

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: P943344

Luminaire Tested: **GALN-SB7D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943344
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-SB7D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 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: 55909 lumens
Efficiency: N/A
Efficacy: 109.0 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

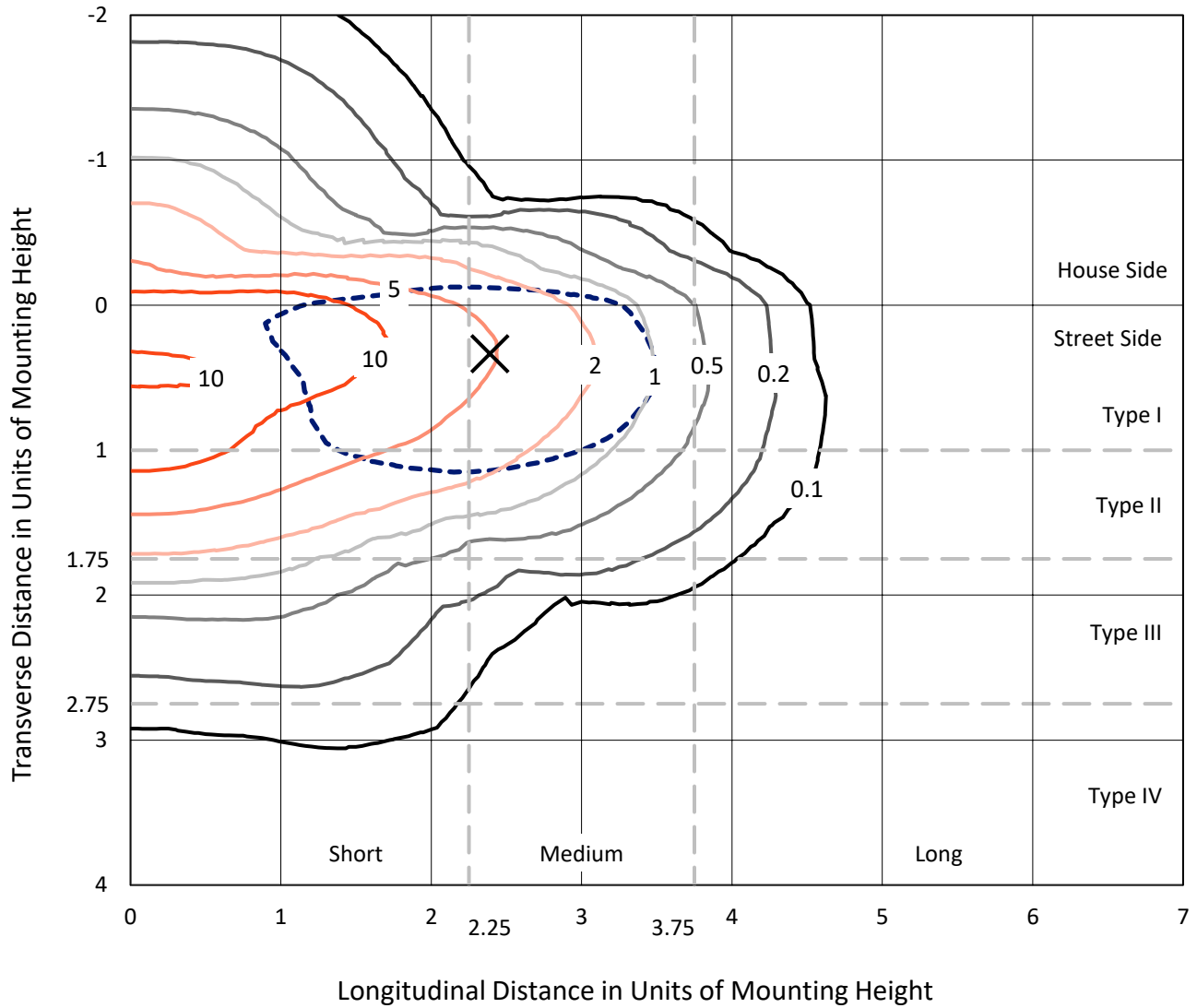
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

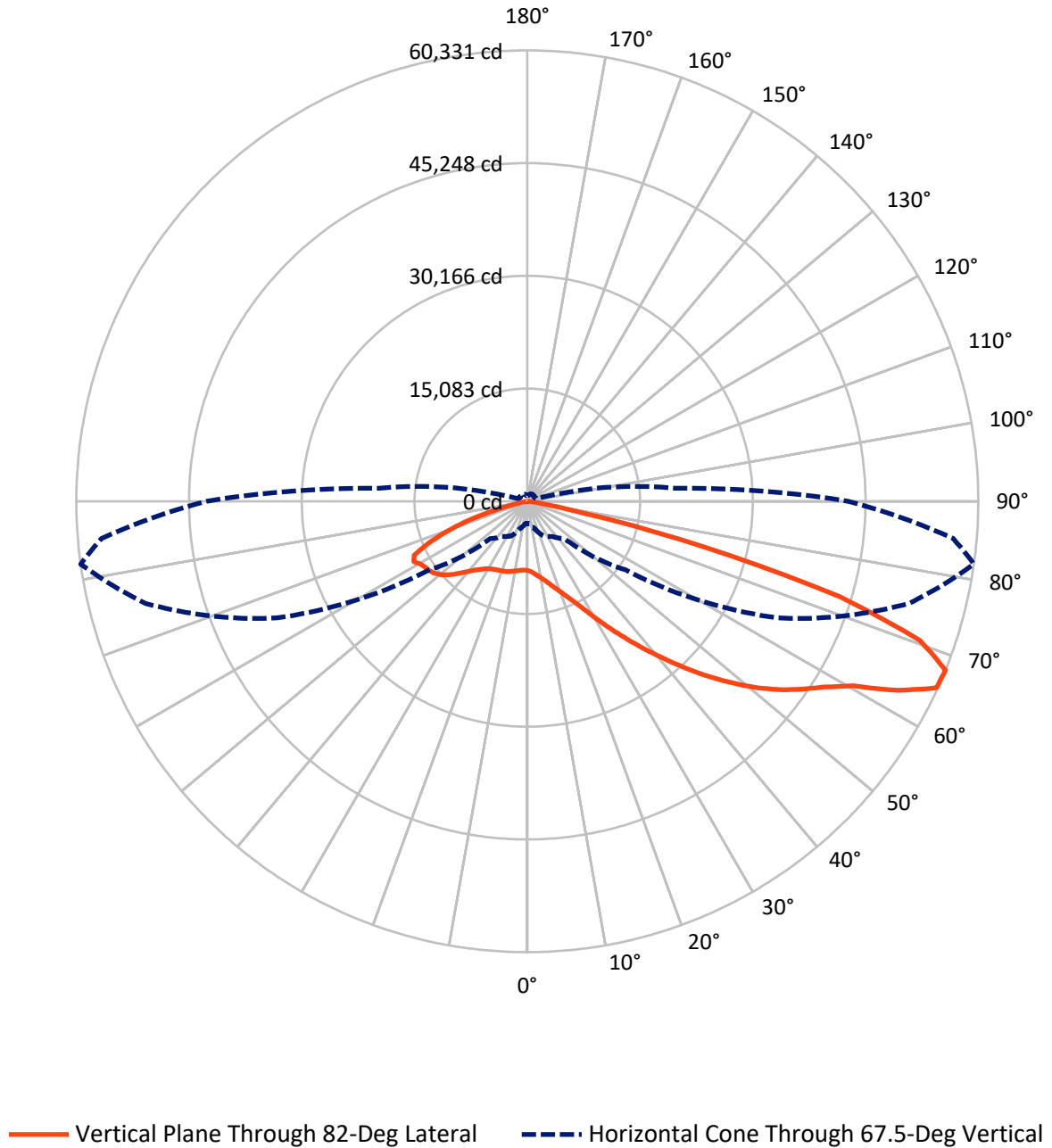
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10127.4	0.0	10127.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	45781.6	0.0	45781.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	55909.0	0.0	55909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.2	1.5
10°-20°	2144.4	3.8
20°-30°	3434.6	6.1
30°-40°	6073.4	10.9
40°-50°	10641.1	19.0
50°-60°	14192.3	25.4
60°-70°	13212.3	23.6
70°-80°	5070.9	9.1
80°-90°	315.0	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°	55909.0	100.0
0°-180°	55909.0	100.0

Coefficient of Utilization



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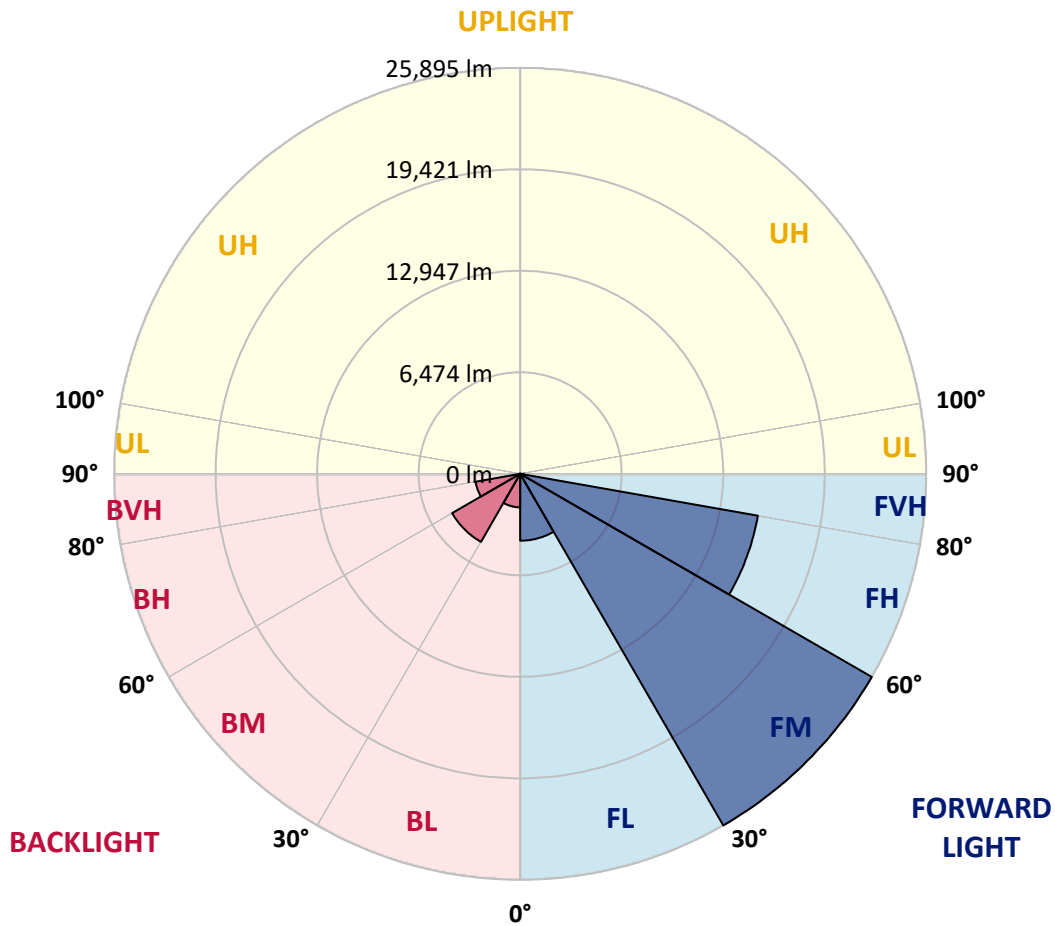
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4265.2	7.6			
FM (30°-60°)	25894.8	46.3			
FH (60°-80°)	15392.6	27.5			G5
FVH (80°-90°)	229.0	0.4			G3/500
BL (0°-30°)	2138.9	3.8	B3/2500		
BM (30°-60°)	5012.0	9.0	B4/8500		
BH (60°-80°)	2890.6	5.2	B4/5000		G4/5000
BVH (80°-90°)	86.0	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°	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2
2.5°	9789.5	9845.9	9813.7	9797.6	9769.4	9729.2	9697.0	9596.3	9491.7	9423.2
5°	9986.8	10043.1	10039.1	10055.2	10075.3	10087.4	10079.4	9966.7	9817.7	9701.0
7.5°	9817.7	9882.1	9934.5	10015.0	10155.8	10304.8	10377.2	10353.1	10200.1	10039.1
10°	9338.7	9407.1	9531.9	9721.1	10019.0	10341.0	10610.7	10735.5	10638.9	10461.8
12.5°	8461.2	8529.6	8775.2	9185.7	9684.9	10244.4	10759.6	11093.7	11117.9	10940.8
15°	7475.0	7543.4	7805.1	8320.3	9081.1	9978.7	10840.1	11472.1	11685.5	11532.5
17.5°	6863.1	6923.5	7120.8	7535.4	8328.4	9447.4	10812.0	11874.7	12361.7	12241.0
20°	6678.0	6730.3	6822.9	7112.7	7772.9	8895.9	10626.8	12253.0	13090.3	13021.9
22.5°	6875.2	6923.5	6951.7	7080.5	7495.1	8533.6	10393.3	12639.5	13935.6	13943.7
25°	7330.1	7378.4	7346.2	7426.7	7607.8	8420.9	10304.8	13094.3	14998.3	15086.8
27.5°	8078.8	8082.8	8006.3	8002.3	8030.5	8590.0	10397.4	13581.4	16338.7	16503.8
30°	9580.2	9519.8	9226.0	8908.0	8763.1	9097.2	10655.0	14157.0	17920.7	18214.5
32.5°	11894.8	11806.2	11266.8	10506.0	9741.2	9914.3	11117.9	14813.1	19643.5	20174.8
35°	14406.6	14382.4	13818.9	12687.8	11351.4	11077.6	11870.6	15674.5	21523.3	22368.6
37.5°	16741.2	16729.2	16407.1	15074.8	13448.5	12699.8	13078.2	16801.6	23536.0	24759.7
40°	18874.7	18910.9	18588.9	17397.4	15759.1	14780.9	14720.5	18194.4	25774.0	27364.0
42.5°	20718.3	20758.5	20432.5	19550.9	18041.4	17083.4	16737.2	19901.1	27959.8	30161.6
45°	21970.1	22219.7	22171.4	21467.0	20384.1	19389.9	19160.5	22042.6	30451.4	33128.3
47.5°	22324.3	22553.8	22916.1	23012.7	22352.5	21374.4	21648.1	24622.8	32971.3	36098.9
50°	21450.9	21664.2	22416.9	23419.2	23878.1	23576.2	24067.3	27388.2	35551.5	39061.6
52.5°	19728.0	19945.4	20895.4	22481.3	24353.1	25303.1	26494.6	30113.3	38051.2	41867.2
55°	17236.4	17465.8	18685.5	20480.8	23447.4	26015.6	28519.3	32834.4	40341.6	44391.1
57.5°	13847.1	14016.1	15284.1	17795.9	21169.1	25307.1	30012.7	35805.1	42499.2	46870.7
60°	9024.7	9173.7	10646.9	13448.5	17393.3	22940.2	30310.6	39117.9	45365.2	50094.9
62.5°	6001.7	6102.4	6975.9	9032.8	12249.0	18395.6	28567.6	41762.6	49567.6	55706.2
65°	4117.9	4218.5	5092.0	6525.0	7913.8	12168.5	23556.1	41412.3	53375.6	60162.2
67.5°	2938.5	3023.0	3763.7	5116.2	5728.0	7068.4	15968.4	36936.2	52828.1	60331.3
70°	2105.2	2153.5	2765.4	3985.1	4552.6	4246.7	8879.8	28249.6	46254.8	55710.2
72.5°	1473.3	1489.4	1920.1	3035.1	3667.1	3099.5	4226.6	18834.4	34983.9	43726.9
75°	998.3	1018.4	1292.1	2226.0	2942.5	2366.9	2238.1	10099.5	20537.1	24204.2
77.5°	611.8	619.9	833.2	1521.6	2201.8	1803.3	1441.1	4278.9	7946.0	7801.0
80°	346.2	346.2	531.3	945.9	1501.4	1163.3	1010.4	1819.4	2515.8	2209.9
82.5°	193.2	197.2	386.4	587.7	994.3	688.3	555.5	841.3	1086.8	962.0
85°	80.5	88.6	237.5	277.7	475.0	342.2	225.4	354.2	402.5	358.3
87.5°	8.1	12.1	72.5	52.3	56.4	68.4	32.2	68.4	56.4	56.4
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°
9262.2	0°	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2	9262.2
9399.1	2.5°	9322.6	9262.2	9109.3	8932.2	8698.7	8586.0	8433.0	8328.4	8239.8	8247.9
9632.6	5°	9503.7	9350.8	9008.6	8582.0	8050.6	7672.2	7269.7	6992.0	6766.5	6718.2
9954.6	7.5°	9753.3	9511.8	8912.0	8143.2	7245.6	6565.3	5957.5	5567.0	5289.3	5200.7
10345.0	10°	10075.3	9725.1	8787.2	7591.7	6299.6	5434.2	4782.1	4476.1	4287.0	4222.5
10803.9	12.5°	10449.7	9970.7	8622.2	6919.5	5325.5	4492.2	4077.6	3924.7	3864.3	3844.2
11367.5	15°	10920.7	10276.6	8372.6	6122.5	4500.3	3916.6	3739.5	3719.4	3727.4	3719.4
12043.7	17.5°	11480.2	10610.7	7966.1	5301.3	3944.8	3622.8	3558.4	3574.5	3594.6	3590.6
12800.5	20°	12092.0	10940.8	7446.8	4572.7	3566.4	3413.5	3377.2	3393.3	3409.4	3401.4
13674.0	22.5°	12788.4	11295.0	6871.2	4005.2	3312.8	3220.2	3180.0	3184.0	3184.0	3167.9
14780.9	25°	13621.6	11685.5	6267.4	3602.6	3119.6	3047.2	2998.9	2982.8	2958.6	2910.3
16125.4	27.5°	14615.9	12100.1	5687.8	3320.9	2966.7	2898.2	2841.9	2801.6	2741.2	2660.7
17739.5	30°	15734.9	12603.2	5196.7	3143.8	2845.9	2777.5	2713.1	2652.7	2564.1	2463.5
19595.2	32.5°	17051.2	13142.6	4838.4	3027.0	2737.2	2664.8	2588.3	2515.8	2419.2	2318.6
21680.3	35°	18621.1	13794.7	4629.1	2946.5	2652.7	2556.1	2471.5	2391.0	2318.6	2230.0
23946.5	37.5°	20323.8	14487.1	4564.7	2906.3	2596.3	2447.4	2350.8	2294.4	2286.4	2234.0
26398.0	40°	22187.5	15308.2	4613.0	2882.1	2535.9	2342.7	2238.1	2226.0	2246.1	2153.5
29018.4	42.5°	24159.9	16282.4	4693.5	2853.9	2451.4	2238.1	2137.4	2137.4	2121.3	1992.5
31787.8	45°	26293.3	17405.4	4774.0	2785.5	2350.8	2133.4	2056.9	2028.8	1960.3	1835.5
34573.4	47.5°	28442.8	18548.6	4834.4	2660.7	2230.0	2044.9	1976.4	1912.0	1811.4	1698.7
37306.5	50°	30483.6	19575.1	4770.0	2475.6	2093.2	1960.3	1887.9	1799.3	1690.6	1614.1
39894.8	52.5°	32307.1	20464.7	4496.3	2258.2	1948.2	1871.8	1807.4	1714.8	1626.2	1545.7
42229.5	55°	33893.1	21185.2	4013.2	2052.9	1819.4	1795.3	1730.9	1614.1	1493.4	1425.0
44544.0	57.5°	35414.6	21732.6	3409.4	1883.8	1702.7	1710.8	1614.1	1509.5	1396.8	1324.3
47663.6	60°	37439.4	22465.2	2797.6	1726.9	1577.9	1602.1	1497.4	1420.9	1280.0	1187.5
53013.3	62.5°	40675.7	23604.4	2222.0	1533.6	1433.0	1441.1	1396.8	1304.2	1135.1	1026.5
56978.2	65°	43243.9	23185.8	1751.0	1324.3	1268.0	1280.0	1280.0	1179.4	998.3	873.5
57191.5	67.5°	42954.0	19852.8	1396.8	1119.0	1111.0	1119.0	1147.2	1062.7	885.6	784.9
52836.2	70°	39568.8	15791.3	1119.0	929.8	966.1	945.9	1026.5	970.1	797.0	696.4
40961.5	72.5°	32287.0	11375.5	853.4	768.8	740.7	772.9	925.8	873.5	664.2	551.5
21696.4	75°	18866.6	6070.2	636.0	607.8	535.4	644.0	821.2	744.7	507.2	406.6
6649.8	77.5°	6142.6	2117.3	466.9	446.8	398.5	519.3	700.4	627.9	414.6	322.0
1948.2	80°	1646.4	640.0	318.0	293.8	257.6	386.4	555.5	499.1	297.9	209.3
837.3	82.5°	660.2	269.7	185.2	165.0	140.9	265.7	438.8	402.5	221.4	132.8
261.6	85°	213.3	88.6	68.4	52.3	64.4	165.0	261.6	273.7	157.0	68.4
40.3	87.5°	28.2	12.1	12.1	16.1	12.1	28.2	80.5	76.5	44.3	8.1
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°
9262.2
8167.3
6609.6
5112.1
4174.2
3832.1
3715.4
3582.5
3397.4
3159.9
2902.2
2652.7
2455.4
2322.6
2222.0
2230.0
2157.6
1992.5
1831.5
1694.7
1602.1
1537.7
1416.9
1316.3
1175.4
1018.4
861.4
768.8
684.3
539.4
394.5
309.9
205.3
132.8
52.3
0.0
0.0

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