

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: P942994

Luminaire Tested: **GALN-SB7B-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942994
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-SB7B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 450mA 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: 29243 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

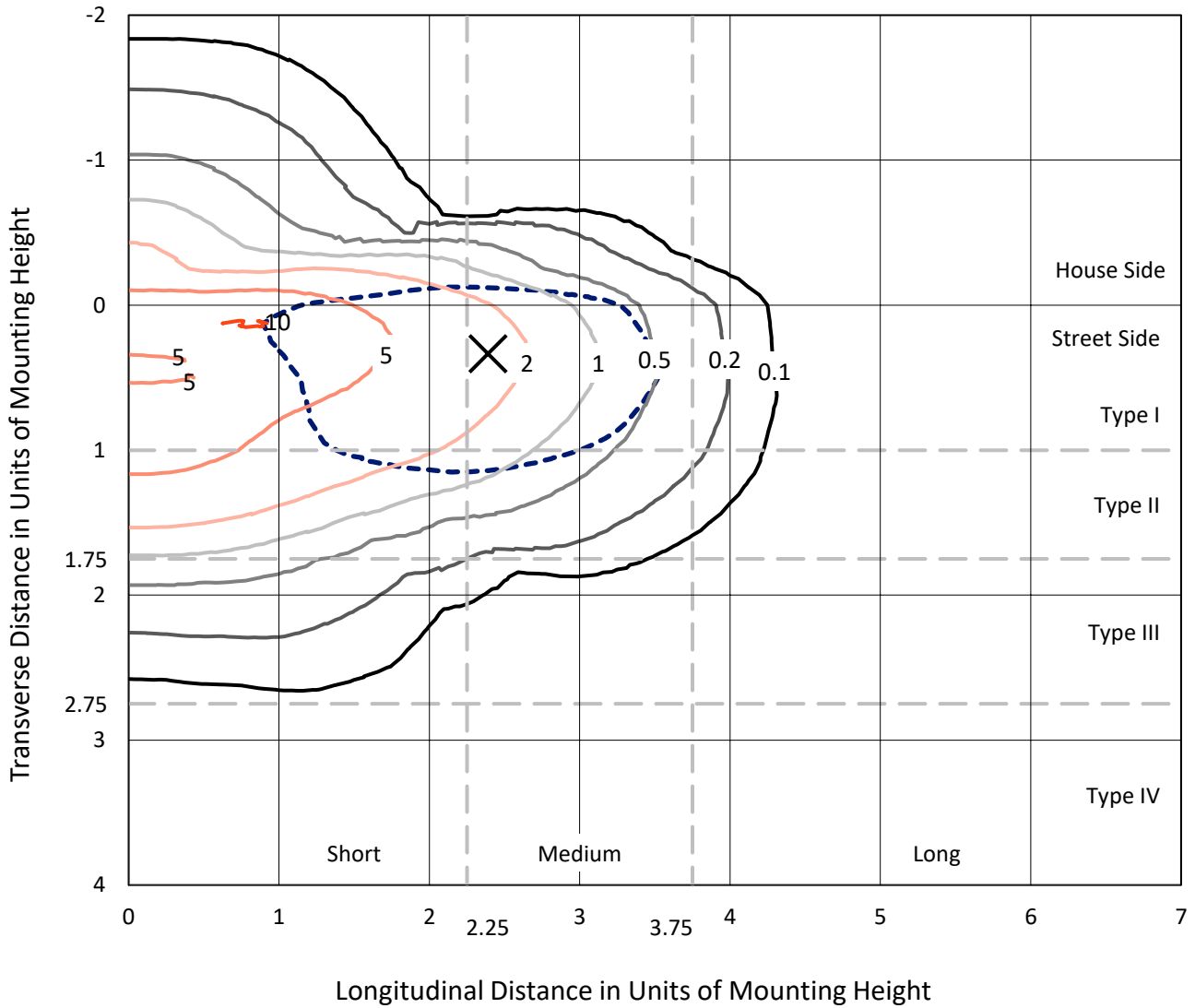
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

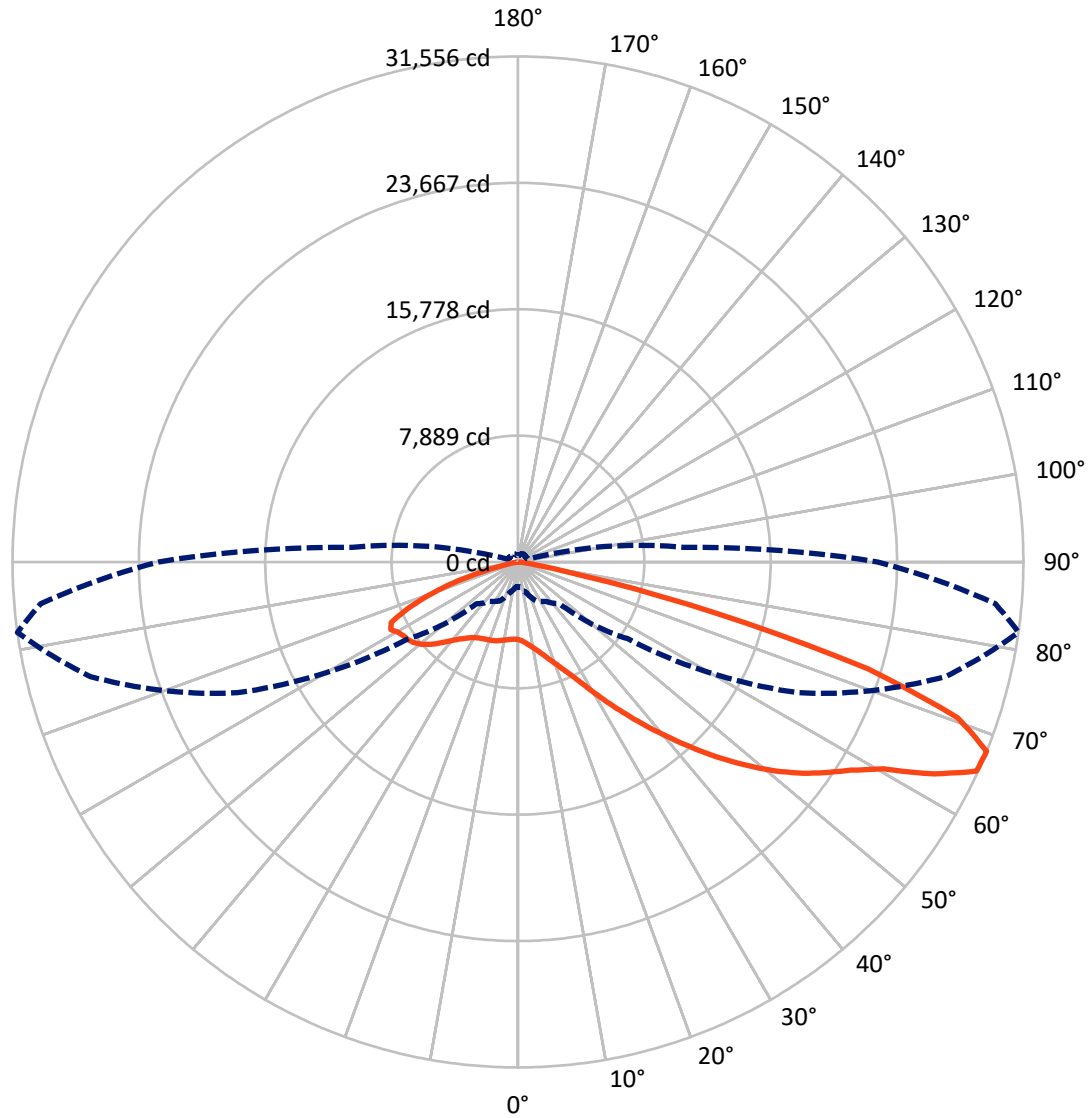
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5297.1	0.0	5297.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23945.9	0.0	23945.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	29243.0	0.0	29243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	1.5
10°-20°	1121.6	3.8
20°-30°	1796.4	6.1
30°-40°	3176.7	10.9
40°-50°	5565.8	19.0
50°-60°	7423.2	25.4
60°-70°	6910.6	23.6
70°-80°	2652.3	9.1
80°-90°	164.7	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°	29243.0	100.0
0°-180°	29243.0	100.0

Coefficient of Utilization



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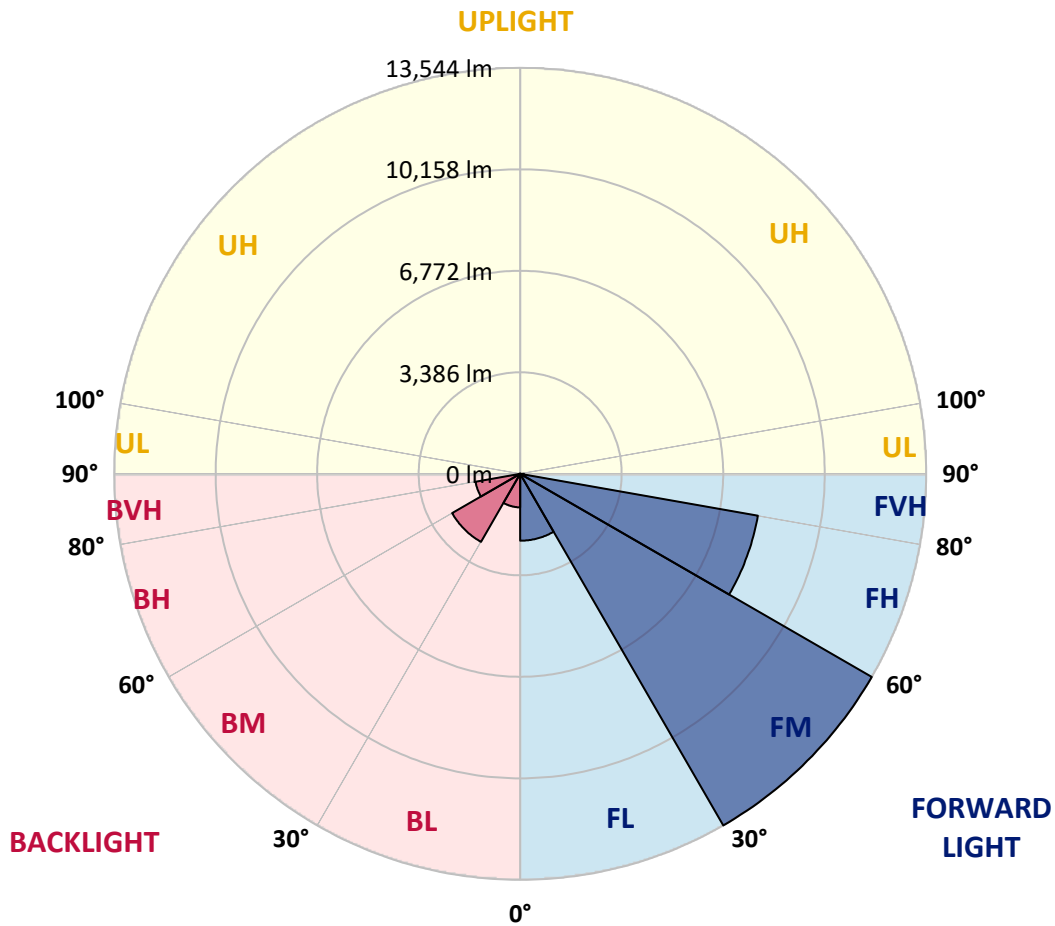
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2230.9	7.6			
FM (30°-60°)	13544.2	46.3			
FH (60°-80°)	8051.0	27.5			G4/12000
FVH (80°-90°)	119.8	0.4			G2/225
BL (0°-30°)	1118.7	3.8	B3/2500		
BM (30°-60°)	2621.5	9.0	B3/5000		
BH (60°-80°)	1511.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	45.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6
2.5°	5120.4	5149.9	5133.0	5124.6	5109.9	5088.8	5072.0	5019.3	4964.6	4928.8
5°	5223.6	5253.0	5250.9	5259.3	5269.9	5276.2	5272.0	5213.0	5135.1	5074.1
7.5°	5135.1	5168.8	5196.2	5238.3	5312.0	5389.9	5427.8	5415.1	5335.1	5250.9
10°	4884.6	4920.4	4985.6	5084.6	5240.4	5408.8	5549.9	5615.2	5564.6	5472.0
12.5°	4425.6	4461.4	4589.8	4804.6	5065.6	5358.3	5627.8	5802.5	5815.2	5722.5
15°	3909.8	3945.6	4082.4	4351.9	4749.8	5219.3	5669.9	6000.5	6112.0	6032.0
17.5°	3589.7	3621.3	3724.5	3941.3	4356.1	4941.4	5655.2	6211.0	6465.8	6402.6
20°	3492.9	3520.3	3568.7	3720.3	4065.6	4653.0	5558.3	6408.9	6846.8	6811.0
22.5°	3596.1	3621.3	3636.1	3703.4	3920.3	4463.5	5436.2	6611.0	7289.0	7293.2
25°	3834.0	3859.2	3842.4	3884.5	3979.2	4404.5	5389.9	6848.9	7844.8	7891.1
27.5°	4225.6	4227.7	4187.7	4185.6	4200.3	4493.0	5438.3	7103.7	8545.9	8632.2
30°	5010.9	4979.3	4825.6	4659.3	4583.5	4758.3	5573.1	7404.8	9373.3	9527.0
32.5°	6221.5	6175.2	5893.1	5495.2	5095.1	5185.7	5815.2	7748.0	10274.5	10552.4
35°	7535.3	7522.7	7227.9	6636.3	5937.3	5794.1	6208.9	8198.5	11257.7	11699.8
37.5°	8756.4	8750.1	8581.7	7884.8	7034.2	6642.6	6840.5	8788.0	12310.4	12950.4
40°	9872.3	9891.3	9722.8	9099.6	8242.7	7731.1	7699.5	9516.5	13481.0	14312.7
42.5°	10836.6	10857.7	10687.1	10226.0	9436.5	8935.4	8754.3	10409.2	14624.3	15775.9
45°	11491.4	11621.9	11596.7	11228.2	10661.9	10141.8	10021.8	11529.3	15927.5	17327.6
47.5°	11676.7	11796.7	11986.2	12036.7	11691.4	11179.8	11323.0	12878.9	17245.5	18881.4
50°	11219.8	11331.4	11725.1	12249.3	12489.4	12331.5	12588.3	14325.3	18595.1	20431.0
52.5°	10318.7	10432.4	10929.2	11758.8	12737.8	13234.7	13857.9	15750.7	19902.6	21898.5
55°	9015.4	9135.4	9773.4	10712.4	12264.1	13607.3	14916.9	17173.9	21100.5	23218.6
57.5°	7242.7	7331.1	7994.3	9308.1	11072.4	13236.8	15698.0	18727.7	22229.0	24515.5
60°	4720.4	4798.3	5568.8	7034.2	9097.5	11998.8	15853.8	20460.5	23728.1	26202.0
62.5°	3139.2	3191.8	3648.7	4724.6	6406.8	9621.8	14942.2	21843.8	25926.2	29136.9
65°	2153.8	2206.5	2663.4	3412.9	4139.3	6364.7	12320.9	21660.6	27917.9	31467.6
67.5°	1537.0	1581.2	1968.6	2676.0	2996.0	3697.1	8352.2	19319.4	27631.6	31556.1
70°	1101.1	1126.4	1446.4	2084.4	2381.2	2221.2	4644.6	14775.8	24193.4	29139.0
72.5°	770.6	779.0	1004.3	1587.5	1918.0	1621.2	2210.7	9851.3	18298.2	22871.2
75°	522.1	532.7	675.8	1164.3	1539.1	1238.0	1170.6	5282.5	10741.9	12659.9
77.5°	320.0	324.2	435.8	795.8	1151.7	943.2	753.7	2238.1	4156.1	4080.3
80°	181.1	181.1	277.9	494.8	785.3	608.5	528.5	951.7	1315.9	1155.9
82.5°	101.1	103.2	202.1	307.4	520.0	360.0	290.5	440.0	568.5	503.2
85°	42.1	46.3	124.2	145.3	248.4	179.0	117.9	185.3	210.5	187.4
87.5°	4.2	6.3	37.9	27.4	29.5	35.8	16.8	35.8	29.5	29.5
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°
4844.6	0°	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6	4844.6
4916.2	2.5°	4876.2	4844.6	4764.6	4671.9	4549.8	4490.9	4410.9	4356.1	4309.8	4314.0
5038.3	5°	4970.9	4890.9	4711.9	4488.8	4210.8	4012.9	3802.4	3657.1	3539.2	3513.9
5206.7	7.5°	5101.4	4975.1	4661.4	4259.3	3789.8	3433.9	3116.0	2911.8	2766.5	2720.2
5410.9	10°	5269.9	5086.7	4596.1	3970.8	3295.0	2842.3	2501.2	2341.2	2242.3	2208.6
5651.0	12.5°	5465.7	5215.1	4509.8	3619.2	2785.5	2349.7	2132.8	2052.8	2021.2	2010.7
5945.7	15°	5712.0	5375.1	4379.3	3202.3	2353.9	2048.6	1955.9	1945.4	1949.6	1945.4
6299.4	17.5°	6004.7	5549.9	4166.6	2772.8	2063.3	1894.9	1861.2	1869.6	1880.1	1878.0
6695.2	20°	6324.7	5722.5	3895.0	2391.8	1865.4	1785.4	1766.4	1774.9	1783.3	1779.1
7152.1	22.5°	6688.9	5907.8	3594.0	2094.9	1732.8	1684.3	1663.3	1665.4	1665.4	1657.0
7731.1	25°	7124.7	6112.0	3278.1	1884.4	1631.7	1593.8	1568.5	1560.1	1547.5	1522.2
8434.3	27.5°	7644.8	6328.9	2975.0	1737.0	1551.7	1515.9	1486.4	1465.4	1433.8	1391.7
9278.6	30°	8230.1	6592.1	2718.1	1644.3	1488.5	1452.7	1419.1	1387.5	1341.2	1288.5
10249.2	32.5°	8918.6	6874.2	2530.7	1583.3	1431.7	1393.8	1353.8	1315.9	1265.4	1212.7
11339.8	35°	9739.7	7215.3	2421.2	1541.2	1387.5	1336.9	1292.7	1250.6	1212.7	1166.4
12525.2	37.5°	10630.3	7577.4	2387.5	1520.1	1358.0	1280.1	1229.6	1200.1	1195.9	1168.5
13807.4	40°	11605.1	8006.9	2412.8	1507.5	1326.4	1225.4	1170.6	1164.3	1174.8	1126.4
15178.0	42.5°	12636.7	8516.4	2454.9	1492.7	1282.2	1170.6	1118.0	1118.0	1109.6	1042.2
16626.5	45°	13752.6	9103.8	2497.0	1457.0	1229.6	1115.9	1075.9	1061.1	1025.3	960.1
18083.5	47.5°	14876.9	9701.8	2528.6	1391.7	1166.4	1069.6	1033.8	1000.1	947.4	888.5
19513.0	50°	15944.4	10238.7	2494.9	1294.8	1094.8	1025.3	987.4	941.1	884.3	844.3
20866.8	52.5°	16898.1	10704.0	2351.8	1181.1	1019.0	979.0	945.3	896.9	850.6	808.5
22088.0	55°	17727.7	11080.8	2099.1	1073.8	951.7	939.0	905.3	844.3	781.1	745.3
23298.6	57.5°	18523.5	11367.2	1783.3	985.3	890.6	894.8	844.3	789.5	730.6	692.7
24930.3	60°	19582.5	11750.4	1463.3	903.2	825.3	838.0	783.2	743.2	669.5	621.1
27728.4	62.5°	21275.3	12346.2	1162.2	802.2	749.5	753.7	730.6	682.2	593.7	536.9
29802.2	65°	22618.5	12127.2	915.9	692.7	663.2	669.5	669.5	616.9	522.1	456.9
29913.8	67.5°	22467.0	10383.9	730.6	585.3	581.1	585.3	600.0	555.8	463.2	410.6
27635.8	70°	20696.3	8259.6	585.3	486.4	505.3	494.8	536.9	507.4	416.9	364.2
21424.8	72.5°	16887.6	5949.9	446.3	402.1	387.4	404.2	484.2	456.9	347.4	288.4
11348.2	75°	9868.1	3175.0	332.7	317.9	280.0	336.9	429.5	389.5	265.3	212.6
3478.2	77.5°	3212.9	1107.5	244.2	233.7	208.4	271.6	366.3	328.4	216.9	168.4
1019.0	80°	861.1	334.8	166.3	153.7	134.7	202.1	290.5	261.1	155.8	109.5
437.9	82.5°	345.3	141.1	96.8	86.3	73.7	139.0	229.5	210.5	115.8	69.5
136.9	85°	111.6	46.3	35.8	27.4	33.7	86.3	136.9	143.2	82.1	35.8
21.1	87.5°	14.7	6.3	6.3	8.4	6.3	14.7	42.1	40.0	23.2	4.2
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°
4844.6
4271.9
3457.1
2673.9
2183.3
2004.4
1943.3
1873.8
1777.0
1652.8
1518.0
1387.5
1284.3
1214.8
1162.2
1166.4
1128.5
1042.2
958.0
886.4
838.0
804.3
741.1
688.5
614.8
532.7
450.6
402.1
357.9
282.1
206.3
162.1
107.4
69.5
27.4
0.0
0.0

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