

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: P944536

Luminaire Tested: **GALN-SB9C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944536
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-SB9C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 56599 lumens
Efficiency: N/A
Efficacy: 125.8 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

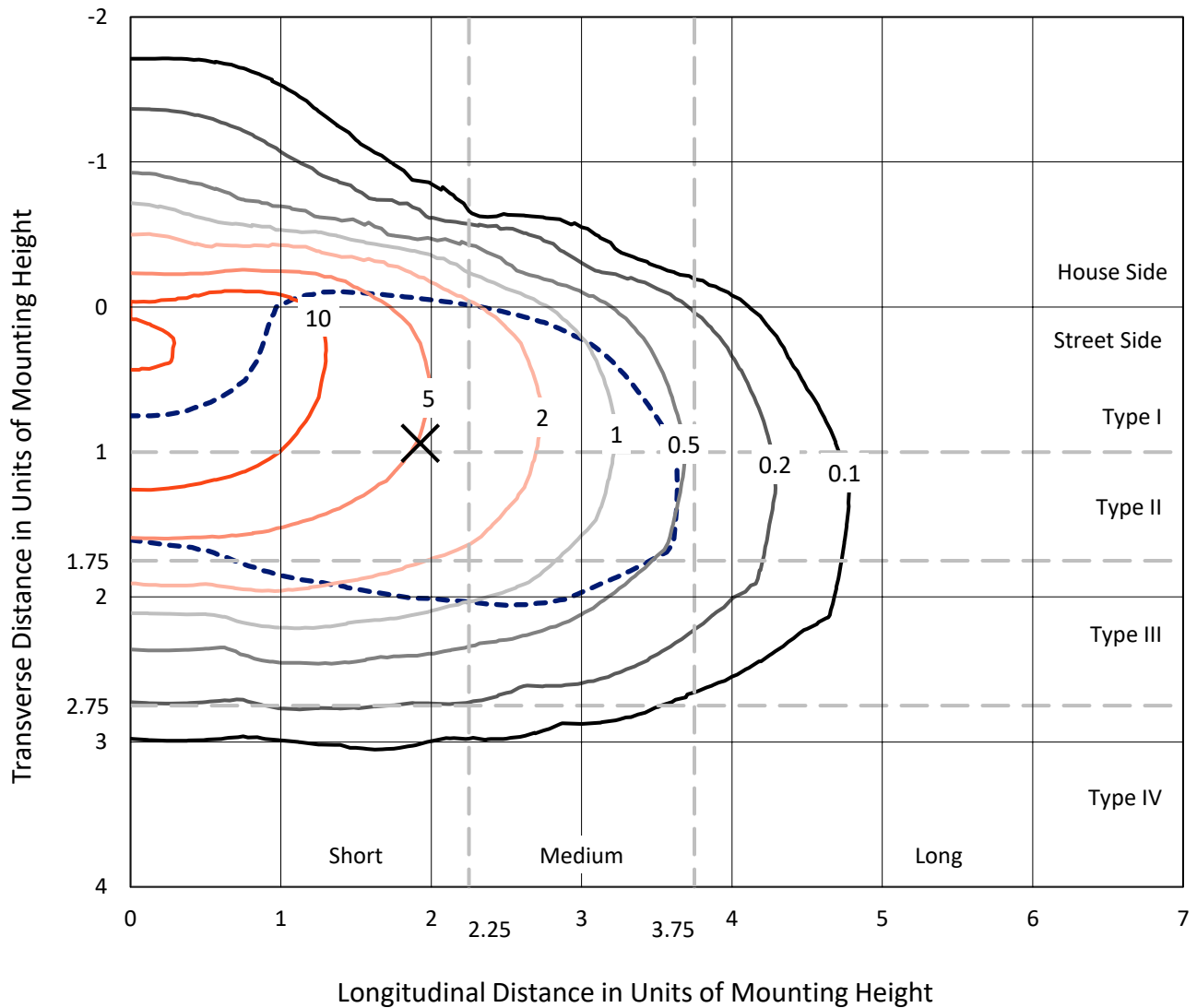
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

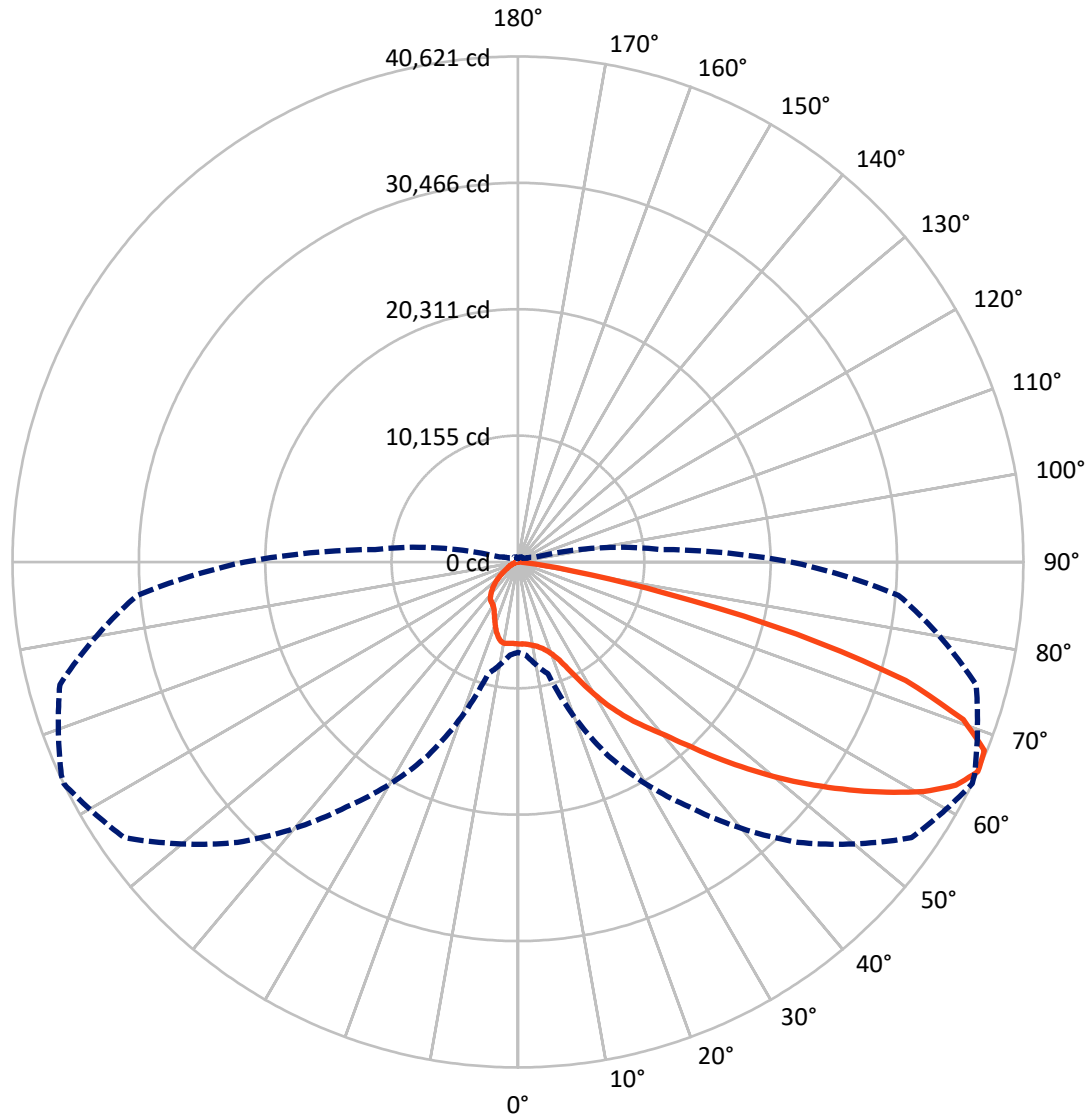
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	7569.0	0.0	7569.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	49030.0	0.0	49030.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	56599.0	0.0	56599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.4	1.1
10°-20°	1647.3	2.9
20°-30°	3121.5	5.5
30°-40°	6316.5	11.2
40°-50°	10760.2	19.0
50°-60°	14633.0	25.9
60°-70°	13741.1	24.3
70°-80°	5505.3	9.7
80°-90°	266.7	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°	56599.0	100.0
0°-180°	56599.0	100.0

Coefficient of Utilization



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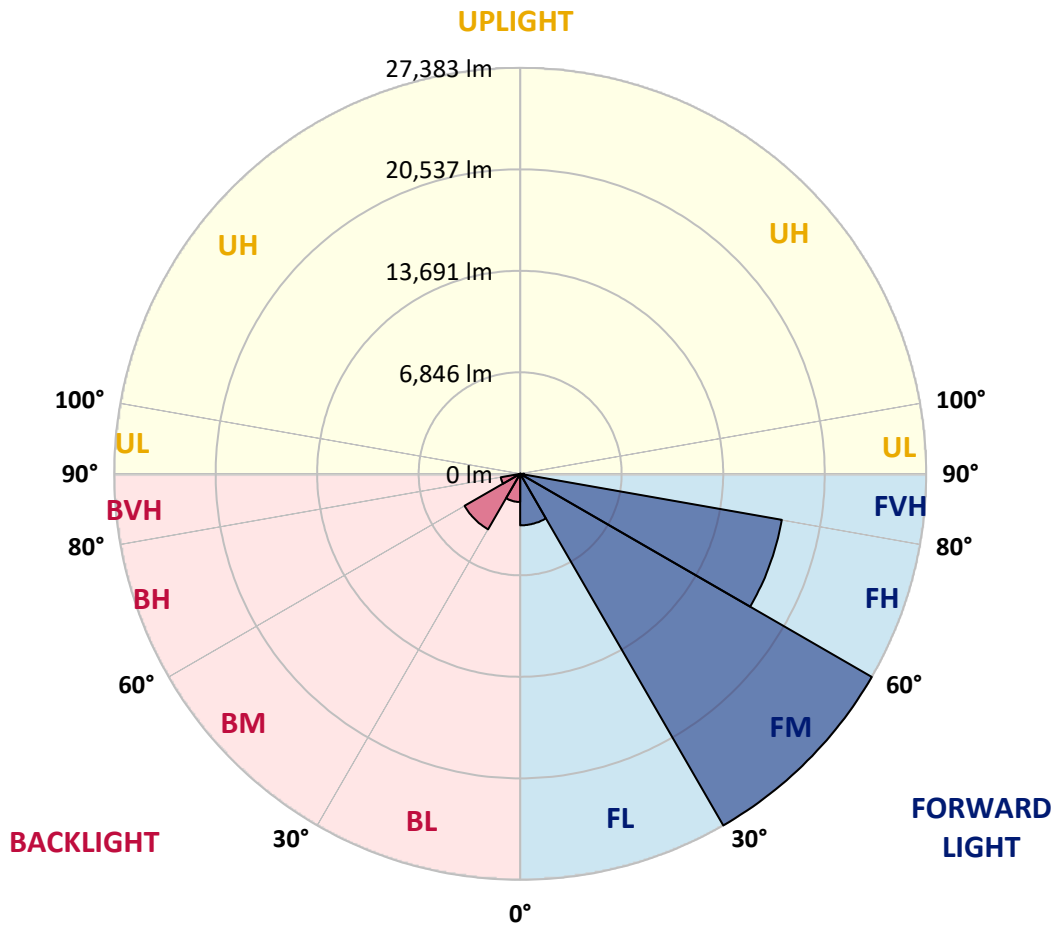
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3475.8	6.1			
FM (30°-60°)	27382.5	48.4			
FH (60°-80°)	17917.9	31.7			G5
FVH (80°-90°)	253.7	0.4			G3/500
BL (0°-30°)	1900.4	3.4	B3/2500		
BM (30°-60°)	4327.1	7.6	B3/5000		
BH (60°-80°)	1328.5	2.3	B3/2500		G3/2500
BVH (80°-90°)	13.0	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°	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1
2.5°	6560.3	6605.8	6594.4	6583.1	6579.3	6586.8	6590.6	6586.8	6586.8	6586.8
5°	6435.1	6473.0	6473.0	6499.6	6537.5	6583.1	6617.2	6624.8	6632.4	6643.8
7.5°	6196.0	6226.4	6249.2	6336.4	6431.3	6552.7	6655.1	6708.3	6715.9	6757.6
10°	6032.9	6070.8	6108.8	6199.8	6336.4	6518.5	6693.1	6822.1	6841.1	6939.7
12.5°	6025.3	6063.2	6112.6	6211.2	6370.6	6564.1	6776.6	6962.5	6996.6	7140.8
15°	6105.0	6150.5	6196.0	6317.5	6488.2	6723.4	6951.1	7182.5	7216.7	7421.6
17.5°	6268.1	6328.8	6363.0	6484.4	6666.5	6928.3	7228.1	7493.7	7524.0	7763.1
20°	6590.6	6662.7	6674.1	6772.8	6951.1	7231.9	7588.5	7918.6	7956.6	8229.8
22.5°	7258.4	7360.9	7269.8	7319.1	7478.5	7759.3	8146.3	8563.7	8616.8	8927.9
25°	8434.7	8578.8	8343.6	8260.1	8328.4	8620.6	9106.2	9633.6	9694.3	9944.8
27.5°	10745.4	10559.4	10202.8	9853.7	9648.8	9815.8	10362.1	11014.8	11090.6	11333.5
30°	13283.7	13120.6	12638.7	11864.7	11379.0	11352.4	11857.1	12585.6	12672.8	12904.3
32.5°	15825.9	15670.3	15146.7	14194.3	13352.0	12934.7	13283.7	14091.9	14137.4	14285.4
35°	18326.3	18166.9	17643.3	16668.2	15632.4	14683.8	14615.5	15526.1	15541.3	15696.9
37.5°	20841.9	20709.1	20151.3	19195.2	18174.5	16865.5	16231.9	16884.5	16903.5	17055.2
40°	22636.6	22693.5	22310.3	21570.4	20693.9	19263.5	18045.5	18330.1	18216.3	18470.5
42.5°	24177.1	24290.9	23957.0	23585.2	23076.7	21817.0	20291.7	20242.4	20060.3	20196.9
45°	25508.8	25603.7	25304.0	25216.7	25205.3	24321.2	22746.6	22450.7	22196.5	22169.9
47.5°	25998.3	26180.4	26309.4	26601.6	27170.7	26798.9	25285.0	24825.9	24541.3	24332.6
50°	26184.2	26377.7	26817.9	27667.8	29014.8	29174.1	27812.0	27295.9	26946.9	26567.5
52.5°	25933.8	26279.1	26871.0	28301.4	30255.5	31078.8	30236.5	29785.0	29386.6	28768.1
55°	24457.8	24803.1	26013.5	28293.8	30873.9	32414.4	32528.2	32327.1	31879.4	30904.3
57.5°	21346.5	21858.8	23774.9	27330.1	30862.6	33564.1	34774.4	34918.6	34417.8	33021.5
60°	17036.3	17730.6	20067.9	25193.9	29910.2	34186.3	36743.7	37464.6	36933.4	35108.3
62.5°	11887.4	12691.8	14903.9	21847.4	27732.3	33738.6	38181.7	39513.5	39111.3	36975.1
65°	7250.8	7508.9	9292.2	17191.8	24029.1	31864.2	38625.6	40621.4	40488.6	38117.2
67.5°	4830.1	5046.4	5558.6	11788.8	18652.6	28119.3	37563.2	40427.9	40465.8	37931.3
70°	2910.2	3096.1	3430.0	6856.2	12088.5	22257.2	34273.6	37961.6	38181.7	35446.0
72.5°	1199.0	1324.2	1627.7	3107.5	6260.5	14126.1	27292.2	32592.7	33105.0	29804.0
75°	679.2	743.7	956.2	1559.4	2716.7	6583.1	16531.6	23137.4	23892.5	20542.2
77.5°	451.5	481.9	618.5	1009.3	1529.1	2246.2	7064.9	12054.4	13496.2	11219.6
80°	303.5	330.1	425.0	675.4	994.1	963.7	2250.0	4465.9	5494.1	3855.0
82.5°	204.9	208.7	303.5	443.9	629.8	466.7	664.0	1388.7	1745.4	1115.5
85°	117.6	113.8	223.9	258.0	280.8	193.5	201.1	417.4	546.4	470.5
87.5°	15.2	22.8	87.3	68.3	37.9	41.7	41.7	72.1	106.2	113.8
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°
6583.1	0°	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1	6583.1
6590.6	2.5°	6590.6	6586.8	6575.5	6564.1	6537.5	6522.3	6529.9	6522.3	6518.5	6522.3
6640.0	5°	6640.0	6628.6	6598.2	6560.3	6507.2	6442.7	6400.9	6340.2	6283.3	6249.2
6772.8	7.5°	6772.8	6761.4	6719.6	6613.4	6442.7	6173.3	5926.6	5710.4	5547.2	5452.4
6985.2	10°	6985.2	6966.3	6901.8	6666.5	6218.8	5630.7	5141.2	4735.2	4469.6	4344.4
7235.7	12.5°	7235.7	7212.9	7099.1	6617.2	5793.8	4875.6	4200.3	3748.7	3502.1	3392.1
7524.0	15°	7531.6	7501.3	7277.4	6382.0	5175.4	4040.9	3422.4	3084.7	2925.4	2826.7
7892.1	17.5°	7899.7	7846.5	7410.2	6029.1	4503.8	3403.5	2944.4	2690.1	2549.7	2454.9
8373.9	20°	8377.7	8290.5	7516.4	5607.9	3885.3	3001.3	2621.8	2409.4	2303.1	2219.6
9056.9	22.5°	9045.5	8920.3	7645.4	5152.6	3449.0	2724.3	2382.8	2227.2	2140.0	2045.1
10009.3	25°	9872.7	9724.7	7804.8	4731.4	3149.2	2485.2	2208.3	2079.3	1976.8	1866.8
11257.6	27.5°	11029.9	10764.3	7994.5	4386.2	2891.2	2280.4	2048.9	1904.7	1787.1	1696.0
12672.8	30°	12320.0	11883.6	8161.5	4177.5	2656.0	2090.6	1840.2	1696.0	1586.0	1521.5
13943.9	32.5°	13541.7	12949.8	8271.5	4086.4	2443.5	1874.4	1612.6	1457.0	1373.5	1354.6
15188.4	35°	14695.2	13913.6	8260.1	3999.2	2253.8	1658.1	1388.7	1229.3	1164.8	1176.2
16527.8	37.5°	16023.2	14941.8	8180.4	3862.6	2098.2	1460.8	1195.2	1054.8	997.9	1001.7
18155.6	40°	17567.5	16129.4	8131.1	3604.6	1927.5	1278.7	1035.8	922.0	880.3	865.1
19870.6	42.5°	19214.2	17279.1	8138.7	3312.4	1715.0	1115.5	925.8	830.9	793.0	781.6
21779.1	45°	20868.5	18375.6	8150.1	3008.9	1491.1	990.3	846.1	766.4	743.7	728.5
23714.2	47.5°	22424.1	19309.0	7937.6	2682.5	1271.1	895.4	781.6	728.5	709.5	690.6
25656.8	50°	23873.5	19931.3	7425.4	2303.1	1096.5	819.6	732.3	694.4	675.4	656.4
27417.4	52.5°	25000.4	20029.9	6579.3	1912.3	975.1	762.6	701.9	667.8	645.0	626.1
28840.2	55°	25501.3	19411.5	5376.5	1548.1	880.3	713.3	671.6	637.4	610.9	591.9
29959.5	57.5°	25372.3	18110.0	4192.7	1244.5	789.2	664.0	633.6	610.9	580.5	550.2
30866.4	60°	24738.6	16368.5	3160.6	1035.8	705.7	610.9	591.9	572.9	531.2	485.7
31215.4	62.5°	23642.1	14179.2	2253.8	857.5	614.7	550.2	542.6	527.4	466.7	383.2
30699.4	65°	21965.0	11519.4	1517.7	713.3	527.4	481.9	485.7	459.1	379.4	284.6
28809.9	67.5°	19513.9	8423.3	971.3	584.3	440.1	402.2	406.0	390.8	322.5	242.8
25228.1	70°	16391.2	5577.6	633.6	443.9	352.9	311.1	333.9	337.7	273.2	197.3
19362.1	72.5°	12016.4	3293.4	443.9	330.1	258.0	216.3	273.2	280.8	220.1	148.0
11648.4	75°	6848.7	1563.2	333.9	239.0	159.4	151.8	212.5	212.5	151.8	98.7
5042.6	77.5°	2876.1	652.6	235.2	155.6	91.1	87.3	144.2	132.8	75.9	45.5
1229.3	80°	830.9	292.2	125.2	75.9	37.9	34.1	56.9	41.7	19.0	7.6
466.7	82.5°	326.3	129.0	49.3	30.4	15.2	15.2	7.6	0.0	0.0	0.0
265.6	85°	193.5	53.1	22.8	11.4	3.8	0.0	0.0	0.0	0.0	0.0
56.9	87.5°	49.3	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>
6583.1
6537.5
6256.7
5456.2
4333.1
3380.7
2830.5
2447.3
2204.5
2029.9
1855.4
1677.1
1510.1
1365.9
1176.2
1016.9
861.3
777.8
728.5
690.6
656.4
622.3
588.1
546.4
478.1
375.6
277.0
231.5
189.7
140.4
91.1
45.5
7.6
0.0
0.0
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