

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: P957477

Luminaire Tested: **GALN-SB9D-827-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65325 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

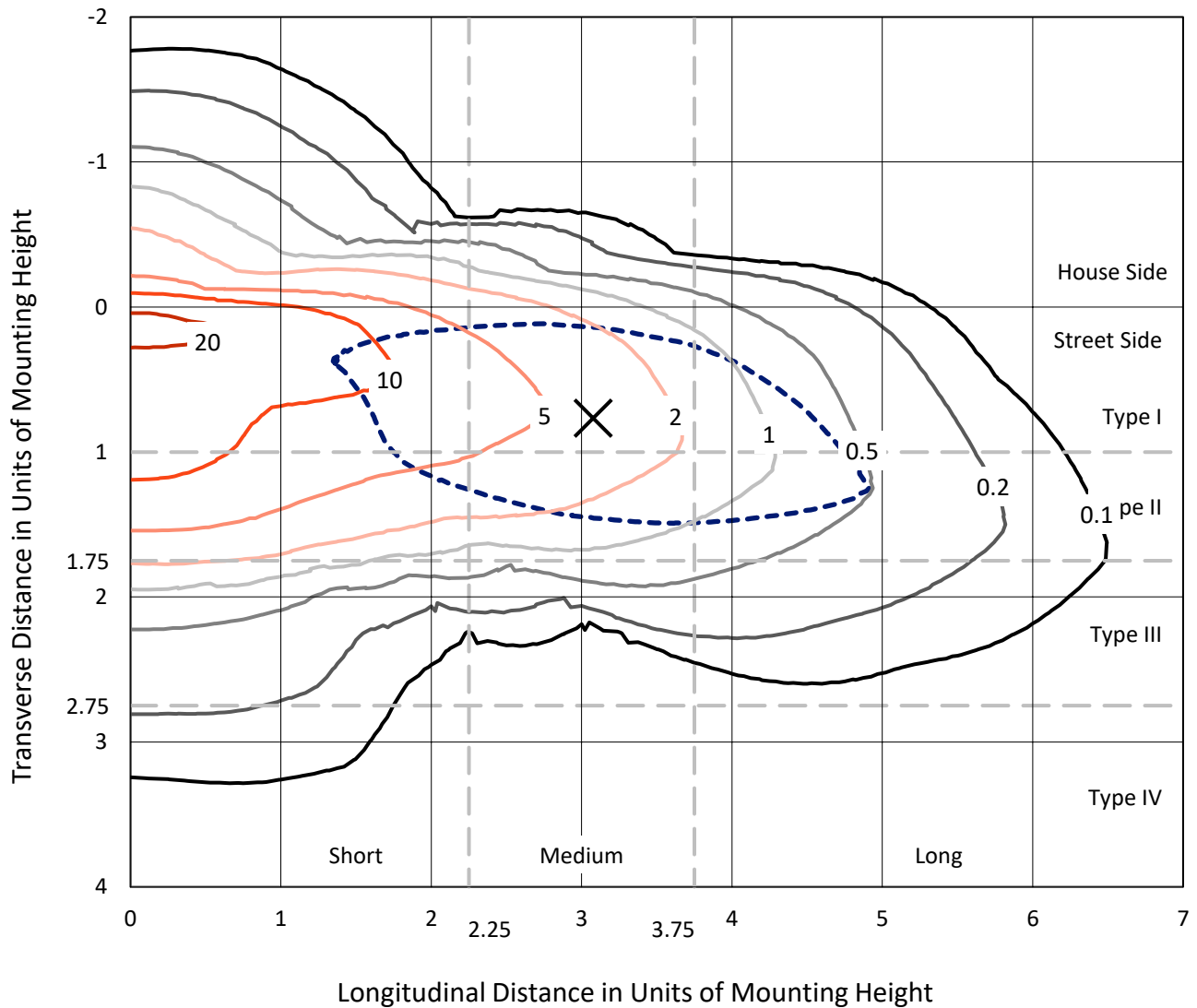
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957477
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Iso-Footcandle Lines of Horizontal Illumination

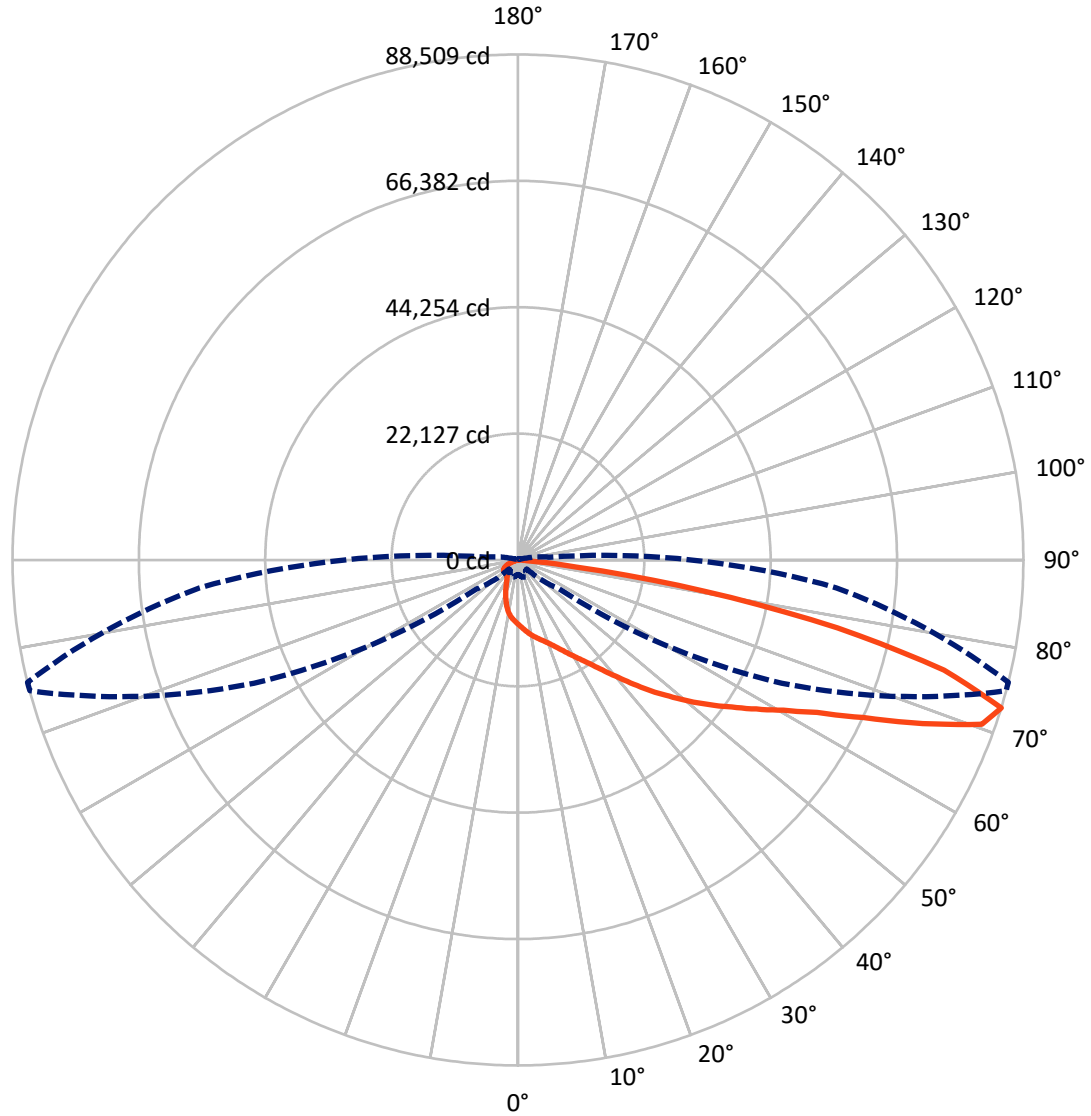
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P957477
CATALOG NUMBER: GALN-SB9D-827-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6686.0	0.0	6686.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	58639.0	0.0	58639.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	65325.0	0.0	65325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.8	1.6
10°-20°	2752.9	4.2
20°-30°	4357.1	6.7
30°-40°	6741.1	10.3
40°-50°	10238.6	15.7
50°-60°	14115.0	21.6
60°-70°	14911.6	22.8
70°-80°	10229.7	15.7
80°-90°	952.1	1.5
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°	65325.0	100.0
0°-180°	65325.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957477

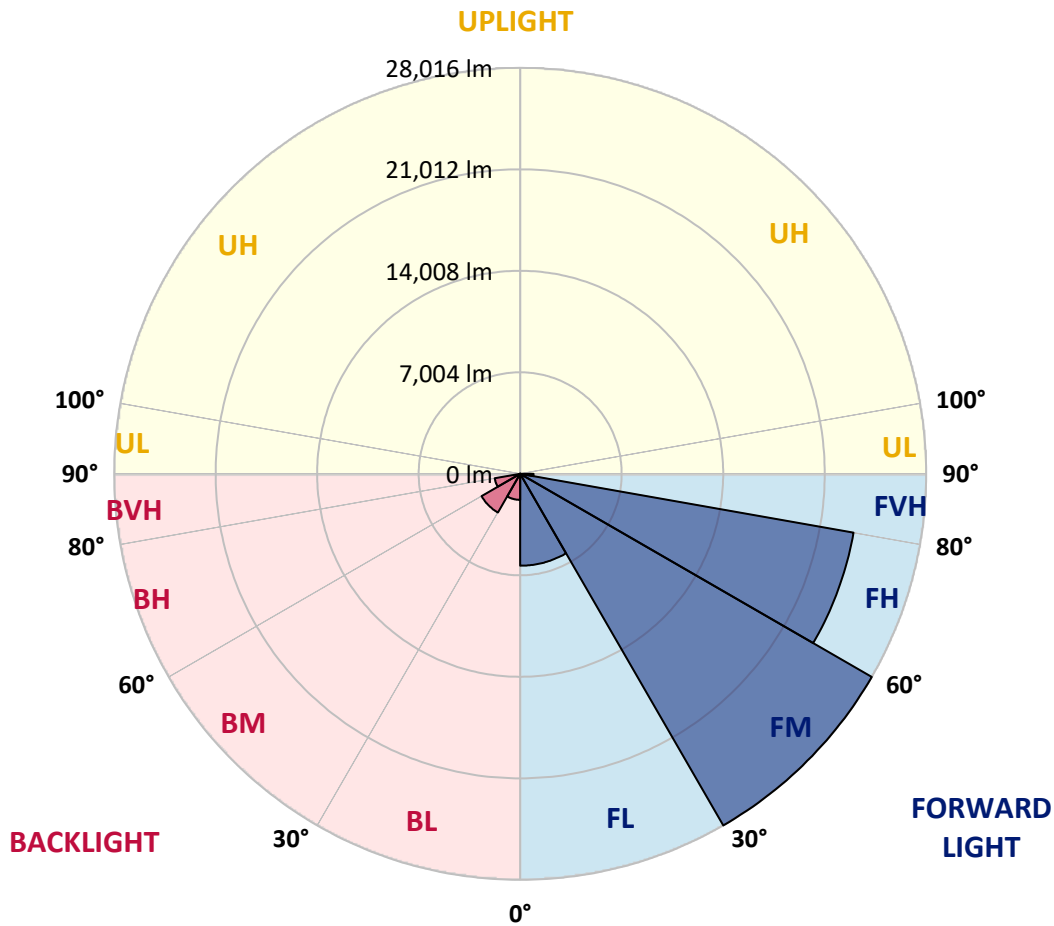
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6339.6	9.7			
FM (30°-60°)	28016.4	42.9			
FH (60°-80°)	23356.5	35.8			G5
FVH (80°-90°)	926.4	1.4			G5
BL (0°-30°)	1797.2	2.8	B3/2500		
BM (30°-60°)	3078.3	4.7	B3/5000		
BH (60°-80°)	1784.8	2.7	B3/2500		G3/2500
BVH (80°-90°)	25.7	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 II Medium



REPORT NUMBER: P957477
 CATALOG NUMBER: GALN-SB9D-827-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7
2.5°	13123.6	12949.8	12983.7	12810.0	12729.5	12534.6	12331.2	12064.2	11767.6	11767.6
5°	14505.0	14394.8	14394.8	14191.4	14034.6	13729.5	13365.1	12894.7	12335.4	12280.3
7.5°	15352.5	15284.7	15327.1	15208.4	15081.3	14763.5	14331.3	13716.8	12924.4	12856.6
10°	15517.8	15513.5	15632.2	15666.1	15750.8	15589.8	15204.2	14496.5	13504.9	13407.5
12.5°	14877.9	14797.4	15089.8	15433.0	15916.1	16132.2	15933.0	15208.4	14034.6	13899.0
15°	13827.0	13843.9	14123.6	14653.3	15458.4	16229.7	16488.2	15903.4	14572.8	14411.8
17.5°	13225.3	13161.7	13403.2	13877.8	14767.7	15856.8	16746.6	16551.7	15144.9	14962.7
20°	13153.2	13149.0	13204.1	13420.2	14098.2	15322.8	16717.0	17183.1	15818.6	15606.8
22.5°	13653.3	13644.8	13598.2	13555.8	13742.2	14801.6	16589.9	17784.8	16623.8	16394.9
25°	14420.2	14407.5	14335.5	14077.0	13894.8	14521.9	16471.2	18344.2	17577.2	17322.9
27.5°	15356.7	15348.3	15216.9	14827.0	14356.7	14547.4	16411.9	18920.5	18678.9	18428.9
30°	16505.1	16488.2	16217.0	15666.1	15051.6	14949.9	16492.4	19568.8	19827.3	19636.6
32.5°	17945.9	17899.2	17543.3	16712.7	15852.5	15488.1	16644.9	20234.1	21187.6	21009.6
35°	19060.3	18988.3	18780.6	18047.6	16780.5	16149.2	17000.9	21022.3	22823.2	22666.4
37.5°	20018.0	19946.0	19776.5	19174.7	18111.1	16992.4	17573.0	22073.2	24755.5	24679.3
40°	21052.0	20933.3	20852.8	20208.7	19246.8	18208.6	18390.8	23302.1	26980.2	26988.7
42.5°	21848.6	21802.0	21810.5	21314.7	20344.3	19649.3	19475.6	24687.7	29645.6	29726.1
45°	22530.8	22492.7	22649.5	22302.0	21450.3	20594.3	20746.9	26255.6	32561.0	32726.3
47.5°	23056.3	23098.7	23323.3	23098.7	22598.6	21259.6	21874.0	27946.4	35624.8	35645.9
50°	23581.7	23598.7	23971.6	23861.4	23658.0	22102.9	22912.2	29836.3	38853.7	38891.9
52.5°	23747.0	23721.6	24314.8	24586.0	24594.5	23145.3	24255.5	31895.7	42019.2	42142.0
55°	22899.5	22971.5	23929.2	25031.0	25467.4	24586.0	26069.2	34501.8	45392.2	45443.1
57.5°	18755.2	19153.5	21272.3	23827.5	26031.0	26649.7	28675.2	37548.6	49286.5	49239.9
60°	11382.0	11856.6	14390.6	19984.1	24191.9	28721.8	32514.4	42269.2	53540.9	53409.6
62.5°	6364.7	6508.8	7318.2	11962.5	18399.3	27404.0	36264.6	48333.0	59253.1	58808.2
65°	4690.9	4737.5	4928.2	5860.5	9042.8	21077.4	35442.5	55583.4	67279.0	66486.5
67.5°	4076.5	4123.1	4309.5	4436.7	4038.3	11072.6	29200.7	59604.8	77470.2	76432.0
70°	3432.4	3457.8	3758.7	3843.4	2890.0	4212.1	18759.5	58363.2	86902.9	86161.3
72.5°	2559.5	2661.2	3097.6	3301.0	2317.9	2237.4	8831.0	51028.1	88500.4	88508.9
75°	1737.4	1830.6	2330.6	2716.2	1788.2	1567.9	3563.7	38103.7	77063.4	77063.4
77.5°	1186.5	1262.8	1623.0	2131.5	1356.0	1076.3	1847.6	24183.5	55286.8	57231.8
80°	525.5	572.1	1046.7	1546.7	1029.7	695.0	1046.7	13242.2	33434.0	33022.9
82.5°	258.5	296.6	669.5	966.2	665.3	428.0	550.9	6296.9	10835.3	10297.2
85°	50.9	67.8	360.2	411.0	309.3	190.7	207.6	1936.5	1305.2	1491.6
87.5°	0.0	0.0	110.2	76.3	33.9	42.4	42.4	173.7	101.7	118.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957477
 CATALOG NUMBER: GALN-SB9D-827-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11288.7	0°	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7	11288.7
11479.4	2.5°	11326.9	11170.1	10826.8	10487.8	10140.4	9822.5	9602.2	9381.8	9246.2	9186.9
11733.7	5°	11415.9	11098.0	10377.7	9623.4	8877.6	8148.7	7602.1	7089.4	6928.3	6661.4
12034.5	7.5°	11555.7	11038.7	9903.1	8631.8	7419.9	6352.0	5580.8	4966.4	4720.6	4483.3
12293.0	10°	11648.9	10928.5	9275.9	7576.7	5936.8	4737.5	4000.2	3555.3	3394.2	3250.2
12534.6	12.5°	11687.1	10725.1	8555.5	6394.4	4618.9	3610.4	3169.7	2962.0	2906.9	2856.1
12763.4	15°	11721.0	10526.0	7750.4	5254.5	3648.5	3021.3	2847.6	2779.8	2741.7	2707.8
12996.4	17.5°	11750.6	10271.7	6830.9	4271.4	3080.7	2784.0	2699.3	2627.3	2597.6	2559.5
13331.2	20°	11852.3	10026.0	6008.8	3525.6	2771.3	2614.5	2521.3	2445.0	2419.6	2394.2
13805.8	22.5°	12043.0	9826.8	5212.1	3021.3	2584.9	2440.8	2322.2	2237.4	2220.5	2203.5
14382.1	25°	12271.8	9581.0	4462.1	2695.1	2402.7	2241.6	2110.3	2038.2	2021.3	2025.5
15047.4	27.5°	12564.2	9309.8	3818.0	2487.4	2241.6	2055.2	1906.9	1851.8	1860.3	1877.2
15814.4	30°	12886.3	9059.8	3313.7	2343.3	2097.6	1889.9	1741.6	1703.5	1733.1	1758.6
16839.9	32.5°	13365.1	8839.4	2962.0	2228.9	1970.4	1754.3	1635.7	1589.1	1623.0	1656.9
18149.3	35°	14017.7	8729.3	2762.9	2131.5	1860.3	1648.4	1529.7	1495.8	1529.7	1538.2
19746.8	37.5°	14818.6	8720.8	2678.1	2051.0	1758.6	1559.4	1428.0	1415.3	1440.8	1445.0
21666.4	40°	15852.5	8775.9	2614.5	1991.6	1652.6	1457.7	1334.8	1322.1	1330.6	1360.2
23975.8	42.5°	17161.9	9004.7	2525.6	1915.4	1538.2	1356.0	1258.5	1228.9	1224.6	1258.5
26560.7	45°	18806.1	9509.0	2406.9	1792.5	1436.5	1271.3	1173.8	1139.9	1127.2	1135.7
29230.3	47.5°	20598.5	10127.7	2288.3	1678.1	1364.5	1203.5	1106.0	1063.6	1042.4	1042.4
31726.2	50°	22335.9	10826.8	2207.7	1559.4	1313.6	1139.9	1034.0	991.6	957.7	949.2
34294.2	52.5°	24056.3	11513.3	2144.2	1440.8	1254.3	1059.4	966.2	919.5	881.4	864.5
36836.7	55°	25624.2	12165.9	2034.0	1326.3	1178.0	974.6	898.4	851.7	805.1	775.5
39413.1	57.5°	27128.5	12708.3	1830.6	1207.7	1059.4	894.1	826.3	775.5	720.4	682.2
42019.2	60°	28497.3	12988.0	1576.4	1080.6	940.7	809.4	745.8	699.2	627.2	563.6
44582.8	62.5°	29539.7	12877.8	1300.9	936.5	817.8	733.1	652.6	606.0	521.2	444.9
47655.0	65°	30607.5	12276.1	1038.2	783.9	716.1	631.4	546.6	500.0	402.6	322.1
51812.0	67.5°	31993.2	10992.1	817.8	652.6	618.7	500.0	428.0	398.3	330.5	254.3
56274.1	70°	32883.1	8538.6	635.6	529.7	508.5	364.4	330.5	326.3	262.7	194.9
55973.3	72.5°	30442.3	5597.8	487.3	402.6	364.4	237.3	254.3	254.3	190.7	131.4
49066.1	75°	25412.4	3275.6	351.7	288.2	207.6	152.6	173.7	173.7	118.7	63.6
34972.2	77.5°	18149.3	1745.9	233.1	178.0	105.9	67.8	93.2	89.0	38.1	4.2
13708.3	80°	6941.0	601.7	110.2	72.0	29.7	12.7	8.5	4.2	4.2	0.0
2139.9	82.5°	1059.4	156.8	21.2	17.0	0.0	0.0	0.0	0.0	0.0	0.0
453.4	85°	190.7	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118.7	87.5°	42.4	0.0	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°
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11288.7
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