

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: P944736

Luminaire Tested: **GALN-SB9D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63211 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

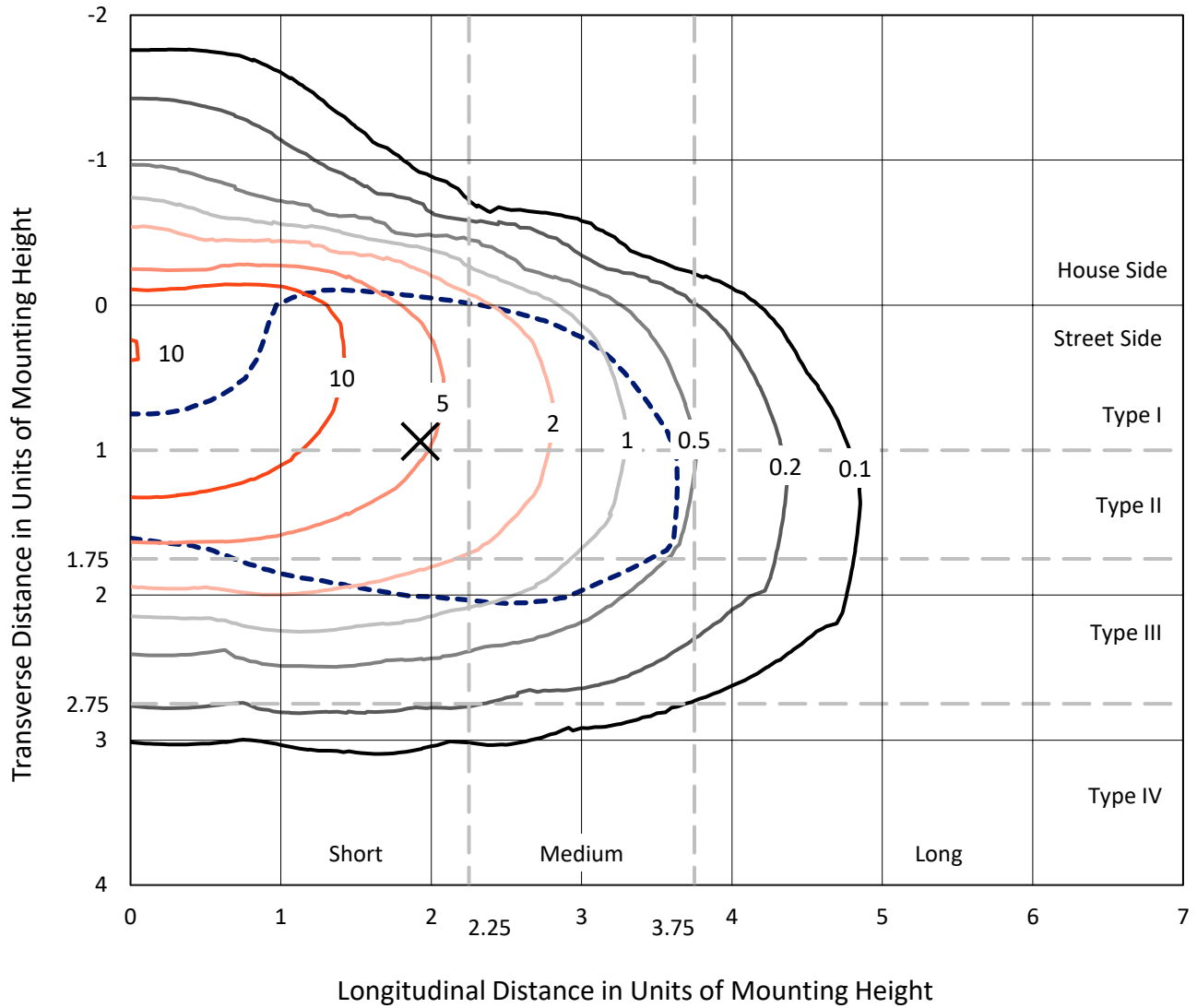
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

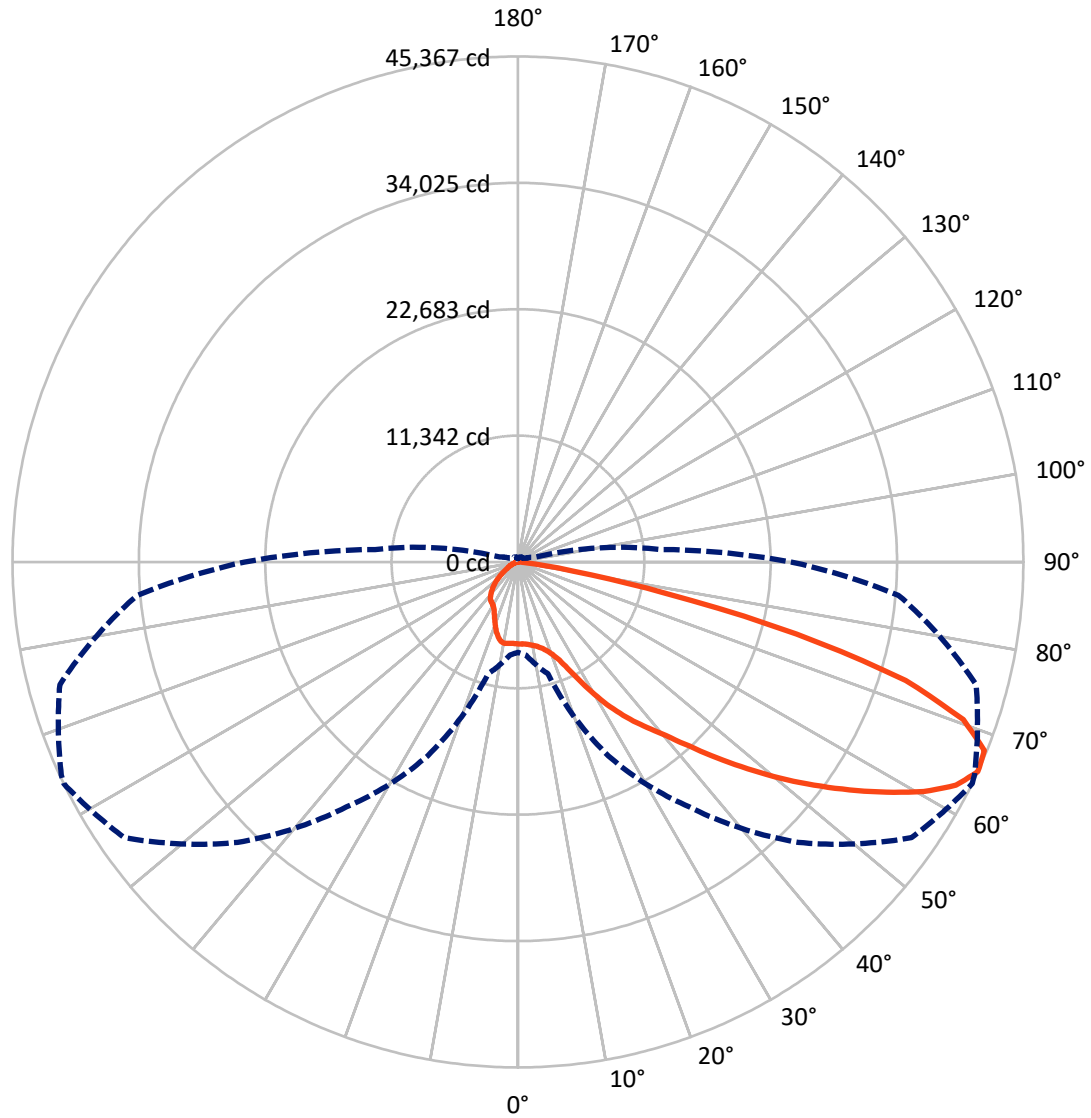
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8453.2	0.0	8453.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	54757.8	0.0	54757.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	63211.0	0.0	63211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.3	1.1
10°-20°	1839.8	2.9
20°-30°	3486.2	5.5
30°-40°	7054.4	11.2
40°-50°	12017.2	19.0
50°-60°	16342.5	25.9
60°-70°	15346.4	24.3
70°-80°	6148.4	9.7
80°-90°	297.9	0.5
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°	63211.0	100.0
0°-180°	63211.0	100.0

Coefficient of Utilization



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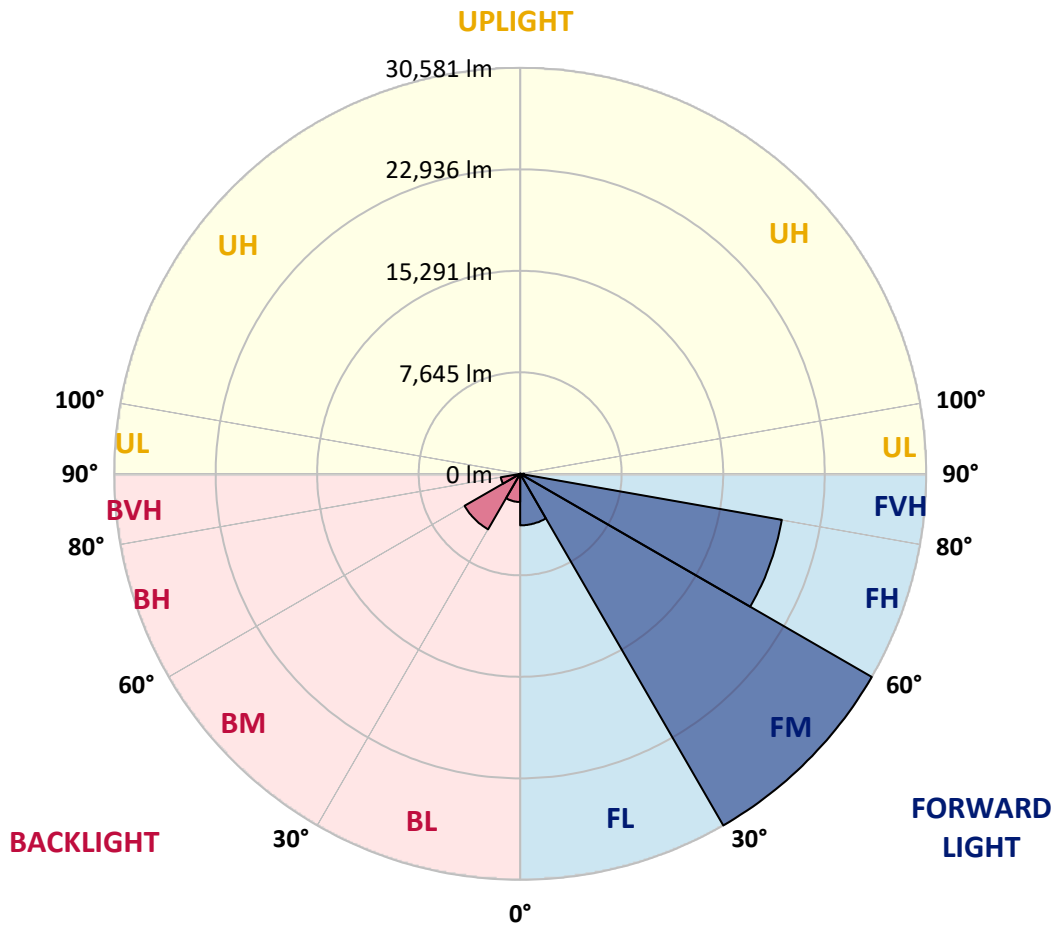
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3881.9	6.1			
FM (30°-60°)	30581.4	48.4			
FH (60°-80°)	20011.2	31.7			G5
FVH (80°-90°)	283.3	0.4			G3/500
BL (0°-30°)	2122.4	3.4	B3/2500		
BM (30°-60°)	4832.7	7.6	B3/5000		
BH (60°-80°)	1483.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	14.5	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1
2.5°	7326.7	7377.5	7364.8	7352.1	7347.9	7356.3	7360.6	7356.3	7356.3	7356.3
5°	7186.8	7229.2	7229.2	7258.9	7301.2	7352.1	7390.2	7398.7	7407.2	7419.9
7.5°	6919.9	6953.8	6979.2	7076.7	7182.6	7318.2	7432.6	7491.9	7500.4	7547.0
10°	6737.7	6780.0	6822.4	6924.1	7076.7	7280.1	7475.0	7619.1	7640.2	7750.4
12.5°	6729.2	6771.6	6826.6	6936.8	7114.8	7330.9	7568.2	7775.8	7814.0	7975.0
15°	6818.2	6869.0	6919.9	7055.5	7246.2	7508.9	7763.1	8021.6	8059.8	8288.6
17.5°	7000.4	7068.2	7106.3	7241.9	7445.3	7737.7	8072.5	8369.1	8403.0	8670.0
20°	7360.6	7441.1	7453.8	7564.0	7763.1	8076.7	8475.0	8843.7	8886.1	9191.2
22.5°	8106.4	8220.8	8119.1	8174.2	8352.2	8665.7	9098.0	9564.1	9623.4	9970.9
25°	9420.0	9581.0	9318.3	9225.1	9301.4	9627.6	10170.0	10759.1	10826.9	11106.5
27.5°	12000.7	11793.0	11394.7	11004.8	10776.0	10962.5	11572.7	12301.5	12386.3	12657.5
30°	14835.6	14653.3	14115.2	13250.7	12708.3	12678.7	13242.2	14055.9	14153.3	14411.8
32.5°	17674.7	17501.0	16916.2	15852.6	14911.8	14445.7	14835.6	15738.1	15789.0	15954.3
35°	20467.2	20289.2	19704.5	18615.4	17458.6	16399.2	16322.9	17339.9	17356.9	17530.6
37.5°	23276.7	23128.4	22505.5	21437.6	20297.7	18835.8	18128.1	18857.0	18878.1	19047.6
40°	25281.0	25344.6	24916.6	24090.3	23111.4	21513.9	20153.6	20471.5	20344.3	20628.2
42.5°	27001.5	27128.6	26755.7	26340.4	25772.6	24365.7	22662.3	22607.2	22403.8	22556.3
45°	28488.8	28594.8	28260.0	28162.6	28149.8	27162.5	25403.9	25073.4	24789.5	24759.8
47.5°	29035.5	29238.9	29383.0	29709.2	30344.9	29929.6	28238.8	27726.1	27408.3	27175.2
50°	29243.1	29459.2	29950.8	30900.0	32404.3	32582.3	31061.0	30484.7	30094.9	29671.1
52.5°	28963.4	29349.1	30010.1	31607.7	33790.0	34709.5	33768.8	33264.5	32819.6	32128.9
55°	27315.0	27700.7	29052.4	31599.2	34480.7	36201.1	36328.3	36103.7	35603.6	34514.6
57.5°	23840.3	24412.3	26552.3	30522.9	34468.0	37485.1	38836.9	38997.9	38438.5	36879.1
60°	19026.5	19801.9	22412.2	28137.1	33404.4	38180.0	41036.1	41841.3	41248.0	39209.8
62.5°	13276.1	14174.5	16645.0	24399.6	30972.0	37680.0	42642.2	44129.5	43680.3	41294.6
65°	8097.9	8386.1	10377.7	19200.2	26836.2	35586.7	43137.9	45366.9	45218.6	42570.1
67.5°	5394.4	5635.9	6208.0	13166.0	20831.6	31404.3	41951.4	45150.8	45193.1	42362.5
70°	3250.2	3457.8	3830.7	7657.2	13500.7	24857.3	38277.5	42396.4	42642.2	39586.9
72.5°	1339.1	1478.9	1817.9	3470.5	6991.9	15776.3	30480.5	36400.3	36972.4	33285.7
75°	758.5	830.6	1067.9	1741.6	3034.1	7352.1	18462.9	25840.4	26683.7	22941.9
77.5°	504.3	538.2	690.7	1127.2	1707.7	2508.6	7890.3	13462.6	15072.9	12530.3
80°	339.0	368.7	474.6	754.3	1110.2	1076.3	2512.8	4987.6	6135.9	4305.3
82.5°	228.8	233.1	339.0	495.8	703.4	521.2	741.6	1550.9	1949.3	1245.8
85°	131.4	127.1	250.0	288.2	313.6	216.1	224.6	466.1	610.2	525.5
87.5°	17.0	25.4	97.5	76.3	42.4	46.6	46.6	80.5	118.7	127.1
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°
7352.1	0°	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1	7352.1
7360.6	2.5°	7360.6	7356.3	7343.6	7330.9	7301.2	7284.3	7292.8	7284.3	7280.1	7284.3
7415.7	5°	7415.7	7402.9	7369.0	7326.7	7267.3	7195.3	7148.7	7080.9	7017.3	6979.2
7564.0	7.5°	7564.0	7551.3	7504.6	7386.0	7195.3	6894.4	6619.0	6377.5	6195.3	6089.3
7801.3	10°	7801.3	7780.1	7708.0	7445.3	6945.3	6288.5	5741.8	5288.4	4991.8	4852.0
8080.9	12.5°	8080.9	8055.5	7928.4	7390.2	6470.7	5445.2	4690.9	4186.7	3911.2	3788.3
8403.0	15°	8411.5	8377.6	8127.6	7127.5	5780.0	4513.0	3822.2	3445.1	3267.1	3157.0
8814.0	17.5°	8822.5	8763.2	8275.9	6733.4	5029.9	3801.1	3288.3	3004.4	2847.6	2741.7
9352.2	20°	9356.4	9259.0	8394.5	6263.1	4339.2	3351.9	2928.1	2690.8	2572.2	2478.9
10115.0	22.5°	10102.2	9962.4	8538.6	5754.6	3851.9	3042.5	2661.2	2487.4	2390.0	2284.0
11178.6	25°	11026.0	10860.8	8716.6	5284.2	3517.1	2775.6	2466.2	2322.2	2207.7	2084.9
12572.7	27.5°	12318.5	12021.8	8928.5	4898.6	3229.0	2546.7	2288.3	2127.2	1995.9	1894.2
14153.3	30°	13759.2	13271.9	9114.9	4665.5	2966.3	2334.9	2055.2	1894.2	1771.3	1699.2
15572.9	32.5°	15123.7	14462.7	9237.8	4563.8	2729.0	2093.3	1800.9	1627.2	1534.0	1512.8
16962.8	35°	16411.9	15539.0	9225.1	4466.3	2517.1	1851.8	1550.9	1373.0	1300.9	1313.6
18458.6	37.5°	17895.0	16687.4	9136.1	4313.8	2343.3	1631.4	1334.8	1178.0	1114.5	1118.7
20276.5	40°	19619.7	18013.7	9081.0	4025.6	2152.7	1428.0	1156.8	1029.7	983.1	966.2
22191.9	42.5°	21458.8	19297.7	9089.5	3699.4	1915.4	1245.8	1034.0	928.0	885.6	872.9
24323.4	45°	23306.4	20522.3	9102.2	3360.4	1665.3	1106.0	945.0	856.0	830.6	813.6
26484.5	47.5°	25043.7	21564.7	8864.9	2995.9	1419.6	1000.1	872.9	813.6	792.4	771.2
28654.1	50°	26662.5	22259.7	8292.8	2572.2	1224.6	915.3	817.8	775.5	754.3	733.1
30620.3	52.5°	27921.0	22369.9	7347.9	2135.7	1089.0	851.7	783.9	745.8	720.4	699.2
32209.4	55°	28480.4	21679.1	6004.6	1728.9	983.1	796.7	750.0	711.9	682.2	661.1
33459.5	57.5°	28336.3	20225.7	4682.5	1389.9	881.4	741.6	707.7	682.2	648.3	614.4
34472.2	60°	27628.6	18280.7	3529.9	1156.8	788.2	682.2	661.1	639.9	593.3	542.4
34862.1	62.5°	26404.0	15835.6	2517.1	957.7	686.5	614.4	606.0	589.0	521.2	428.0
34285.8	65°	24531.0	12865.1	1695.0	796.7	589.0	538.2	542.4	512.7	423.8	317.8
32175.5	67.5°	21793.6	9407.3	1084.8	652.6	491.6	449.2	453.4	436.5	360.2	271.2
28175.3	70°	18306.1	6229.2	707.7	495.8	394.1	347.5	372.9	377.1	305.1	220.4
21624.1	72.5°	13420.2	3678.2	495.8	368.7	288.2	241.5	305.1	313.6	245.8	165.3
13009.2	75°	7648.7	1745.9	372.9	267.0	178.0	169.5	237.3	237.3	169.5	110.2
5631.7	77.5°	3212.0	728.9	262.7	173.7	101.7	97.5	161.0	148.3	84.8	50.9
1373.0	80°	928.0	326.3	139.8	84.8	42.4	38.1	63.6	46.6	21.2	8.5
521.2	82.5°	364.4	144.1	55.1	33.9	17.0	17.0	8.5	0.0	0.0	0.0
296.6	85°	216.1	59.3	25.4	12.7	4.2	0.0	0.0	0.0	0.0	0.0
63.6	87.5°	55.1	12.7	8.5	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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<u>180°</u>
7352.1
7301.2
6987.7
6093.6
4839.2
3775.6
3161.2
2733.2
2462.0
2267.1
2072.1
1873.0
1686.5
1525.5
1313.6
1135.7
961.9
868.7
813.6
771.2
733.1
695.0
656.8
610.2
533.9
419.5
309.3
258.5
211.9
156.8
101.7
50.9
8.5
0.0
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