

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: P944238

Luminaire Tested: **GALN-SB9A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944238
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-SB9A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA 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: 27797 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

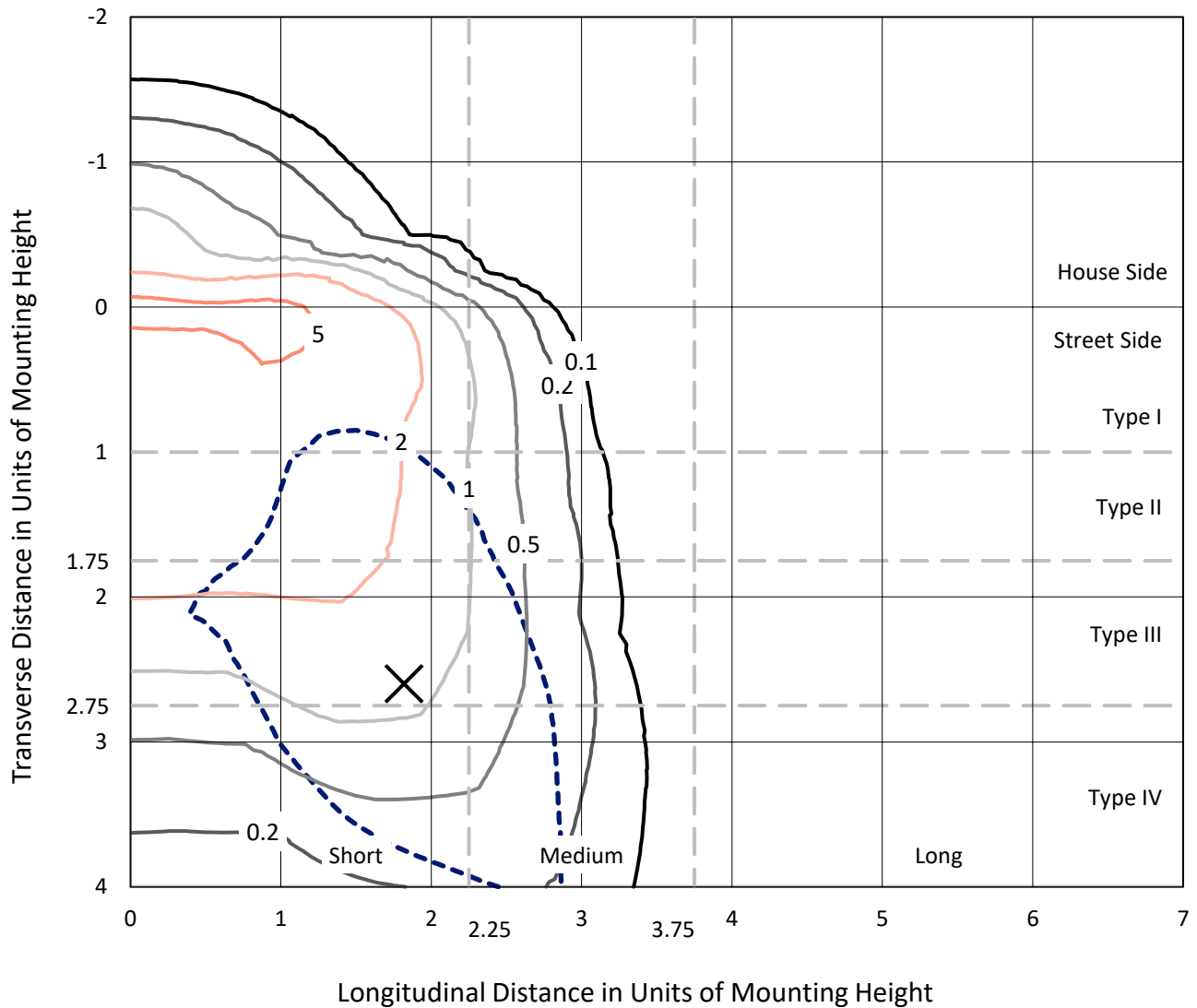
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

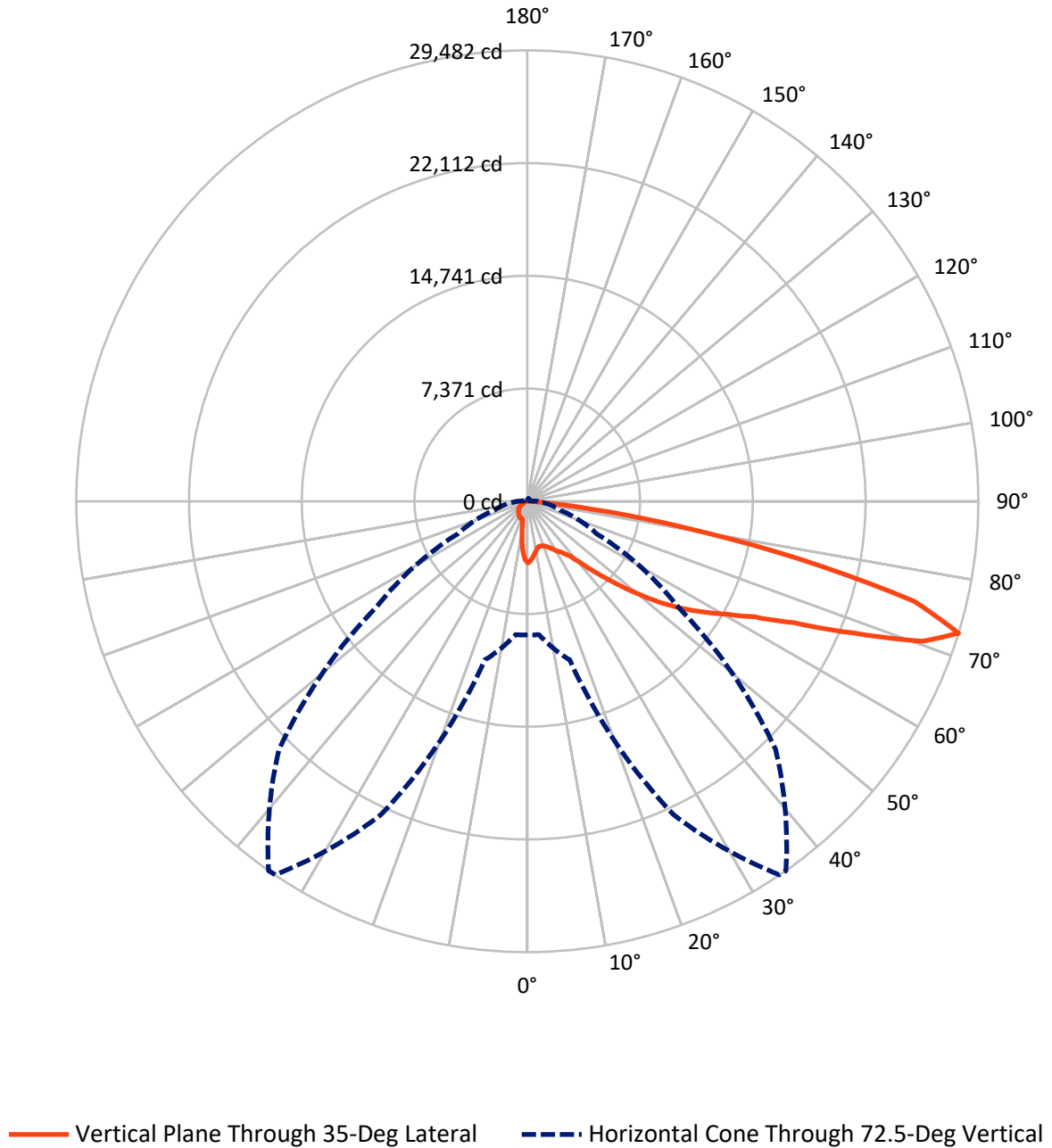
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3128.4	0.0	3128.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	24668.6	0.0	24668.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	27797.0	0.0	27797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	1.2
10°-20°	774.5	2.8
20°-30°	1258.1	4.5
30°-40°	2099.1	7.6
40°-50°	3971.6	14.3
50°-60°	6310.8	22.7
60°-70°	7806.9	28.1
70°-80°	4852.8	17.5
80°-90°	392.2	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°	27797.0	100.0
0°-180°	27797.0	100.0

Coefficient of Utilization



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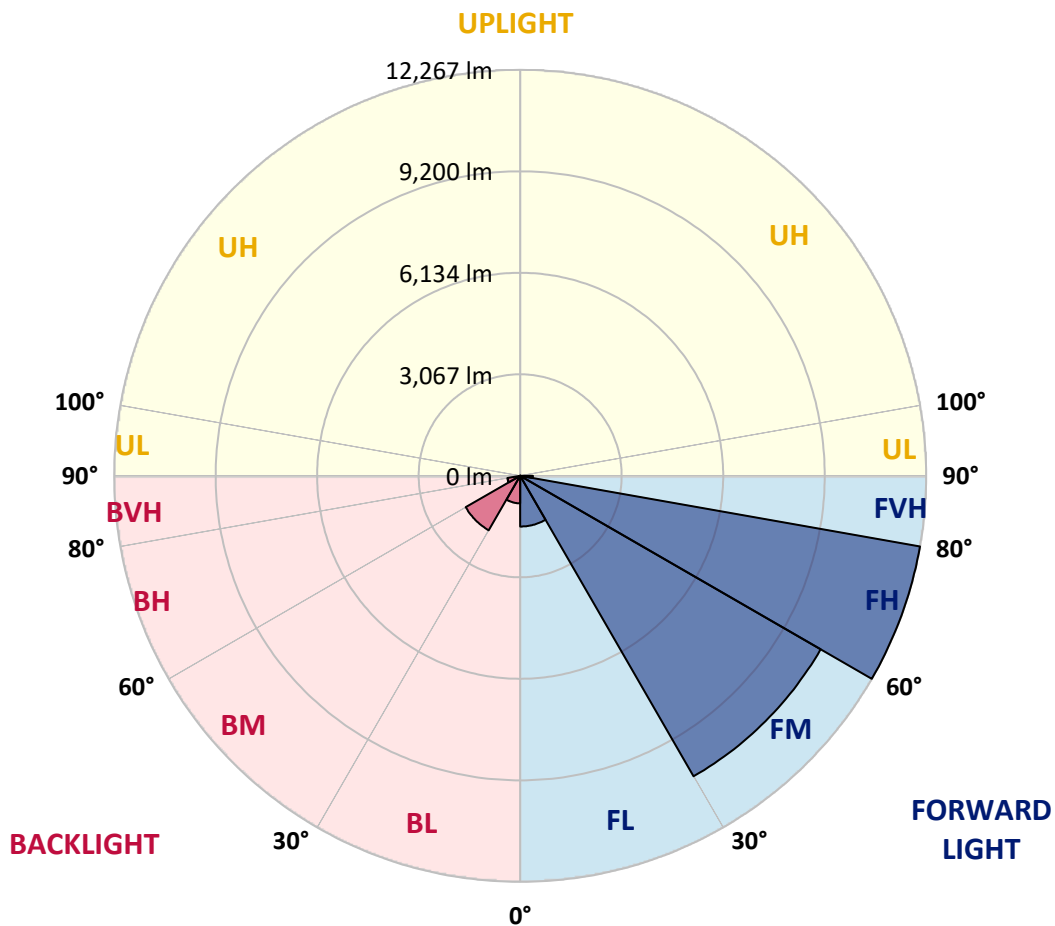
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.3	5.5			
FM (30°-60°)	10482.2	37.7			
FH (60°-80°)	12267.2	44.1			G5
FVH (80°-90°)	386.9	1.4			G3/500
BL (0°-30°)	831.3	3.0	B2/1000		
BM (30°-60°)	1899.2	6.8	B2/2500		
BH (60°-80°)	392.6	1.4	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7
2.5°	3849.5	3882.1	3888.2	3898.4	3898.4	3910.6	3931.0	3959.5	4006.3	4030.8
5°	3548.0	3572.5	3603.0	3627.5	3674.3	3680.4	3759.9	3837.3	3945.2	4026.7
7.5°	3244.6	3273.1	3313.8	3372.9	3434.0	3452.3	3572.5	3702.8	3873.9	4026.7
10°	3030.7	3032.7	3069.4	3128.5	3226.2	3248.6	3395.3	3580.6	3794.5	4002.2
12.5°	2910.5	2924.8	2941.1	2985.9	3079.6	3093.8	3250.7	3468.6	3715.1	3988.0
15°	2910.5	2920.7	2930.9	2953.3	3028.7	3040.9	3179.4	3397.3	3674.3	3994.1
17.5°	2941.1	2957.4	2949.2	2975.7	3055.1	3063.3	3185.5	3377.0	3672.3	4032.8
20°	3014.4	3026.6	3010.3	3026.6	3106.1	3122.4	3248.6	3415.7	3706.9	4100.0
22.5°	3130.5	3136.6	3097.9	3110.1	3191.6	3212.0	3358.6	3525.6	3790.4	4208.0
25°	3277.2	3289.4	3230.3	3244.6	3322.0	3346.4	3515.5	3690.6	3922.8	4356.6
27.5°	3446.2	3452.3	3401.4	3399.4	3499.2	3533.8	3704.9	3894.3	4100.0	4544.0
30°	3639.7	3658.0	3609.1	3601.0	3727.3	3755.8	3924.8	4144.8	4360.7	4825.1
32.5°	3792.5	3806.7	3778.2	3798.6	3926.9	3949.3	4191.7	4499.2	4770.1	5224.3
35°	4012.4	4020.6	3955.4	3992.1	4138.7	4195.7	4556.2	4996.2	5285.4	5725.3
37.5°	4808.8	4808.8	4531.8	4350.5	4491.1	4542.0	5055.2	5621.5	5920.9	6397.5
40°	5910.7	5892.4	5487.0	5116.3	5098.0	5197.8	5766.1	6409.7	6741.7	7204.0
42.5°	7085.9	7057.4	6505.4	6138.8	6077.7	6112.3	6586.9	7381.2	7719.3	8187.8
45°	8128.7	8120.6	7615.5	7122.6	7012.6	7122.6	7611.4	8517.7	8760.1	9253.0
47.5°	9002.5	9002.5	8633.8	8312.0	8255.0	8320.2	8998.4	9778.5	9756.1	10387.5
50°	10008.7	10000.5	9650.2	9511.7	9570.7	9662.4	10595.2	11106.5	10786.7	11501.6
52.5°	10713.4	10762.3	10642.1	10619.7	10921.1	11080.0	12216.5	12405.9	11709.4	12558.7
55°	11271.4	11328.5	11467.0	11623.8	12204.3	12412.0	13786.8	13638.2	12481.3	13475.2
57.5°	12061.7	11980.2	12194.1	12503.7	13442.6	13693.2	15308.3	14801.2	13102.5	14218.6
60°	13021.0	13033.2	13069.9	13461.0	14679.0	15000.8	16807.4	15901.0	13501.7	14674.9
62.5°	14173.8	14192.2	14267.5	14868.4	16338.9	16642.4	18404.2	16801.3	13685.0	14546.6
65°	14094.4	14171.8	15013.0	17068.1	18862.5	19161.9	20267.8	17432.7	13408.0	13373.4
67.5°	12839.8	12966.0	14373.4	19695.5	22667.1	23001.2	22520.5	17556.9	12212.4	10399.7
70°	11194.0	11238.9	12931.4	22058.1	27072.7	27410.8	24536.9	16190.2	9267.3	5800.7
72.5°	8741.8	8752.0	10737.8	22606.0	29463.8	29482.1	22954.3	12018.9	4984.0	2228.2
75°	6244.7	6183.6	7191.8	18332.9	25921.9	26129.6	17208.6	5637.8	1904.4	1053.0
77.5°	3348.4	3415.7	4069.5	10872.2	17907.2	18261.6	9389.5	1625.3	969.5	716.9
80°	1034.7	1091.7	1668.1	4977.8	10143.1	10356.9	3480.8	723.1	676.2	511.2
82.5°	325.9	338.1	778.0	2091.8	4210.0	4307.8	1008.2	409.4	462.3	338.1
85°	93.7	95.7	346.2	780.1	1040.8	1061.2	283.1	158.9	264.8	209.8
87.5°	10.2	32.6	130.4	130.4	91.7	89.6	30.6	34.6	75.4	26.5
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°
4028.7	0°	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7	4028.7
4047.0	2.5°	4036.9	4038.9	4012.4	3967.6	3918.7	3878.0	3827.1	3786.3	3757.8	3749.7
4083.7	5°	4065.4	4051.1	3975.8	3839.3	3676.4	3535.8	3379.0	3254.7	3173.3	3138.7
4122.4	7.5°	4108.2	4067.4	3902.4	3633.6	3322.0	3045.0	2763.9	2546.0	2407.5	2338.2
4159.1	10°	4144.8	4063.3	3780.2	3336.2	2859.6	2440.0	2061.2	1798.5	1651.8	1582.6
4201.8	12.5°	4179.4	4061.3	3621.4	2983.9	2338.2	1824.9	1472.6	1342.2	1301.5	1287.2
4271.1	15°	4244.6	4067.4	3421.8	2580.6	1818.8	1378.9	1250.6	1248.5	1256.7	1252.6
4377.0	17.5°	4334.2	4073.5	3195.7	2152.9	1403.3	1215.9	1209.8	1228.2	1240.4	1234.3
4509.4	20°	4450.3	4098.0	2955.3	1729.2	1205.8	1175.2	1189.5	1205.8	1215.9	1205.8
4686.6	22.5°	4613.3	4140.7	2692.6	1389.1	1142.6	1150.8	1163.0	1181.3	1191.5	1177.2
4912.7	25°	4812.9	4208.0	2433.9	1207.8	1112.1	1122.3	1140.6	1161.0	1173.2	1158.9
5197.8	27.5°	5071.5	4315.9	2195.6	1167.1	1081.5	1087.6	1114.1	1144.7	1161.0	1142.6
5603.1	30°	5446.3	4493.1	1989.9	1185.4	1063.2	1048.9	1085.6	1128.4	1146.7	1130.4
6155.1	32.5°	5943.3	4743.6	1863.6	1213.9	1055.0	1004.1	1038.7	1093.7	1124.3	1114.1
6876.1	35°	6595.0	5124.5	1814.8	1246.5	1048.9	957.3	981.7	1040.8	1093.7	1103.9
7784.5	37.5°	7385.3	5654.1	1829.0	1260.8	1030.6	918.6	930.8	981.7	1051.0	1083.6
8807.0	40°	8283.5	6271.2	1910.5	1246.5	1010.2	886.0	888.0	926.7	987.8	1036.7
9906.8	42.5°	9210.2	6992.2	2061.2	1193.5	991.9	857.5	851.4	877.8	918.6	953.2
11004.6	45°	10092.2	7733.6	2209.9	1120.2	969.5	829.0	814.7	824.9	833.0	847.3
12073.9	47.5°	10862.1	8255.0	2167.1	1053.0	938.9	796.4	771.9	767.9	743.4	741.4
13029.2	50°	11393.7	8369.1	1924.7	985.8	894.1	759.7	721.0	696.6	653.8	633.4
13744.1	52.5°	11562.7	7918.9	1572.4	918.6	820.8	710.8	655.8	617.1	564.2	545.9
14155.5	55°	11338.7	7037.0	1256.7	837.1	719.0	645.7	584.6	533.6	490.9	468.5
14200.3	57.5°	10790.8	5914.8	993.9	741.4	611.0	572.3	511.2	460.3	423.6	401.2
13703.3	60°	9882.4	4696.8	786.2	627.3	521.4	492.9	429.8	397.2	364.6	338.1
12420.2	62.5°	8503.5	3352.5	617.1	497.0	435.9	403.3	366.6	342.2	303.5	266.8
10112.5	65°	6635.8	2051.0	476.6	364.6	350.3	334.0	311.6	289.2	242.4	205.7
6597.1	67.5°	4185.5	971.5	340.1	275.0	277.0	268.9	258.7	240.3	205.7	173.1
2955.3	70°	1843.3	470.5	224.0	209.8	205.7	205.7	213.9	207.7	175.2	144.6
1026.5	72.5°	627.3	252.6	167.0	158.9	148.7	146.6	179.2	173.1	140.5	112.0
511.2	75°	327.9	169.1	122.2	114.1	89.6	107.9	142.6	134.4	99.8	73.3
338.1	77.5°	213.9	120.2	83.5	73.3	50.9	71.3	105.9	93.7	59.1	36.7
222.0	80°	134.4	79.4	48.9	34.6	24.4	38.7	57.0	40.7	22.4	8.1
130.4	82.5°	71.3	40.7	18.3	12.2	10.2	12.2	14.3	10.2	4.1	0.0
67.2	85°	28.5	14.3	6.1	4.1	2.0	0.0	4.1	2.0	0.0	0.0
12.2	87.5°	10.2	2.0	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°
4028.7
3763.9
3150.9
2348.4
1584.6
1283.2
1250.6
1232.2
1203.7
1175.2
1156.9
1142.6
1128.4
1114.1
1103.9
1091.7
1053.0
967.5
855.4
739.3
635.5
543.8
468.5
397.2
332.0
260.7
199.6
169.1
138.5
105.9
67.2
32.6
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