

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: P941986

Luminaire Tested: **GALN-SB5D-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941986
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-SB5D-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 42652 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

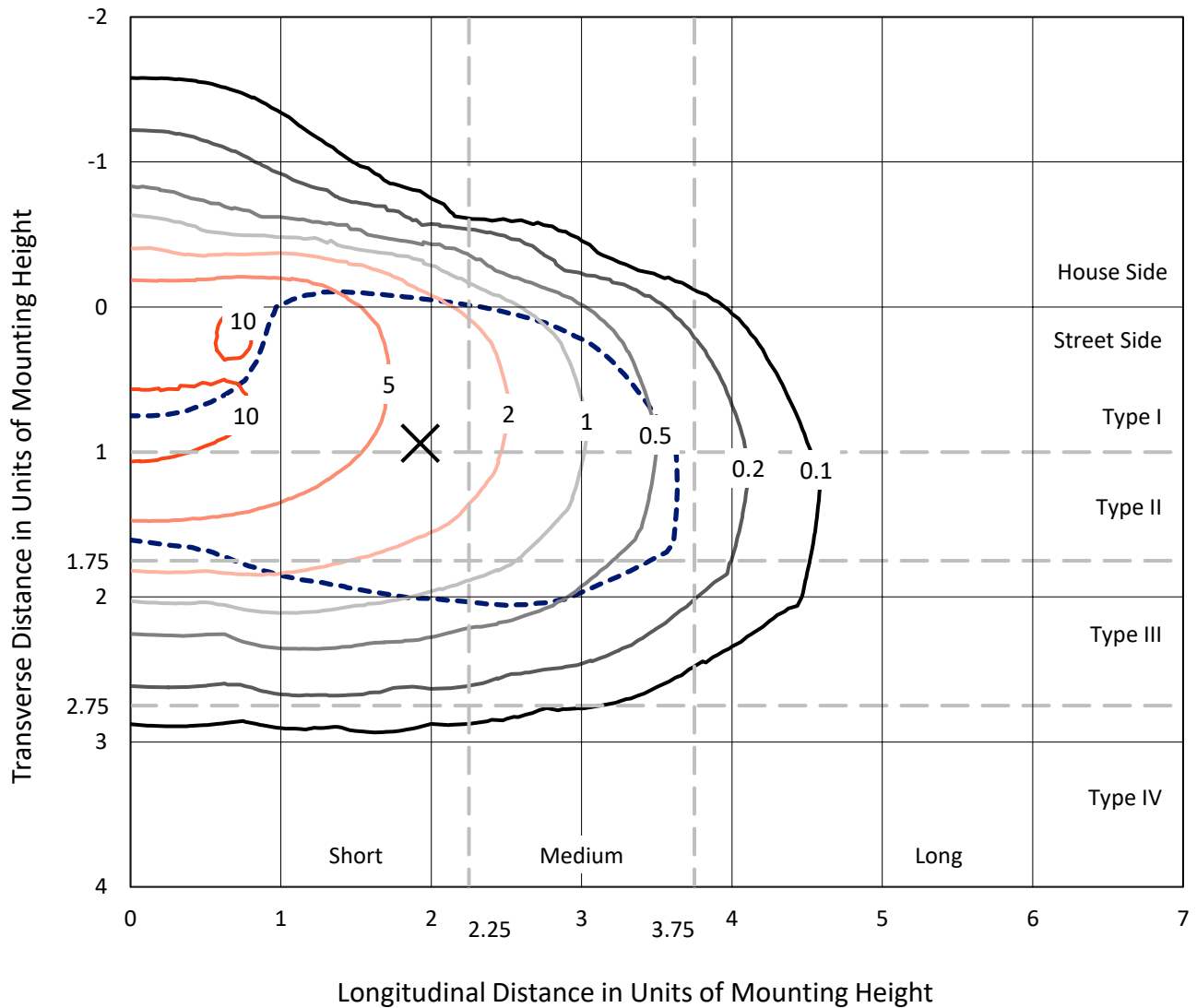
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

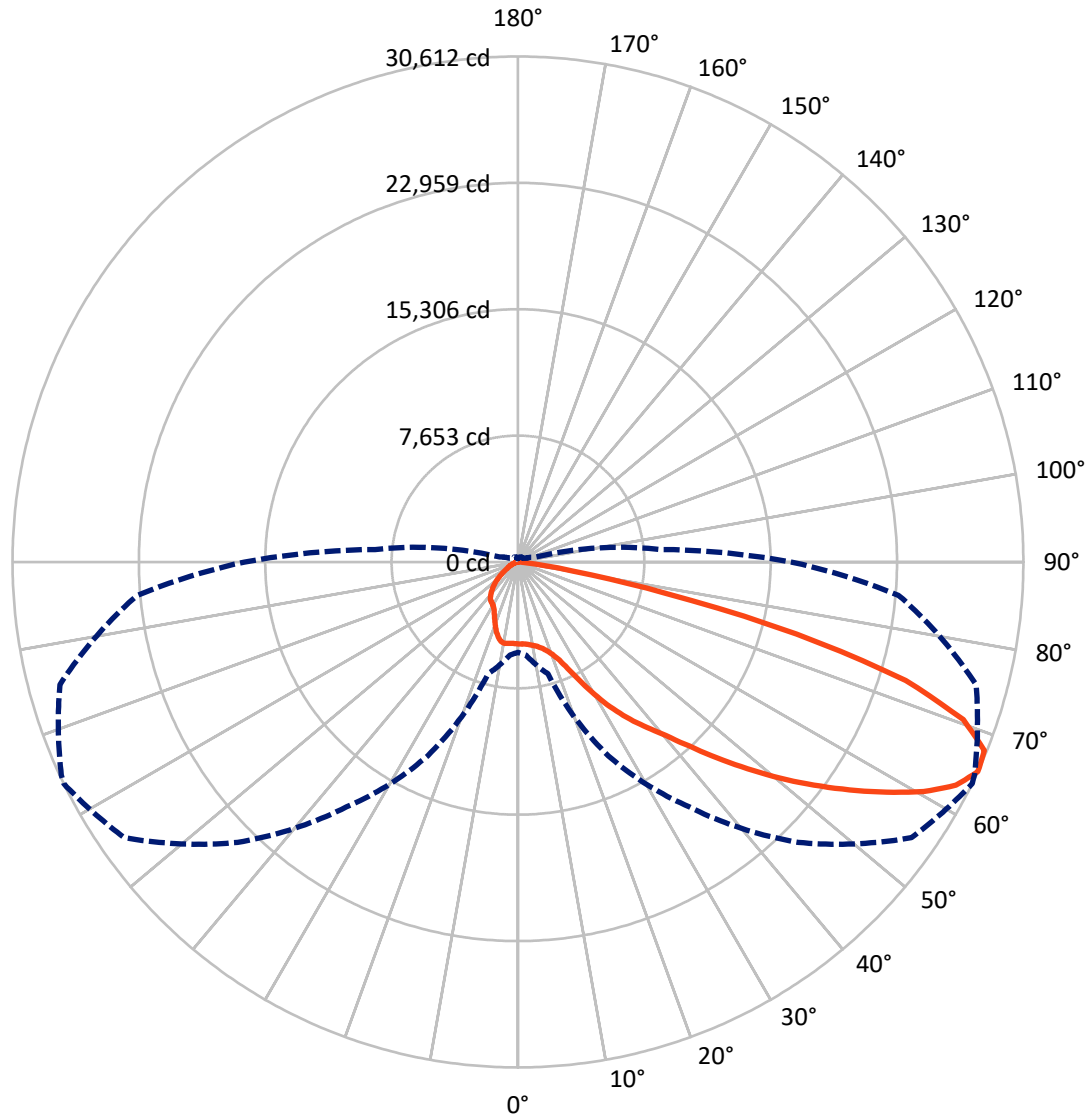
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	5703.9	0.0	5703.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	36948.1	0.0	36948.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	42652.0	0.0	42652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.7	1.1
10°-20°	1241.4	2.9
20°-30°	2352.3	5.5
30°-40°	4760.0	11.2
40°-50°	8108.7	19.0
50°-60°	11027.2	25.9
60°-70°	10355.1	24.3
70°-80°	4148.7	9.7
80°-90°	201.0	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°	42652.0	100.0
0°-180°	42652.0	100.0

Coefficient of Utilization



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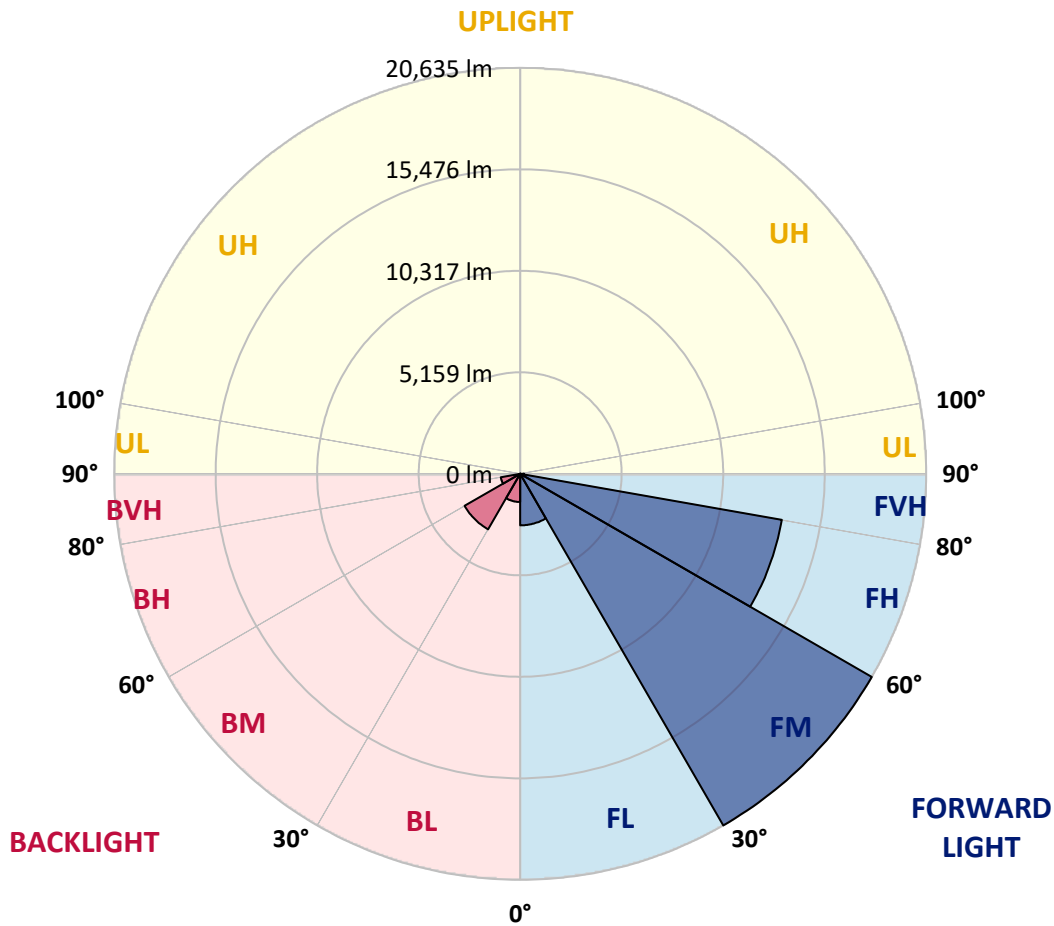
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.3	6.1			
FM (30°-60°)	20635.0	48.4			
FH (60°-80°)	13502.6	31.7			G5
FVH (80°-90°)	191.2	0.4			G2/225
BL (0°-30°)	1432.1	3.4	B3/2500		
BM (30°-60°)	3260.9	7.6	B3/5000		
BH (60°-80°)	1001.1	2.3	B3/2500		G3/2500
BVH (80°-90°)	9.8	0.0			G0/10
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°	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9
2.5°	4943.7	4978.0	4969.4	4960.9	4958.0	4963.7	4966.6	4963.7	4963.7	4963.7
5°	4849.4	4878.0	4878.0	4898.0	4926.6	4960.9	4986.6	4992.3	4998.0	5006.6
7.5°	4669.2	4692.1	4709.3	4775.0	4846.5	4938.0	5015.2	5055.2	5060.9	5092.4
10°	4546.3	4574.9	4603.5	4672.1	4775.0	4912.3	5043.8	5141.0	5155.3	5229.6
12.5°	4540.6	4569.1	4606.3	4680.7	4800.8	4946.6	5106.7	5246.8	5272.5	5381.2
15°	4600.6	4634.9	4669.2	4760.7	4889.4	5066.7	5238.2	5412.6	5438.4	5592.8
17.5°	4723.5	4769.3	4795.0	4886.5	5023.8	5221.1	5447.0	5647.1	5670.0	5850.1
20°	4966.6	5020.9	5029.5	5103.8	5238.2	5449.8	5718.6	5967.3	5995.9	6201.8
22.5°	5469.8	5547.0	5478.4	5515.6	5635.7	5847.3	6138.9	6453.4	6493.5	6727.9
25°	6356.2	6464.9	6287.6	6224.7	6276.1	6496.3	6862.3	7259.7	7305.5	7494.2
27.5°	8097.5	7957.4	7688.6	7425.6	7271.2	7397.0	7808.7	8300.5	8357.7	8540.7
30°	10010.4	9887.4	9524.3	8941.0	8575.0	8555.0	8935.3	9484.3	9550.0	9724.4
32.5°	11926.1	11808.9	11414.3	10696.6	10061.8	9747.3	10010.4	10619.4	10653.7	10765.2
35°	13810.4	13690.3	13295.7	12560.9	11780.3	11065.5	11014.0	11700.2	11711.7	11828.9
37.5°	15706.1	15606.0	15185.7	14465.2	13696.0	12709.6	12232.0	12723.8	12738.1	12852.5
40°	17058.5	17101.4	16812.6	16255.1	15594.6	14516.6	13598.8	13813.2	13727.5	13919.0
42.5°	18219.4	18305.2	18053.6	17773.4	17390.2	16440.9	15291.5	15254.3	15117.1	15220.0
45°	19223.0	19294.5	19068.6	19002.9	18994.3	18328.1	17141.5	16918.4	16726.9	16706.8
47.5°	19591.9	19729.1	19826.3	20046.5	20475.4	20195.2	19054.3	18708.3	18493.9	18336.6
50°	19732.0	19877.8	20209.5	20850.0	21865.0	21985.1	20958.6	20569.7	20306.7	20020.8
52.5°	19543.3	19803.5	20249.5	21327.5	22800.0	23420.5	22785.7	22445.4	22145.2	21679.1
55°	18431.0	18691.2	19603.3	21321.7	23266.1	24426.9	24512.7	24361.2	24023.8	23288.9
57.5°	16086.4	16472.4	17916.3	20595.5	23257.5	25293.3	26205.4	26314.1	25936.6	24884.4
60°	12838.2	13361.5	15122.8	18985.7	22539.8	25762.2	27689.4	28232.6	27832.3	26457.0
62.5°	8958.2	9564.3	11231.3	16463.8	20898.6	25424.8	28773.0	29776.7	29473.6	27863.8
65°	5464.1	5658.5	7002.4	12955.4	18107.9	24012.3	29107.6	30611.6	30511.5	28724.4
67.5°	3639.9	3802.9	4188.9	8883.8	14056.3	21190.2	28307.0	30465.7	30494.3	28584.3
70°	2193.1	2333.2	2584.8	5166.7	9109.7	16772.6	25828.0	28607.2	28773.0	26711.5
72.5°	903.5	997.9	1226.6	2341.8	4717.8	10645.1	20566.9	24561.3	24947.3	22459.7
75°	511.8	560.4	720.5	1175.2	2047.3	4960.9	12457.9	17436.0	18005.0	15480.2
77.5°	340.3	363.1	466.1	760.6	1152.3	1692.7	5324.0	9084.0	10170.5	8454.9
80°	228.7	248.8	320.2	509.0	749.1	726.3	1695.6	3365.4	4140.3	2905.0
82.5°	154.4	157.3	228.7	334.5	474.6	351.7	500.4	1046.5	1315.3	840.6
85°	88.6	85.8	168.7	194.4	211.6	145.8	151.5	314.5	411.7	354.6
87.5°	11.4	17.2	65.8	51.5	28.6	31.5	31.5	54.3	80.1	85.8
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°
4960.9	0°	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9	4960.9
4966.6	2.5°	4966.6	4963.7	4955.2	4946.6	4926.6	4915.1	4920.8	4915.1	4912.3	4915.1
5003.8	5°	5003.8	4995.2	4972.3	4943.7	4903.7	4855.1	4823.6	4777.9	4735.0	4709.3
5103.8	7.5°	5103.8	5095.3	5063.8	4983.7	4855.1	4652.1	4466.2	4303.2	4180.3	4108.8
5264.0	10°	5264.0	5249.7	5201.1	5023.8	4686.4	4243.2	3874.3	3568.4	3368.2	3273.9
5452.7	12.5°	5452.7	5435.5	5349.7	4986.6	4366.1	3674.2	3165.2	2825.0	2639.1	2556.2
5670.0	15°	5675.7	5652.8	5484.1	4809.3	3900.1	3045.1	2579.1	2324.6	2204.5	2130.2
5947.3	17.5°	5953.0	5913.0	5584.2	4543.4	3394.0	2564.8	2218.8	2027.2	1921.4	1850.0
6310.5	20°	6313.3	6247.6	5664.3	4226.0	2927.9	2261.7	1975.8	1815.7	1735.6	1672.7
6825.1	22.5°	6816.6	6722.2	5761.5	3882.9	2599.1	2053.0	1795.6	1678.4	1612.6	1541.2
7542.8	25°	7439.9	7328.4	5881.6	3565.5	2373.2	1872.8	1664.1	1566.9	1489.7	1406.8
8483.5	27.5°	8312.0	8111.8	6024.5	3305.3	2178.8	1718.4	1544.0	1435.4	1346.7	1278.1
9550.0	30°	9284.1	8955.3	6150.3	3148.1	2001.5	1575.5	1386.8	1278.1	1195.2	1146.6
10507.9	32.5°	10204.8	9758.8	6233.3	3079.5	1841.4	1412.5	1215.2	1098.0	1035.1	1020.8
11445.7	35°	11074.0	10485.0	6224.7	3013.7	1698.4	1249.5	1046.5	926.4	877.8	886.4
12455.1	37.5°	12074.8	11259.9	6164.6	2910.8	1581.2	1100.8	900.7	794.9	752.0	754.9
13681.7	40°	13238.5	12154.8	6127.5	2716.3	1452.5	963.6	780.6	694.8	663.4	651.9
14974.1	42.5°	14479.5	13021.2	6133.2	2496.2	1292.4	840.6	697.7	626.2	597.6	589.0
16412.3	45°	15726.1	13847.5	6141.8	2267.4	1123.7	746.3	637.6	577.6	560.4	549.0
17870.6	47.5°	16898.4	14550.9	5981.6	2021.5	957.9	674.8	589.0	549.0	534.7	520.4
19334.5	50°	17990.7	15019.9	5595.6	1735.6	826.3	617.6	551.8	523.3	509.0	494.7
20661.2	52.5°	18839.9	15094.2	4958.0	1441.1	734.8	574.7	529.0	503.2	486.1	471.8
21733.5	55°	19217.3	14628.1	4051.6	1166.6	663.4	537.5	506.1	480.4	460.3	446.0
22577.0	57.5°	19120.1	13647.4	3159.5	937.8	594.7	500.4	477.5	460.3	437.5	414.6
23260.3	60°	18642.6	12335.0	2381.8	780.6	531.8	460.3	446.0	431.8	400.3	366.0
23523.4	62.5°	17816.2	10685.2	1698.4	646.2	463.2	414.6	408.9	397.4	351.7	288.8
23134.5	65°	16552.4	8680.8	1143.7	537.5	397.4	363.1	366.0	346.0	285.9	214.4
21710.6	67.5°	14705.3	6347.6	732.0	440.3	331.7	303.1	305.9	294.5	243.0	183.0
19011.4	70°	12352.1	4203.2	477.5	334.5	265.9	234.5	251.6	254.5	205.9	148.7
14591.0	72.5°	9055.4	2481.9	334.5	248.8	194.4	163.0	205.9	211.6	165.8	111.5
8778.0	75°	5161.0	1178.0	251.6	180.1	120.1	114.4	160.1	160.1	114.4	74.3
3800.0	77.5°	2167.3	491.8	177.3	117.2	68.6	65.8	108.7	100.1	57.2	34.3
926.4	80°	626.2	220.2	94.4	57.2	28.6	25.7	42.9	31.5	14.3	5.7
351.7	82.5°	245.9	97.2	37.2	22.9	11.4	11.4	5.7	0.0	0.0	0.0
200.2	85°	145.8	40.0	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0
42.9	87.5°	37.2	8.6	5.7	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°
4960.9
4926.6
4715.0
4111.7
3265.3
2547.6
2133.0
1844.2
1661.2
1529.7
1398.2
1263.8
1138.0
1029.3
886.4
766.3
649.1
586.2
549.0
520.4
494.7
468.9
443.2
411.7
360.3
283.1
208.7
174.4
143.0
105.8
68.6
34.3
5.7
0.0
0.0
0.0
0.0

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