

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: P944026

Luminaire Tested: **GALN-SB8D-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944026
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-SB8D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 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: 68275 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

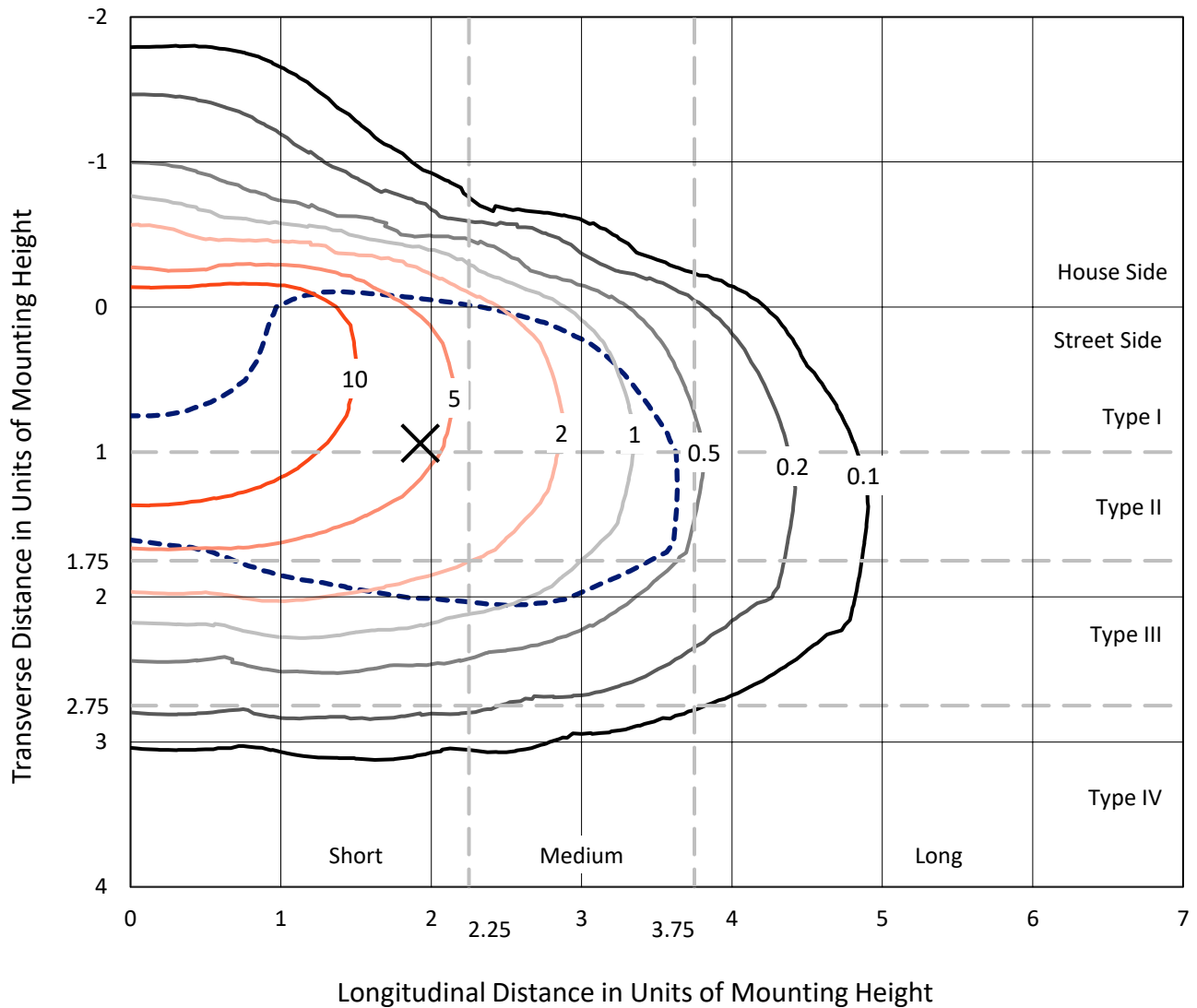
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

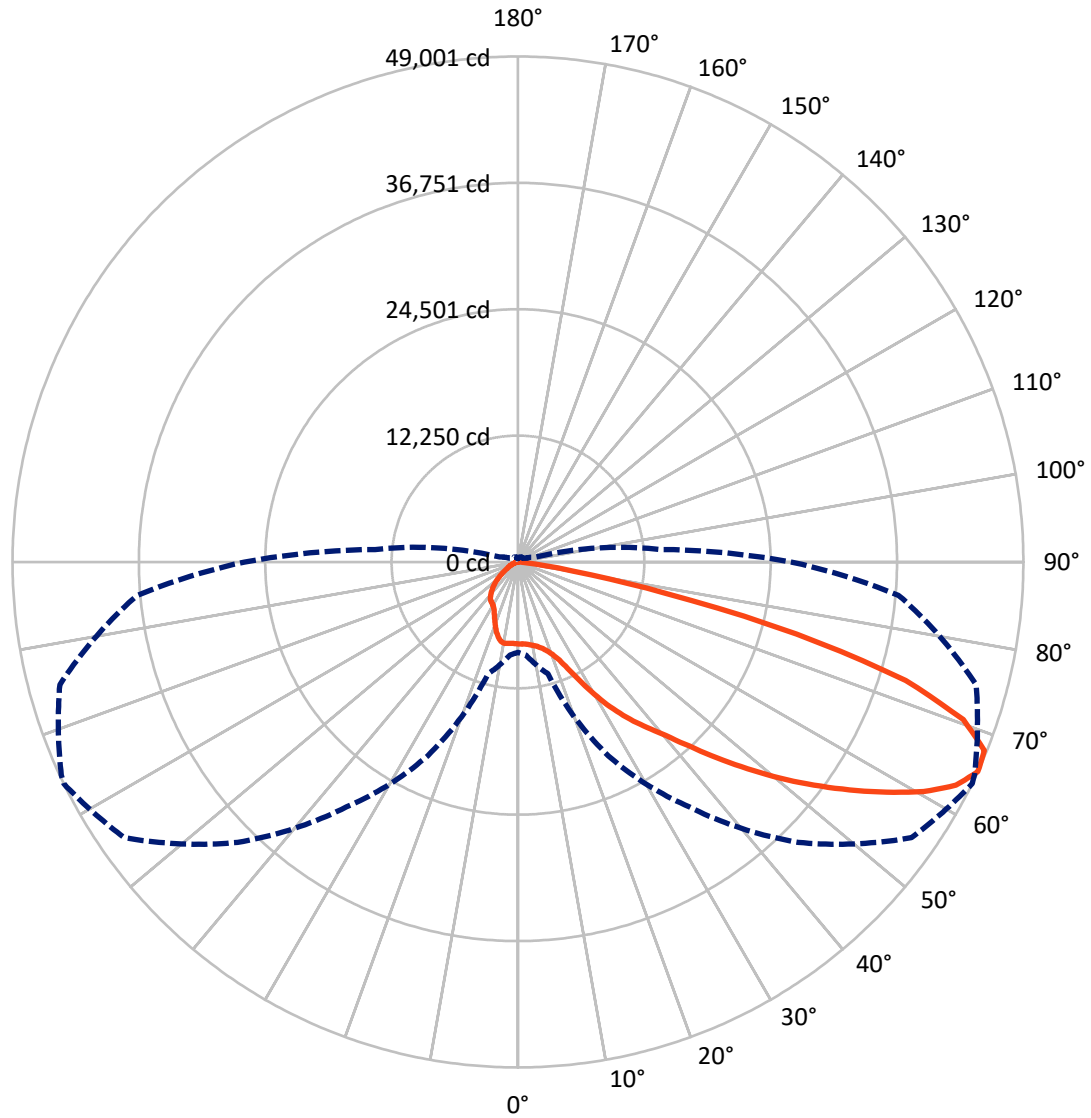
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 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	9130.4	0.0	9130.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	59144.6	0.0	59144.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	68275.0	0.0	68275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.6	1.1
10°-20°	1987.1	2.9
20°-30°	3765.5	5.5
30°-40°	7619.5	11.2
40°-50°	12979.9	19.0
50°-60°	17651.7	25.9
60°-70°	16575.8	24.3
70°-80°	6641.0	9.7
80°-90°	321.7	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°	68275.0	100.0
0°-180°	68275.0	100.0

Coefficient of Utilization



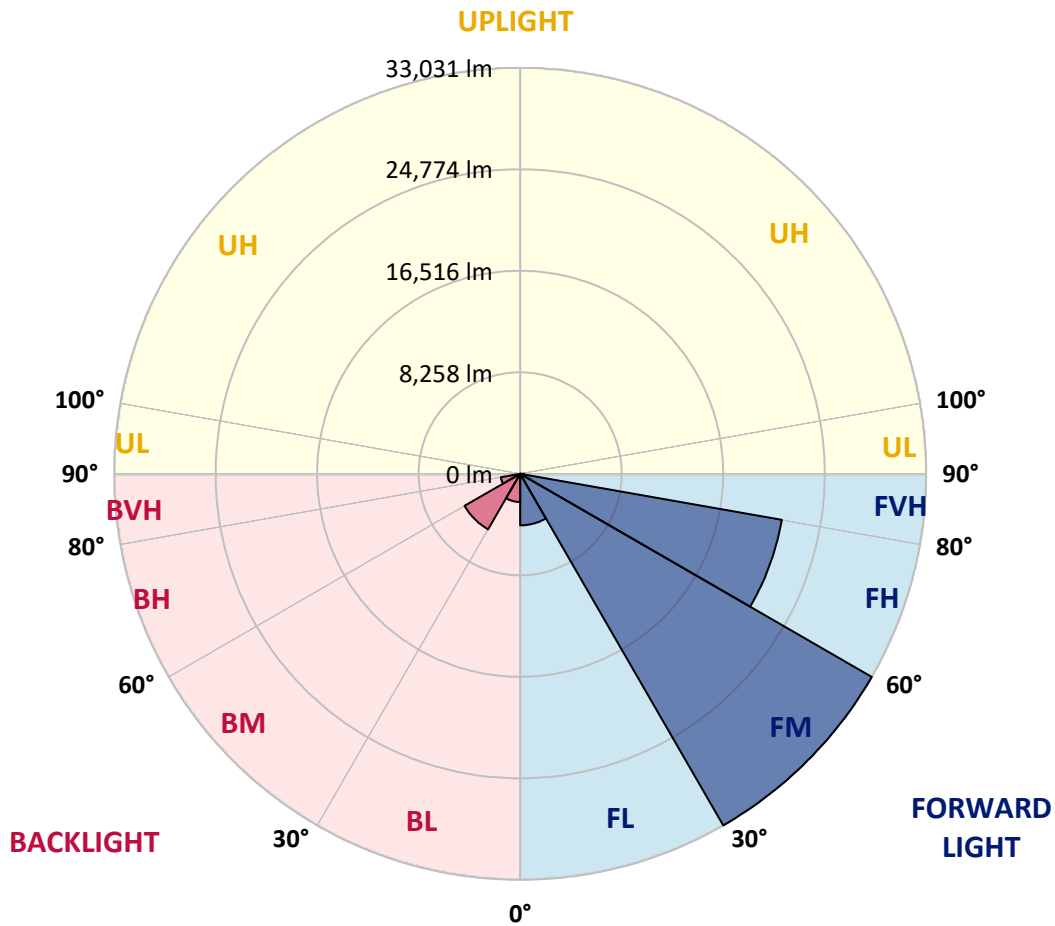
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4192.9	6.1			
FM (30°-60°)	33031.4	48.4			
FH (60°-80°)	21614.3	31.7			G5
FVH (80°-90°)	306.0	0.4			G3/500
BL (0°-30°)	2292.4	3.4	B3/2500		
BM (30°-60°)	5219.8	7.6	B4/8500		
BH (60°-80°)	1602.5	2.3	B3/2500		G3/2500
BVH (80°-90°)	15.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1
2.5°	7913.6	7968.6	7954.8	7941.1	7936.5	7945.7	7950.2	7945.7	7945.7	7945.7
5°	7762.6	7808.4	7808.4	7840.4	7886.2	7941.1	7982.3	7991.4	8000.6	8014.3
7.5°	7474.2	7510.9	7538.3	7643.6	7758.0	7904.5	8028.1	8092.1	8101.3	8151.6
10°	7277.4	7323.2	7369.0	7478.8	7643.6	7863.3	8073.8	8229.4	8252.3	8371.3
12.5°	7268.3	7314.0	7373.5	7492.5	7684.8	7918.2	8174.5	8398.8	8440.0	8613.9
15°	7364.4	7419.3	7474.2	7620.7	7826.7	8110.4	8385.1	8664.3	8705.5	8952.6
17.5°	7561.2	7634.4	7675.6	7822.1	8041.8	8357.6	8719.2	9039.6	9076.2	9364.5
20°	7950.2	8037.2	8050.9	8169.9	8385.1	8723.8	9154.0	9552.2	9598.0	9927.5
22.5°	8755.8	8879.4	8769.5	8829.0	9021.3	9360.0	9826.8	10330.3	10394.4	10769.7
25°	10174.7	10348.6	10064.8	9964.1	10046.5	10398.9	10984.8	11621.0	11694.2	11996.3
27.5°	12962.1	12737.8	12307.5	11886.5	11639.3	11840.7	12499.8	13287.0	13378.6	13671.5
30°	16024.1	15827.3	15246.0	14312.3	13726.4	13694.4	14303.1	15181.9	15287.2	15566.4
32.5°	19090.7	18903.0	18271.4	17122.5	16106.5	15603.0	16024.1	16999.0	17053.9	17232.4
35°	22106.9	21914.7	21283.0	20106.8	18857.2	17713.0	17630.6	18729.1	18747.4	18935.0
37.5°	25141.4	24981.3	24308.4	23155.0	21923.8	20344.8	19580.4	20367.6	20390.5	20573.6
40°	27306.4	27375.0	26912.7	26020.2	24962.9	23237.4	21768.2	22111.5	21974.2	22280.8
42.5°	29164.6	29301.9	28899.2	28450.6	27837.3	26317.7	24477.8	24418.3	24198.6	24363.4
45°	30771.2	30885.6	30524.0	30418.7	30405.0	29338.6	27439.1	27082.1	26775.4	26743.4
47.5°	31361.6	31581.3	31736.9	32089.3	32775.9	32327.3	30501.1	29947.3	29604.0	29352.3
50°	31585.9	31819.3	32350.2	33375.5	35000.3	35192.5	33549.4	32926.9	32505.8	32048.1
52.5°	31283.8	31700.3	32414.3	34139.8	36497.0	37490.2	36474.1	35929.4	35448.8	34702.8
55°	29503.3	29919.8	31379.9	34130.7	37243.0	39101.3	39238.6	38996.0	38455.9	37279.6
57.5°	25750.2	26368.1	28679.5	32968.1	37229.3	40488.1	41948.2	42122.1	41517.9	39833.6
60°	20550.7	21388.3	24207.7	30391.3	36080.5	41238.8	44323.6	45193.3	44552.5	42351.0
62.5°	14339.7	15310.1	17978.4	26354.4	33453.3	40698.7	46058.3	47664.9	47179.7	44602.8
65°	8746.6	9057.9	11209.1	20738.4	28986.1	38437.6	46593.8	49001.3	48841.1	45980.5
67.5°	5826.5	6087.4	6705.3	14220.7	22500.5	33920.1	45312.3	48767.9	48813.7	45756.2
70°	3510.6	3734.8	4137.6	8270.6	14582.3	26848.7	41344.0	45792.9	46058.3	42758.3
72.5°	1446.3	1597.4	1963.5	3748.6	7552.0	17040.2	32922.3	39316.4	39934.3	35952.3
75°	819.3	897.1	1153.4	1881.1	3277.1	7941.1	19942.0	27910.5	28821.4	24779.9
77.5°	544.7	581.3	746.1	1217.5	1844.5	2709.6	8522.4	14541.1	16280.4	13534.2
80°	366.2	398.2	512.6	814.7	1199.2	1162.6	2714.2	5387.1	6627.5	4650.2
82.5°	247.2	251.7	366.2	535.5	759.8	563.0	801.0	1675.2	2105.4	1345.6
85°	141.9	137.3	270.0	311.2	338.7	233.4	242.6	503.5	659.1	567.5
87.5°	18.3	27.5	105.3	82.4	45.8	50.3	50.3	87.0	128.2	137.3
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°
7941.1	0°	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1	7941.1
7950.2	2.5°	7950.2	7945.7	7931.9	7918.2	7886.2	7867.9	7877.0	7867.9	7863.3	7867.9
8009.7	5°	8009.7	7996.0	7959.4	7913.6	7849.6	7771.7	7721.4	7648.2	7579.5	7538.3
8169.9	7.5°	8169.9	8156.2	8105.9	7977.7	7771.7	7446.8	7149.3	6888.4	6691.6	6577.1
8426.3	10°	8426.3	8403.4	8325.6	8041.8	7501.7	6792.3	6201.8	5712.1	5391.7	5240.7
8728.3	12.5°	8728.3	8700.9	8563.6	7982.3	6989.1	5881.4	5066.7	4522.1	4224.6	4091.8
9076.2	15°	9085.3	9048.7	8778.7	7698.5	6243.0	4874.5	4128.5	3721.1	3528.9	3409.9
9520.2	17.5°	9529.3	9465.2	8938.9	7272.8	5432.9	4105.6	3551.8	3245.1	3075.7	2961.3
10101.4	20°	10106.0	10000.7	9067.0	6764.8	4686.8	3620.4	3162.7	2906.4	2778.2	2677.5
10925.3	22.5°	10911.6	10760.5	9222.7	6215.6	4160.5	3286.3	2874.4	2686.7	2581.4	2467.0
12074.1	25°	11909.3	11730.8	9414.9	5707.5	3798.9	2997.9	2663.8	2508.2	2384.6	2251.9
13580.0	27.5°	13305.3	12984.9	9643.7	5291.0	3487.7	2750.8	2471.6	2297.7	2155.8	2045.9
15287.2	30°	14861.5	14335.2	9845.1	5039.3	3203.9	2521.9	2219.8	2045.9	1913.2	1835.4
16820.5	32.5°	16335.3	15621.3	9977.9	4929.4	2947.6	2261.0	1945.2	1757.6	1656.9	1634.0
18321.7	35°	17726.7	16783.9	9964.1	4824.2	2718.7	2000.1	1675.2	1482.9	1405.1	1418.9
19937.4	37.5°	19328.7	18024.2	9868.0	4659.4	2531.1	1762.1	1441.8	1272.4	1203.8	1208.3
21900.9	40°	21191.5	19456.8	9808.5	4348.1	2325.1	1542.4	1249.5	1112.2	1061.9	1043.6
23969.7	42.5°	23177.9	20843.6	9817.7	3995.7	2068.8	1345.6	1116.8	1002.4	956.6	942.9
26272.0	45°	25173.5	22166.4	9831.4	3629.6	1798.8	1194.6	1020.7	924.6	897.1	878.8
28606.2	47.5°	27050.1	23292.3	9575.1	3235.9	1533.3	1080.2	942.9	878.8	855.9	833.0
30949.7	50°	28798.5	24043.0	8957.2	2778.2	1322.8	988.6	883.4	837.6	814.7	791.8
33073.4	52.5°	30157.8	24162.0	7936.5	2306.8	1176.3	920.0	846.7	805.6	778.1	755.2
34789.8	55°	30762.0	23415.9	6485.6	1867.4	1061.9	860.5	810.1	768.9	736.9	714.0
36140.0	57.5°	30606.4	21846.0	5057.6	1501.3	952.0	801.0	764.4	736.9	700.3	663.7
37233.9	60°	29842.0	19745.2	3812.6	1249.5	851.3	736.9	714.0	691.1	640.8	585.9
37655.0	62.5°	28519.3	17104.2	2718.7	1034.4	741.5	663.7	654.5	636.2	563.0	462.3
37032.5	65°	26496.2	13895.8	1830.8	860.5	636.2	581.3	585.9	553.8	457.7	343.3
34753.1	67.5°	23539.5	10160.9	1171.7	704.9	530.9	485.2	489.7	471.4	389.0	292.9
30432.5	70°	19772.6	6728.2	764.4	535.5	425.7	375.3	402.8	407.4	329.5	238.0
23356.4	72.5°	14495.4	3972.8	535.5	398.2	311.2	260.9	329.5	338.7	265.5	178.5
14051.4	75°	8261.5	1885.7	402.8	288.4	192.2	183.1	256.3	256.3	183.1	119.0
6082.8	77.5°	3469.4	787.2	283.8	187.7	109.8	105.3	173.9	160.2	91.5	54.9
1482.9	80°	1002.4	352.4	151.0	91.5	45.8	41.2	68.7	50.3	22.9	9.2
563.0	82.5°	393.6	155.6	59.5	36.6	18.3	18.3	9.2	0.0	0.0	0.0
320.4	85°	233.4	64.1	27.5	13.7	4.6	0.0	0.0	0.0	0.0	0.0
68.7	87.5°	59.5	13.7	9.2	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>
7941.1
7886.2
7547.5
6581.7
5226.9
4078.1
3414.4
2952.2
2659.2
2448.7
2238.2
2023.0
1821.6
1647.7
1418.9
1226.6
1039.0
938.3
878.8
833.0
791.8
750.6
709.4
659.1
576.7
453.1
334.1
279.2
228.8
169.3
109.8
54.9
9.2
0.0
0.0
0.0
0.0

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