

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: P944564

Luminaire Tested: **GALN-SB9C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944564
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-SB9C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 43314 lumens
Efficiency: N/A
Efficacy: 96.3 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

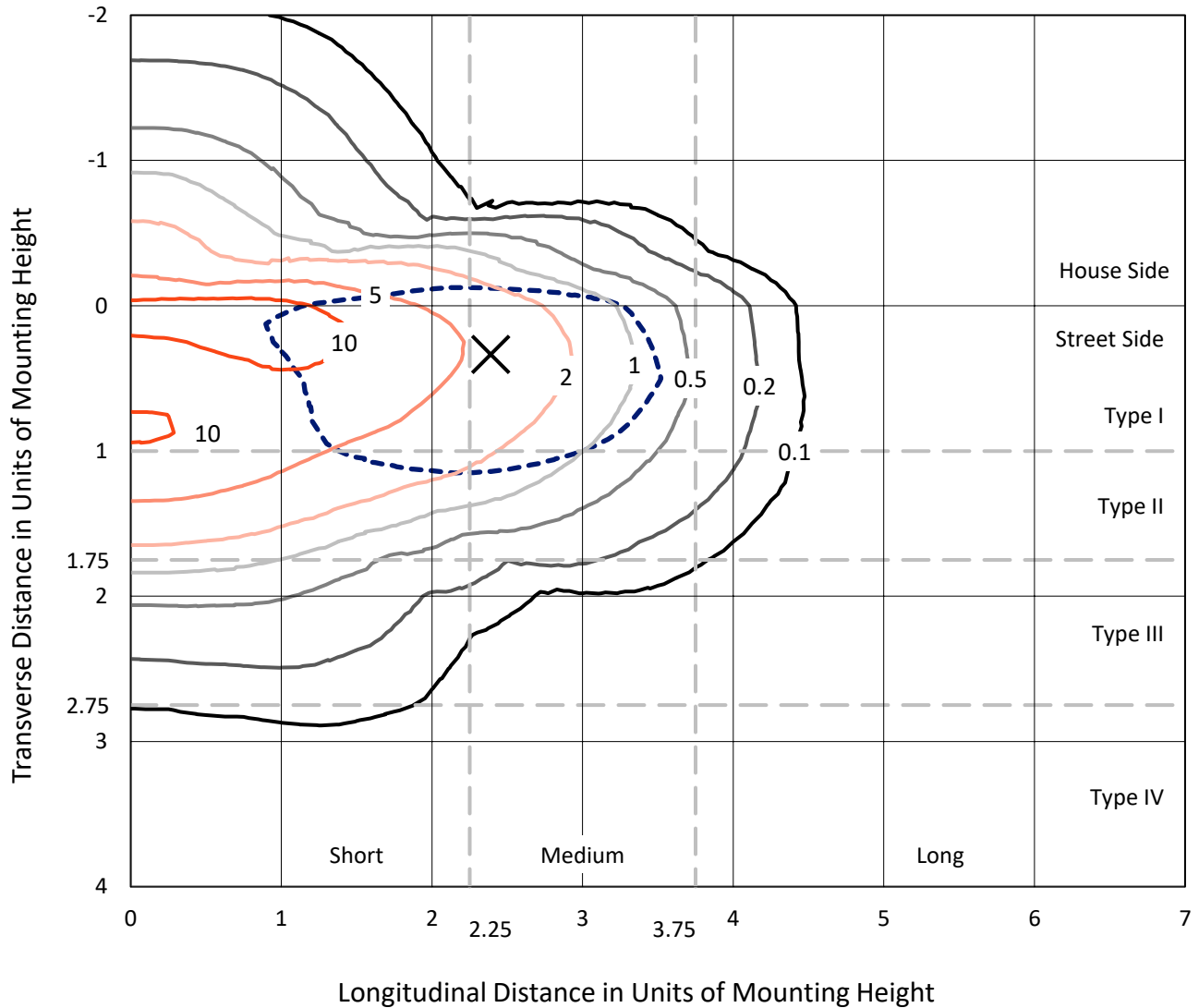
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

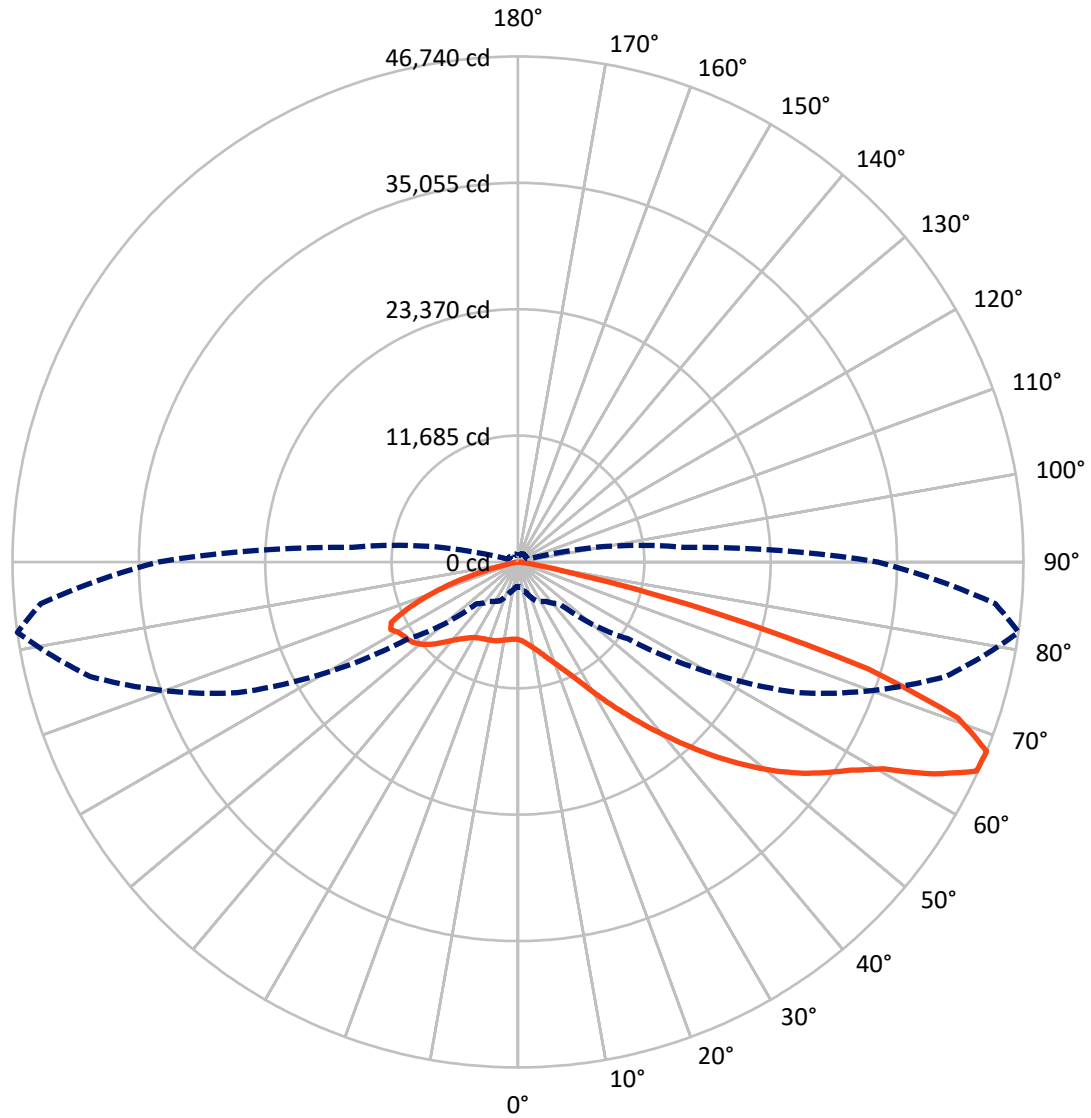
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	7846.0	0.0	7846.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35468.1	0.0	35468.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	43314.0	0.0	43314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.3	1.5
10°-20°	1661.3	3.8
20°-30°	2660.8	6.1
30°-40°	4705.2	10.9
40°-50°	8243.9	19.0
50°-60°	10995.1	25.4
60°-70°	10235.9	23.6
70°-80°	3928.5	9.1
80°-90°	244.0	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°	43314.0	100.0
0°-180°	43314.0	100.0

Coefficient of Utilization



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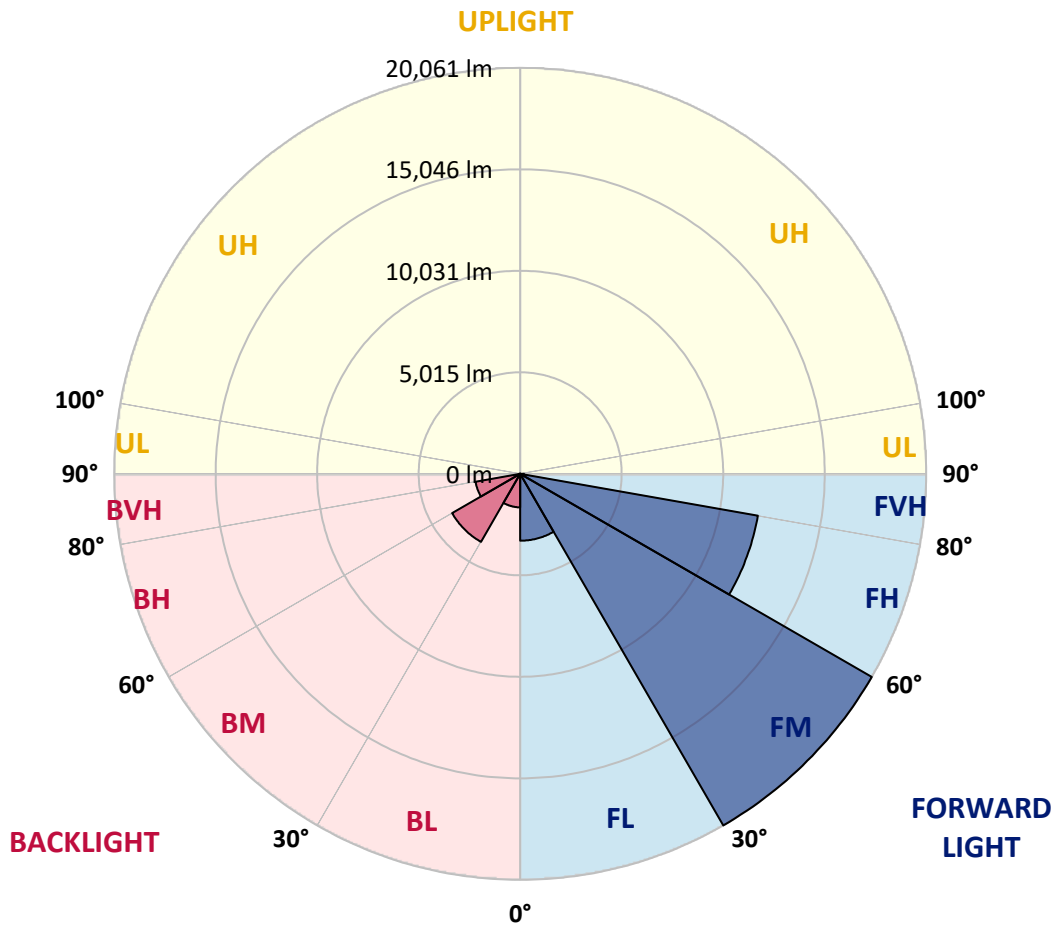
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3304.4	7.6			
FM (30°-60°)	20061.3	46.3			
FH (60°-80°)	11925.0	27.5			G4/12000
FVH (80°-90°)	177.4	0.4			G2/225
BL (0°-30°)	1657.0	3.8	B3/2500		
BM (30°-60°)	3882.9	9.0	B3/5000		
BH (60°-80°)	2239.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	66.6	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°	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7
2.5°	7584.2	7627.8	7602.9	7590.4	7568.6	7537.4	7512.5	7434.5	7353.4	7300.4
5°	7737.0	7780.7	7777.5	7790.0	7805.6	7815.0	7808.7	7721.4	7606.0	7515.6
7.5°	7606.0	7655.9	7696.5	7758.8	7868.0	7983.4	8039.5	8020.8	7902.3	7777.5
10°	7234.9	7287.9	7384.6	7531.2	7761.9	8011.4	8220.4	8317.0	8242.2	8105.0
12.5°	6555.1	6608.1	6798.3	7116.4	7503.1	7936.6	8335.7	8594.6	8613.3	8476.1
15°	5791.1	5844.1	6046.8	6445.9	7035.3	7730.8	8398.1	8887.7	9053.0	8934.5
17.5°	5317.0	5363.8	5516.6	5837.8	6452.2	7319.1	8376.3	9199.6	9576.9	9483.4
20°	5173.6	5214.1	5285.9	5510.4	6021.8	6891.9	8232.8	9492.7	10141.4	10088.3
22.5°	5326.4	5363.8	5385.6	5485.4	5806.6	6611.2	8052.0	9792.1	10796.2	10802.5
25°	5678.8	5716.2	5691.3	5753.6	5894.0	6523.9	7983.4	10144.5	11619.5	11688.1
27.5°	6258.8	6261.9	6202.7	6199.6	6221.4	6654.9	8055.1	10521.8	12658.0	12785.8
30°	7422.0	7375.2	7147.6	6901.2	6789.0	7047.8	8254.7	10967.8	13883.6	14111.2
32.5°	9215.2	9146.6	8728.7	8139.3	7546.8	7680.9	8613.3	11476.1	15218.3	15629.9
35°	11161.1	11142.4	10705.8	9829.5	8794.2	8582.1	9196.5	12143.4	16674.6	17329.5
37.5°	12969.8	12960.5	12711.0	11678.8	10418.9	9838.9	10132.0	13016.6	18233.9	19181.9
40°	14622.6	14650.7	14401.2	13478.1	12208.9	11451.1	11404.3	14095.6	19967.7	21199.5
42.5°	16050.9	16082.1	15829.5	15146.5	13977.1	13234.9	12966.7	15417.9	21661.1	23366.9
45°	17020.8	17214.1	17176.7	16631.0	15792.1	15021.8	14844.1	17076.9	23591.4	25665.2
47.5°	17295.2	17472.9	17753.6	17828.5	17317.0	16559.2	16771.3	19075.9	25543.6	27966.7
50°	16618.5	16783.8	17366.9	18143.4	18498.9	18265.0	18645.5	21218.3	27542.6	30261.9
52.5°	15283.8	15452.2	16188.1	17416.8	18866.9	19602.9	20526.0	23329.5	29479.2	32435.5
55°	13353.4	13531.2	14476.1	15866.9	18165.3	20154.9	22094.6	25437.6	31253.6	34390.8
57.5°	10727.6	10858.6	11840.9	13786.9	16400.2	19606.0	23251.5	27739.0	32925.1	36311.8
60°	6991.7	7107.1	8248.4	10418.9	13475.0	17772.3	23482.3	30305.6	35145.5	38809.7
62.5°	4649.7	4727.6	5404.4	6997.9	9489.6	14251.5	22132.0	32354.4	38401.2	43156.9
65°	3190.2	3268.2	3944.9	5055.1	6131.0	9427.2	18249.5	32083.1	41351.3	46609.1
67.5°	2276.5	2342.0	2915.8	3963.6	4437.6	5476.1	12371.1	28615.3	40927.2	46740.0
70°	1631.0	1668.4	2142.4	3087.3	3527.0	3290.0	6879.4	21885.6	35834.7	43160.0
72.5°	1141.4	1153.8	1487.5	2351.3	2841.0	2401.2	3274.4	14591.5	27102.9	33876.2
75°	773.4	789.0	1001.0	1724.5	2279.6	1833.7	1733.9	7824.3	15910.6	18751.5
77.5°	474.0	480.2	645.5	1178.8	1705.8	1397.1	1116.4	3315.0	6155.9	6043.6
80°	268.2	268.2	411.6	732.8	1163.2	901.2	782.7	1409.6	1949.1	1712.1
82.5°	149.7	152.8	299.4	455.3	770.3	533.3	430.4	651.8	842.0	745.3
85°	62.4	68.6	184.0	215.2	368.0	265.1	174.6	274.4	311.8	277.5
87.5°	6.2	9.4	56.1	40.5	43.7	53.0	24.9	53.0	43.7	43.7
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°
7175.7	0°	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7	7175.7
7281.7	2.5°	7222.4	7175.7	7057.2	6919.9	6739.1	6651.8	6533.3	6452.2	6383.6	6389.8
7462.6	5°	7362.8	7244.3	6979.2	6648.6	6237.0	5943.9	5632.0	5416.8	5242.2	5204.8
7712.0	7.5°	7556.1	7369.0	6904.4	6308.7	5613.3	5086.3	4615.4	4312.9	4097.7	4029.1
8014.5	10°	7805.6	7534.3	6807.7	5881.5	4880.4	4210.0	3704.8	3467.8	3321.2	3271.3
8370.0	12.5°	8095.6	7724.5	6679.8	5360.7	4125.8	3480.2	3159.0	3040.5	2993.8	2978.2
8806.6	15°	8460.5	7961.5	6486.5	4743.2	3486.5	3034.3	2897.1	2881.5	2887.7	2881.5
9330.5	17.5°	8894.0	8220.4	6171.5	4107.1	3056.1	2806.6	2756.8	2769.2	2784.8	2781.7
9916.8	20°	9368.0	8476.1	5769.2	3542.6	2763.0	2644.5	2616.4	2628.9	2641.4	2635.1
10593.5	22.5°	9907.5	8750.5	5323.3	3102.9	2566.5	2494.8	2463.6	2466.7	2466.7	2454.3
11451.1	25°	10553.0	9053.0	4855.5	2791.1	2416.8	2360.7	2323.3	2310.8	2292.1	2254.7
12492.7	27.5°	11323.3	9374.2	4406.4	2572.8	2298.3	2245.3	2201.7	2170.5	2123.7	2061.3
13743.2	30°	12190.2	9764.0	4026.0	2435.5	2204.8	2151.8	2101.9	2055.1	1986.5	1908.5
15180.8	32.5°	13210.0	10181.9	3748.4	2345.1	2120.6	2064.4	2005.2	1949.1	1874.2	1796.3
16796.2	35°	14426.2	10687.1	3586.3	2282.7	2055.1	1980.2	1914.8	1852.4	1796.3	1727.6
18551.9	37.5°	15745.3	11223.5	3536.4	2251.6	2011.4	1896.0	1821.2	1777.5	1771.3	1730.8
20451.1	40°	17189.2	11859.6	3573.8	2232.8	1964.7	1815.0	1733.9	1724.5	1740.1	1668.4
22481.3	42.5°	18717.2	12614.3	3636.2	2211.0	1899.2	1733.9	1655.9	1655.9	1643.4	1543.7
24626.8	45°	20370.0	13484.4	3698.5	2158.0	1821.2	1652.8	1593.6	1571.7	1518.7	1422.0
26784.8	47.5°	22035.3	14370.0	3745.3	2061.3	1727.6	1584.2	1531.2	1481.3	1403.3	1316.0
28902.2	50°	23616.4	15165.3	3695.4	1917.9	1621.6	1518.7	1462.6	1394.0	1309.8	1250.5
30907.4	52.5°	25029.1	15854.4	3483.4	1749.5	1509.4	1450.1	1400.2	1328.5	1259.9	1197.5
32716.2	55°	26257.8	16412.7	3109.1	1590.4	1409.6	1390.9	1341.0	1250.5	1157.0	1103.9
34509.3	57.5°	27436.5	16836.8	2641.4	1459.5	1319.1	1325.4	1250.5	1169.4	1082.1	1026.0
36926.1	60°	29005.2	17404.3	2167.4	1337.8	1222.5	1241.2	1160.1	1100.8	991.7	920.0
41070.6	62.5°	31512.4	18286.9	1721.4	1188.1	1110.2	1116.4	1082.1	1010.4	879.4	795.2
44142.3	65°	33502.0	17962.5	1356.5	1026.0	982.3	991.7	991.7	913.7	773.4	676.7
44307.6	67.5°	33277.5	15380.4	1082.1	866.9	860.7	866.9	888.8	823.3	686.1	608.1
40933.4	70°	30654.8	12233.9	866.9	720.4	748.4	732.8	795.2	751.6	617.5	539.5
31733.8	72.5°	25013.5	8812.9	661.1	595.6	573.8	598.8	717.3	676.7	514.6	427.2
16808.7	75°	14616.4	4702.7	492.7	470.9	414.8	499.0	636.2	576.9	392.9	315.0
5151.8	77.5°	4758.8	1640.3	361.7	346.2	308.7	402.3	542.6	486.5	321.2	249.5
1509.4	80°	1275.5	495.8	246.4	227.7	199.6	299.4	430.4	386.7	230.8	162.2
648.6	82.5°	511.4	208.9	143.5	127.9	109.1	205.8	339.9	311.8	171.5	102.9
202.7	85°	165.3	68.6	53.0	40.5	49.9	127.9	202.7	212.1	121.6	53.0
31.2	87.5°	21.8	9.4	9.4	12.5	9.4	21.8	62.4	59.3	34.3	6.2
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°
7175.7
6327.4
5120.6
3960.5
3233.9
2968.8
2878.4
2775.5
2632.0
2448.0
2248.4
2055.1
1902.3
1799.4
1721.4
1727.6
1671.5
1543.7
1418.9
1312.9
1241.2
1191.3
1097.7
1019.7
910.6
789.0
667.4
595.6
530.1
417.9
305.6
240.1
159.0
102.9
40.5
0.0
0.0

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