

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: P943336

Luminaire Tested: **GALN-SB7D-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943336
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-SB7D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 56757 lumens
Efficiency: N/A
Efficacy: 110.7 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

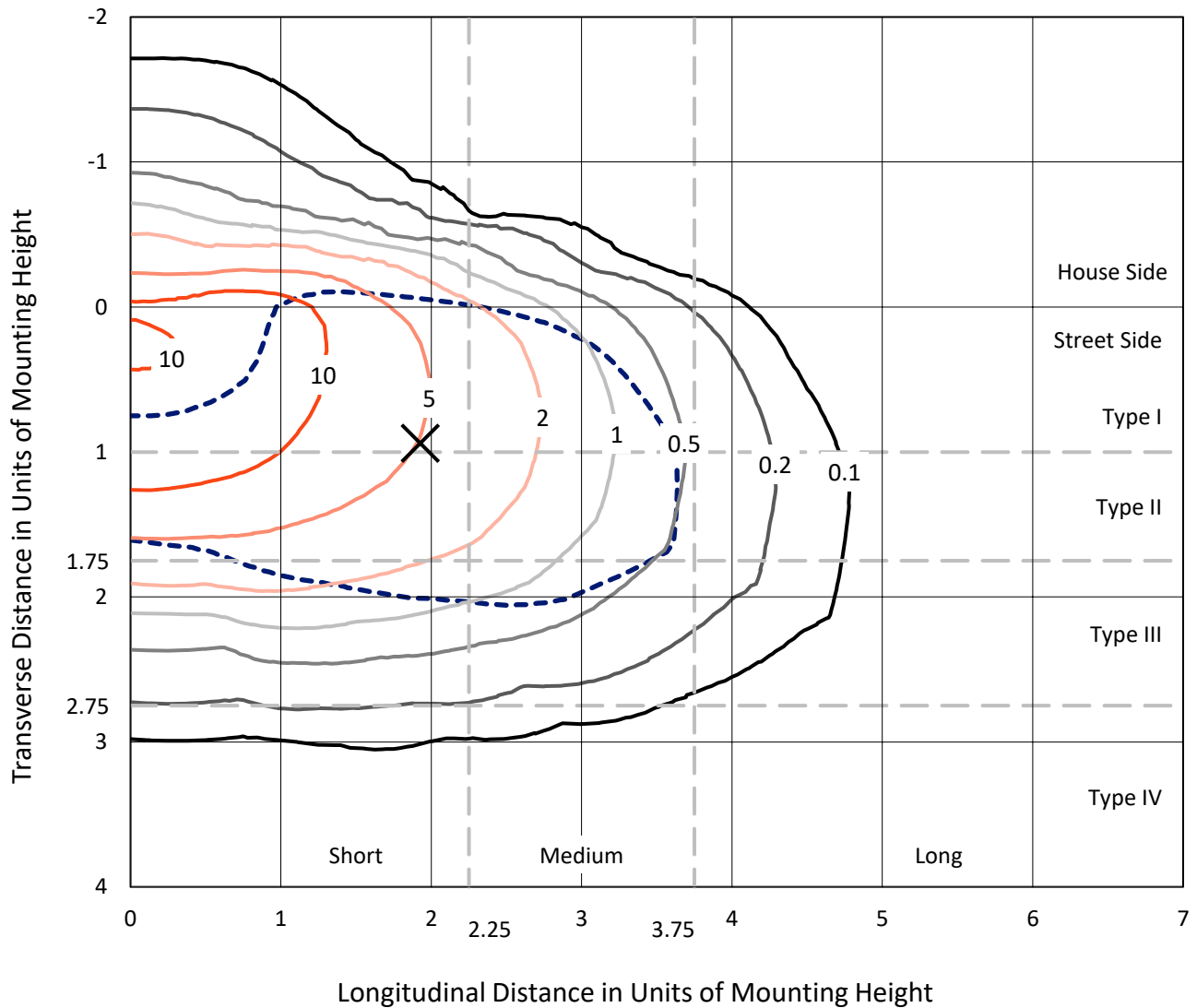
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

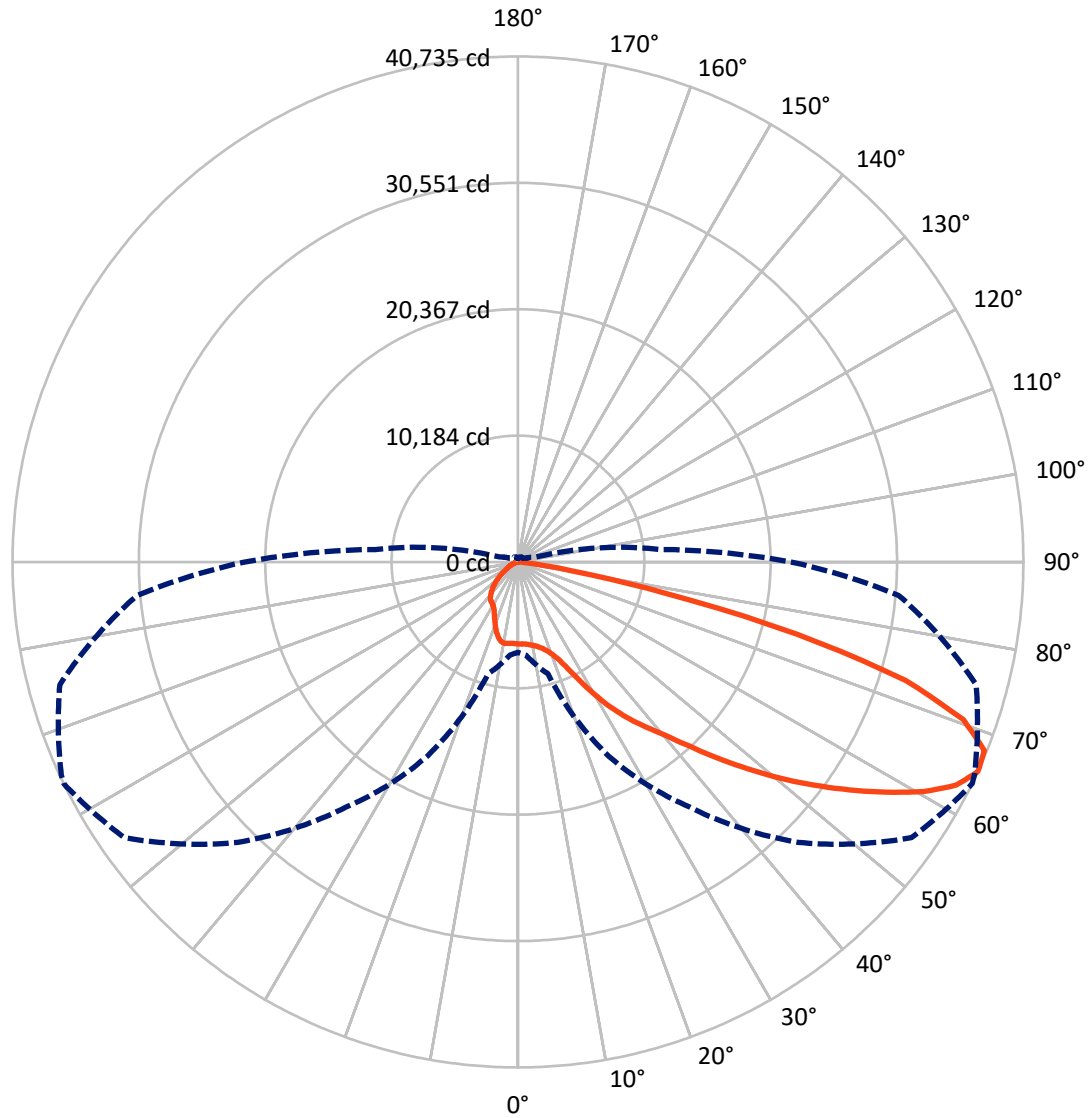
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 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	7590.1	0.0	7590.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	49166.9	0.0	49166.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	56757.0	0.0	56757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.1	1.1
10°-20°	1651.9	2.9
20°-30°	3130.2	5.5
30°-40°	6334.1	11.2
40°-50°	10790.2	19.0
50°-60°	14673.9	25.9
60°-70°	13779.5	24.3
70°-80°	5520.7	9.7
80°-90°	267.5	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°	56757.0	100.0
0°-180°	56757.0	100.0

Coefficient of Utilization



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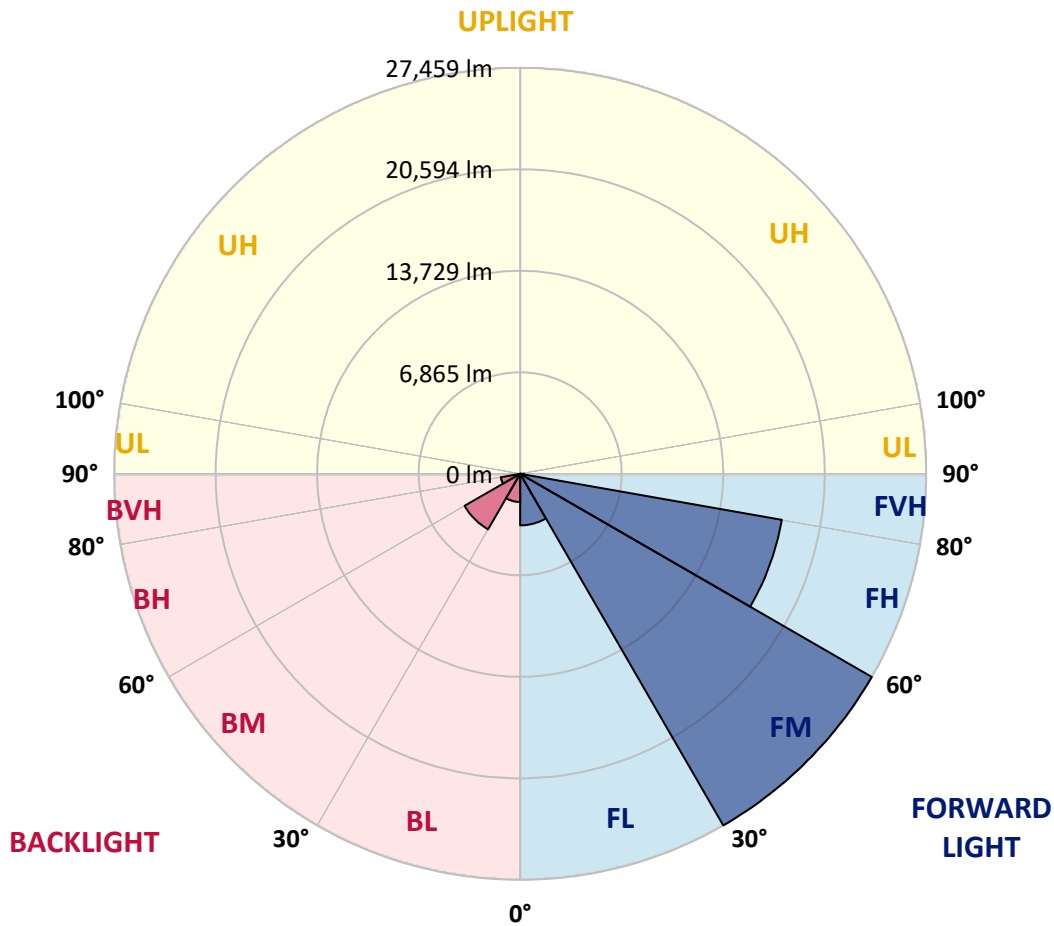
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3485.5	6.1			
FM (30°-60°)	27459.0	48.4			
FH (60°-80°)	17968.0	31.7			G5
FVH (80°-90°)	254.4	0.4			G3/500
BL (0°-30°)	1905.7	3.4	B3/2500		
BM (30°-60°)	4339.2	7.6	B3/5000		
BH (60°-80°)	1332.2	2.3	B3/2500		G3/2500
BVH (80°-90°)	13.1	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°	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4
2.5°	6578.6	6624.3	6612.8	6601.4	6597.6	6605.2	6609.0	6605.2	6605.2	6605.2
5°	6453.0	6491.1	6491.1	6517.7	6555.8	6601.4	6635.7	6643.3	6650.9	6662.3
7.5°	6213.3	6243.8	6266.6	6354.1	6449.2	6571.0	6673.7	6727.0	6734.6	6776.5
10°	6049.7	6087.8	6125.8	6217.1	6354.1	6536.7	6711.8	6841.1	6860.2	6959.1
12.5°	6042.1	6080.2	6129.6	6228.6	6388.4	6582.4	6795.5	6981.9	7016.2	7160.7
15°	6122.0	6167.7	6213.3	6335.1	6506.3	6742.2	6970.5	7202.6	7236.8	7442.3
17.5°	6285.6	6346.5	6380.7	6502.5	6685.1	6947.7	7248.3	7514.6	7545.0	7784.7
20°	6609.0	6681.3	6692.7	6791.7	6970.5	7252.1	7609.7	7940.7	7978.8	8252.7
22.5°	7278.7	7381.4	7290.1	7339.6	7499.4	7780.9	8169.0	8587.6	8640.8	8952.8
25°	8458.2	8602.8	8366.9	8283.2	8351.7	8644.6	9131.7	9660.5	9721.4	9972.5
27.5°	10775.4	10588.9	10231.3	9881.2	9675.8	9843.2	10391.1	11045.5	11121.6	11365.1
30°	13320.8	13157.2	12674.0	11897.8	11410.8	11384.1	11890.2	12620.7	12708.2	12940.3
32.5°	15870.1	15714.1	15189.0	14234.0	13389.3	12970.8	13320.8	14131.2	14176.9	14325.3
35°	18377.5	18217.7	17692.6	16714.7	15676.0	14724.8	14656.3	15569.5	15584.7	15740.7
37.5°	20900.1	20766.9	20207.6	19248.8	18225.3	16912.6	16277.2	16931.6	16950.6	17102.8
40°	22699.8	22756.9	22372.6	21630.6	20751.7	19317.3	18095.9	18381.3	18267.1	18522.0
42.5°	24244.6	24358.7	24023.9	23651.0	23141.1	21877.9	20348.4	20298.9	20116.3	20253.3
45°	25580.1	25675.2	25374.6	25287.1	25275.7	24389.1	22810.1	22513.3	22258.4	22231.8
47.5°	26070.9	26253.5	26382.9	26675.9	27246.6	26873.7	25355.6	24895.2	24609.8	24400.6
50°	26257.3	26451.4	26892.7	27745.0	29095.7	29255.6	27889.6	27372.1	27022.1	26641.6
52.5°	26006.2	26352.4	26946.0	28380.4	30339.9	31165.6	30320.9	29868.1	29468.6	28848.4
55°	24526.1	24872.4	26086.1	28372.8	30960.1	32504.9	32619.0	32417.4	31968.4	30990.6
57.5°	21406.1	21919.8	23841.2	27406.4	30948.7	33657.8	34871.5	35016.1	34513.9	33113.7
60°	17083.8	17780.1	20123.9	25264.3	29993.7	34281.8	36846.2	37569.2	37036.5	35206.4
62.5°	11920.6	12727.2	14945.5	21908.4	27809.7	33832.8	38288.3	39623.8	39220.5	37078.3
65°	7271.1	7529.8	9318.1	17239.8	24096.2	31953.2	38733.5	40734.8	40601.6	38223.6
67.5°	4843.6	5060.5	5574.1	11821.7	18704.7	28197.8	37668.1	40540.8	40578.8	38037.2
70°	2918.3	3104.8	3439.6	6875.4	12122.3	22319.3	34369.3	38067.6	38288.3	35545.0
72.5°	1202.3	1327.9	1632.3	3116.2	6278.0	14165.5	27368.3	32683.7	33197.4	29887.2
75°	681.1	745.8	958.8	1563.8	2724.3	6601.4	16577.8	23202.0	23959.2	20599.5
77.5°	452.8	483.2	620.2	1012.1	1533.4	2252.5	7084.6	12088.0	13533.9	11251.0
80°	304.4	331.0	426.1	677.3	996.9	966.4	2256.3	4478.3	5509.4	3865.7
82.5°	205.5	209.3	304.4	445.2	631.6	468.0	665.9	1392.6	1750.2	1118.6
85°	118.0	114.1	224.5	258.7	281.6	194.0	201.7	418.5	547.9	471.8
87.5°	15.2	22.8	87.5	68.5	38.0	41.9	41.9	72.3	106.5	114.1
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°
6601.4	0°	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4	6601.4
6609.0	2.5°	6609.0	6605.2	6593.8	6582.4	6555.8	6540.6	6548.2	6540.6	6536.7	6540.6
6658.5	5°	6658.5	6647.1	6616.6	6578.6	6525.3	6460.6	6418.8	6357.9	6300.8	6266.6
6791.7	7.5°	6791.7	6780.3	6738.4	6631.9	6460.6	6190.5	5943.2	5726.3	5562.7	5467.6
7004.7	10°	7004.7	6985.7	6921.0	6685.1	6236.2	5646.4	5155.6	4748.5	4482.1	4356.6
7255.9	12.5°	7255.9	7233.0	7118.9	6635.7	5810.0	4889.2	4212.0	3759.2	3511.9	3401.5
7545.0	15°	7552.6	7522.2	7297.7	6399.8	5189.8	4052.2	3432.0	3093.3	2933.5	2834.6
7914.1	17.5°	7921.7	7868.4	7430.9	6045.9	4516.4	3413.0	2952.6	2697.6	2556.9	2461.7
8397.3	20°	8401.1	8313.6	7537.4	5623.6	3896.2	3009.6	2629.2	2416.1	2309.5	2225.8
9082.2	22.5°	9070.8	8945.2	7666.8	5167.0	3458.6	2731.9	2389.5	2233.5	2145.9	2050.8
10037.2	25°	9900.2	9751.9	7826.6	4744.7	3158.0	2492.2	2214.4	2085.1	1982.3	1872.0
11289.0	27.5°	11060.7	10794.4	8016.8	4398.4	2899.3	2286.7	2054.6	1910.0	1792.1	1700.8
12708.2	30°	12354.4	11916.8	8184.2	4189.1	2663.4	2096.5	1845.4	1700.8	1590.4	1525.7
13982.9	32.5°	13579.5	12986.0	8294.6	4097.8	2450.3	1879.6	1617.1	1461.1	1377.4	1358.3
15230.8	35°	14736.2	13952.4	8283.2	4010.3	2260.1	1662.7	1392.6	1232.8	1168.1	1179.5
16574.0	37.5°	16067.9	14983.5	8203.3	3873.3	2104.1	1464.9	1198.5	1057.8	1000.7	1004.5
18206.2	40°	17616.5	16174.5	8153.8	3614.6	1932.9	1282.2	1038.7	924.6	882.7	867.5
19926.0	42.5°	19267.8	17327.3	8161.4	3321.6	1719.8	1118.6	928.4	833.3	795.2	783.8
21839.9	45°	20926.7	18426.9	8172.8	3017.3	1495.3	993.1	848.5	768.6	745.8	730.5
23780.4	47.5°	22486.7	19362.9	7959.8	2690.0	1274.6	897.9	783.8	730.5	711.5	692.5
25728.4	50°	23940.2	19986.9	7446.1	2309.5	1099.6	821.8	734.3	696.3	677.3	658.2
27493.9	52.5°	25070.2	20085.8	6597.6	1917.6	977.8	764.8	703.9	669.7	646.8	627.8
28920.7	55°	25572.4	19465.7	5391.5	1552.4	882.7	715.3	673.5	639.2	612.6	593.6
30043.2	57.5°	25443.1	18160.6	4204.4	1248.0	791.4	665.9	635.4	612.6	582.1	551.7
30952.5	60°	24807.7	16414.2	3169.4	1038.7	707.7	612.6	593.6	574.5	532.7	487.0
31302.6	62.5°	23708.1	14218.8	2260.1	859.9	616.4	551.7	544.1	528.9	468.0	384.3
30785.1	65°	22026.3	11551.5	1521.9	715.3	528.9	483.2	487.0	460.4	380.5	285.4
28890.3	67.5°	19568.4	8446.8	974.0	585.9	441.4	403.3	407.1	391.9	323.4	243.5
25298.5	70°	16437.0	5593.1	635.4	445.2	353.9	312.0	334.8	338.6	273.9	197.9
19416.2	72.5°	12050.0	3302.6	445.2	331.0	258.7	216.9	273.9	281.6	220.7	148.4
11680.9	75°	6867.8	1567.6	334.8	239.7	159.8	152.2	213.1	213.1	152.2	98.9
5056.7	77.5°	2884.1	654.4	235.9	156.0	91.3	87.5	144.6	133.2	76.1	45.7
1232.8	80°	833.3	293.0	125.6	76.1	38.0	34.2	57.1	41.9	19.0	7.6
468.0	82.5°	327.2	129.4	49.5	30.4	15.2	15.2	7.6	0.0	0.0	0.0
266.3	85°	194.0	53.3	22.8	11.4	3.8	0.0	0.0	0.0	0.0	0.0
57.1	87.5°	49.5	11.4	7.6	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>
6601.4
6555.8
6274.2
5471.4
4345.1
3390.1
2838.4
2454.1
2210.6
2035.6
1860.6
1681.7
1514.3
1369.7
1179.5
1019.7
863.7
780.0
730.5
692.5
658.2
624.0
589.8
547.9
479.4
376.7
277.8
232.1
190.2
140.8
91.3
45.7
7.6
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