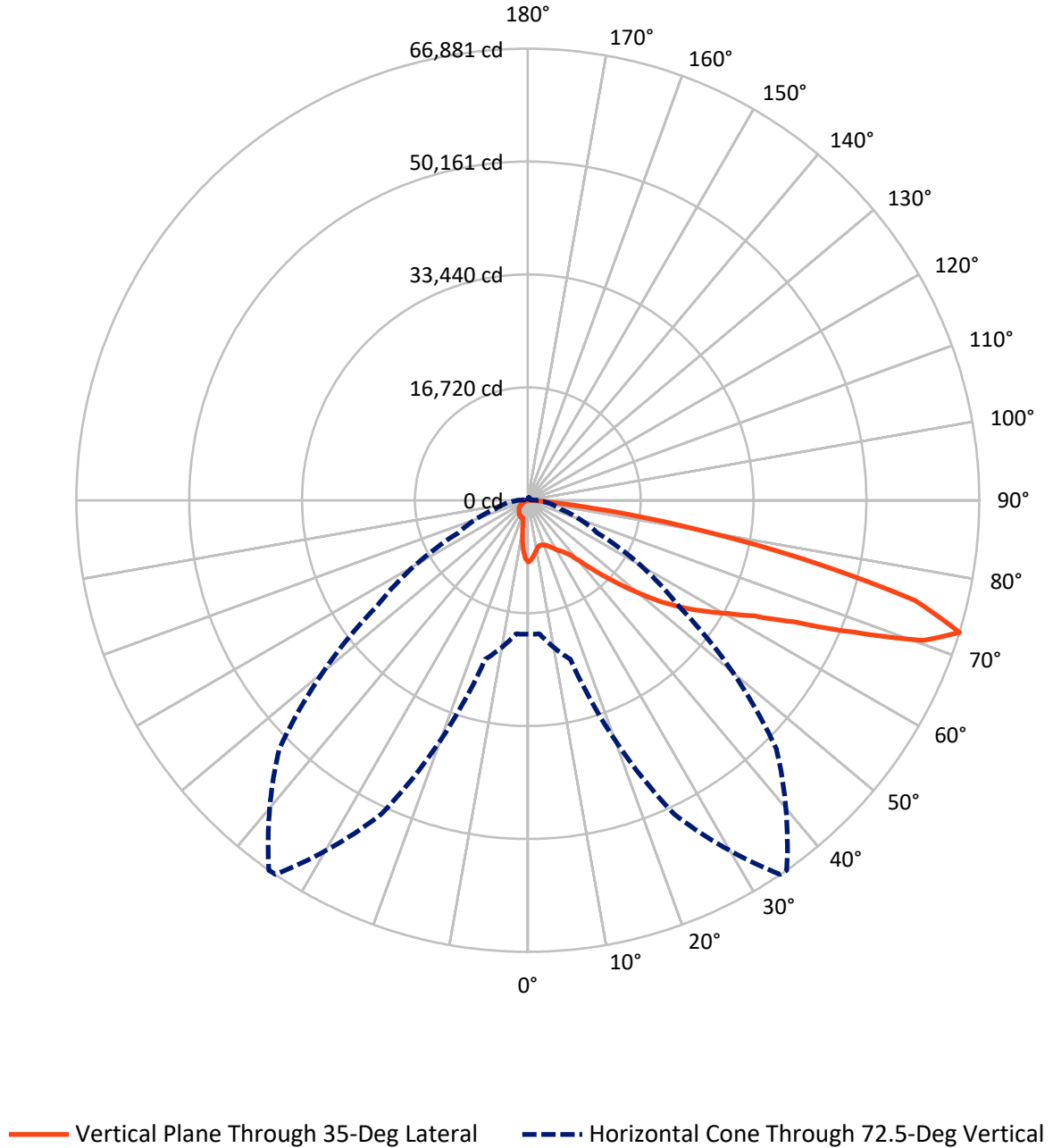
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	7096.9	0.0	7096.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	55961.1	0.0	55961.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	63058.0	0.0	63058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.0	1.2
10°-20°	1756.9	2.8
20°-30°	2854.0	4.5
30°-40°	4761.9	7.6
40°-50°	9009.6	14.3
50°-60°	14316.2	22.7
60°-70°	17710.1	28.1
70°-80°	11008.7	17.5
80°-90°	889.7	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°	63058.0	100.0
0°-180°	63058.0	100.0

Coefficient of Utilization



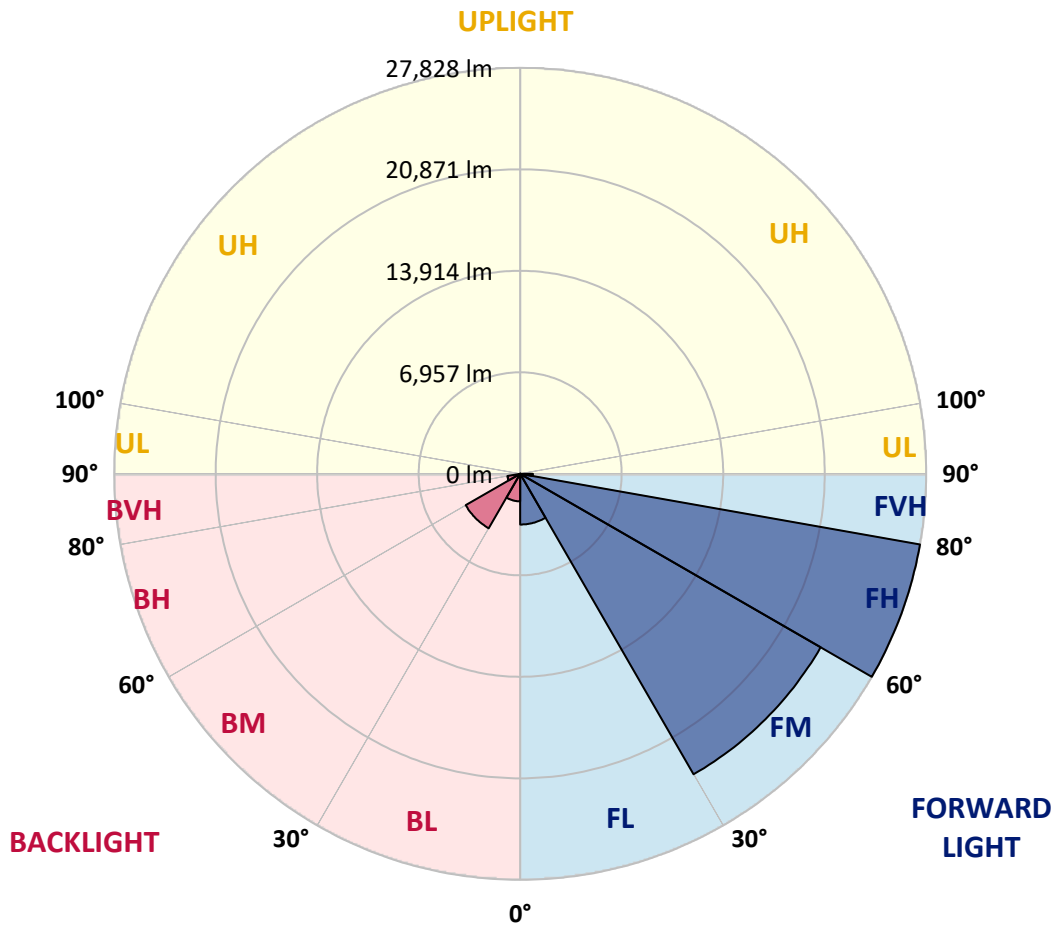
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3476.1	5.5			
FM (30°-60°)	23779.2	37.7			
FH (60°-80°)	27828.3	44.1			G5
FVH (80°-90°)	877.6	1.4			G5
BL (0°-30°)	1885.8	3.0	B3/2500		
BM (30°-60°)	4308.4	6.8	B3/5000		
BH (60°-80°)	890.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	12.1	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°	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2
2.5°	8732.6	8806.5	8820.4	8843.5	8843.5	8871.2	8917.4	8982.1	9088.4	9143.8
5°	8048.8	8104.2	8173.5	8229.0	8335.3	8349.1	8529.3	8704.9	8949.8	9134.6
7.5°	7360.4	7425.0	7517.4	7651.4	7790.1	7831.6	8104.2	8399.9	8788.1	9134.6
10°	6875.2	6879.8	6963.0	7097.0	7318.8	7369.6	7702.3	8122.7	8607.9	9079.2
12.5°	6602.6	6634.9	6671.9	6773.6	6986.1	7018.4	7374.2	7868.6	8427.7	9046.8
15°	6602.6	6625.7	6648.8	6699.6	6870.6	6898.3	7212.5	7706.9	8335.3	9060.7
17.5°	6671.9	6708.9	6690.4	6750.5	6930.7	6949.1	7226.4	7660.7	8330.6	9148.5
20°	6838.2	6866.0	6829.0	6866.0	7046.2	7083.1	7369.6	7748.5	8409.2	9300.9
22.5°	7101.6	7115.5	7027.7	7055.4	7240.2	7286.4	7619.1	7998.0	8598.6	9545.8
25°	7434.3	7462.0	7328.0	7360.4	7535.9	7591.4	7974.9	8372.2	8899.0	9883.1
27.5°	7817.8	7831.6	7716.1	7711.5	7937.9	8016.5	8404.6	8834.3	9300.9	10308.2
30°	8256.7	8298.3	8187.4	8168.9	8455.4	8520.1	8903.6	9402.6	9892.3	10945.8
32.5°	8603.2	8635.6	8570.9	8617.1	8908.2	8959.0	9508.9	10206.5	10821.1	11851.4
35°	9102.3	9120.7	8972.9	9056.1	9388.7	9518.1	10335.9	11333.9	11990.0	12988.0
37.5°	10908.8	10908.8	10280.5	9869.2	10188.1	10303.6	11467.9	12752.4	13431.6	14512.8
40°	13408.5	13366.9	12447.4	11606.5	11564.9	11791.3	13080.4	14540.5	15293.6	16342.5
42.5°	16074.5	16009.8	14757.7	13926.0	13787.4	13865.9	14942.5	16744.5	17511.4	18574.1
45°	18440.2	18421.7	17275.8	16157.7	15908.2	16157.7	17266.6	19322.7	19872.5	20990.6
47.5°	20422.3	20422.3	19586.0	18856.0	18726.6	18874.5	20413.1	22182.7	22131.9	23564.2
50°	22704.8	22686.3	21891.6	21577.4	21711.4	21919.3	24035.5	25195.2	24469.8	26091.6
52.5°	24303.5	24414.4	24141.8	24090.9	24774.8	25135.2	27713.4	28143.1	26562.9	28489.6
55°	25569.5	25698.9	26013.0	26368.8	27685.6	28156.9	31275.7	30938.4	28314.0	30568.8
57.5°	27362.2	27177.4	27662.5	28364.8	30494.9	31063.2	34727.2	33576.7	29723.3	32255.2
60°	29538.4	29566.2	29649.3	30536.4	33299.5	34029.5	38127.8	36071.7	30628.9	33290.2
62.5°	32153.6	32195.2	32366.1	33729.2	37065.1	37753.6	41750.2	38114.0	31044.7	32999.1
65°	31973.4	32149.0	34057.2	38719.2	42789.8	43469.0	45977.9	39546.3	30416.3	30337.8
67.5°	29127.2	29413.7	32606.4	44679.6	51420.8	52178.6	51088.1	39828.1	27704.1	23591.9
70°	25393.9	25495.6	29335.1	50039.3	61414.8	62181.8	55662.4	36727.8	21023.0	13159.0
72.5°	19830.9	19854.0	24358.9	51282.2	66839.2	66880.8	52072.3	27265.2	11306.2	5054.8
75°	14166.3	14027.6	16314.8	41588.5	58804.3	59275.5	39038.0	12789.4	4320.1	2388.8
77.5°	7596.0	7748.5	9231.6	24663.9	40622.9	41426.8	21300.2	3687.1	2199.3	1626.4
80°	2347.2	2476.6	3784.1	11292.3	23009.8	23494.9	7896.3	1640.3	1534.0	1159.7
82.5°	739.3	767.0	1765.0	4745.2	9550.4	9772.2	2287.1	928.7	1048.8	767.0
85°	212.5	217.2	785.5	1769.6	2361.0	2407.2	642.2	360.4	600.7	475.9
87.5°	23.1	73.9	295.7	295.7	207.9	203.3	69.3	78.5	171.0	60.1
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°
9139.2	0°	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2	9139.2
9180.8	2.5°	9157.7	9162.3	9102.3	9000.6	8889.7	8797.3	8681.8	8589.4	8524.7	8506.2
9264.0	5°	9222.4	9190.0	9019.1	8709.5	8339.9	8021.1	7665.3	7383.5	7198.6	7120.1
9351.8	7.5°	9319.4	9227.0	8852.8	8242.9	7535.9	6907.5	6269.9	5775.5	5461.4	5304.3
9434.9	10°	9402.6	9217.8	8575.5	7568.3	6487.1	5535.3	4675.9	4079.8	3747.2	3590.1
9532.0	12.5°	9481.1	9213.1	8215.1	6768.9	5304.3	4139.9	3340.6	3044.9	2952.5	2920.1
9689.1	15°	9629.0	9227.0	7762.3	5854.1	4126.0	3128.0	2836.9	2832.3	2850.8	2841.6
9929.3	17.5°	9832.3	9240.9	7249.5	4883.8	3183.5	2758.4	2744.5	2786.1	2813.8	2800.0
10229.6	20°	10095.6	9296.3	6704.2	3922.7	2735.3	2666.0	2698.3	2735.3	2758.4	2735.3
10631.6	22.5°	10465.3	9393.3	6108.2	3151.1	2592.1	2610.5	2638.3	2679.9	2703.0	2670.6
11144.5	25°	10918.1	9545.8	5521.4	2739.9	2522.8	2545.9	2587.4	2633.6	2661.4	2629.0
11791.3	27.5°	11504.9	9790.7	4980.8	2647.5	2453.5	2467.3	2527.4	2596.7	2633.6	2592.1
12710.8	30°	12355.0	10192.7	4514.2	2689.1	2411.9	2379.5	2462.7	2559.7	2601.3	2564.3
13963.0	32.5°	13482.4	10761.0	4227.7	2753.8	2393.4	2277.9	2356.4	2481.2	2550.5	2527.4
15598.6	35°	14961.0	11625.0	4116.8	2827.7	2379.5	2171.6	2227.0	2361.0	2481.2	2504.3
17659.3	37.5°	16753.7	12826.3	4149.1	2860.0	2337.9	2083.8	2111.5	2227.0	2384.1	2458.1
19978.8	40°	18791.3	14226.3	4334.0	2827.7	2291.7	2009.9	2014.5	2102.3	2240.9	2351.8
22473.8	42.5°	20893.6	15861.9	4675.9	2707.6	2250.2	1945.2	1931.3	1991.4	2083.8	2162.4
24964.2	45°	22894.3	17543.8	5013.2	2541.2	2199.3	1880.5	1848.2	1871.3	1889.8	1922.1
27389.9	47.5°	24640.8	18726.6	4916.1	2388.8	2130.0	1806.6	1751.1	1741.9	1686.5	1681.8
29556.9	50°	25846.7	18985.4	4366.3	2236.3	2028.4	1723.4	1635.6	1580.2	1483.2	1437.0
31178.7	52.5°	26230.2	17964.2	3567.0	2083.8	1862.0	1612.5	1487.8	1400.0	1279.9	1238.3
32112.0	55°	25722.0	15963.6	2850.8	1899.0	1631.0	1464.7	1326.1	1210.6	1113.5	1062.7
32213.7	57.5°	24479.1	13417.7	2254.8	1681.8	1386.1	1298.3	1159.7	1044.2	961.1	910.2
31086.3	60°	22418.3	10654.7	1783.5	1423.1	1182.8	1118.1	974.9	901.0	827.1	767.0
28175.4	62.5°	19290.3	7605.2	1400.0	1127.4	988.8	914.8	831.7	776.2	688.4	605.3
22940.5	65°	15053.4	4652.8	1081.2	827.1	794.7	757.8	706.9	656.1	549.8	466.7
14965.6	67.5°	9495.0	2203.9	771.6	623.8	628.4	609.9	586.8	545.2	466.7	392.7
6704.2	70°	4181.5	1067.3	508.2	475.9	466.7	466.7	485.1	471.3	397.4	328.1
2328.7	72.5°	1423.1	572.9	378.9	360.4	337.3	332.7	406.6	392.7	318.8	254.1
1159.7	75°	743.9	383.5	277.2	258.7	203.3	244.9	323.4	304.9	226.4	166.3
767.0	77.5°	485.1	272.6	189.4	166.3	115.5	161.7	240.3	212.5	134.0	83.2
503.6	80°	304.9	180.2	110.9	78.5	55.4	87.8	129.4	92.4	50.8	18.5
295.7	82.5°	161.7	92.4	41.6	27.7	23.1	27.7	32.3	23.1	9.2	0.0
152.5	85°	64.7	32.3	13.9	9.2	4.6	0.0	9.2	4.6	0.0	0.0
27.7	87.5°	23.1	4.6	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°
9139.2
8538.6
7147.8
5327.4
3594.7
2910.9
2836.9
2795.4
2730.7
2666.0
2624.4
2592.1
2559.7
2527.4
2504.3
2476.6
2388.8
2194.7
1940.6
1677.2
1441.6
1233.7
1062.7
901.0
753.1
591.4
452.8
383.5
314.2
240.3
152.5
73.9
13.9
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