

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: P951878

Luminaire Tested: **GALN-SB5D-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26492 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

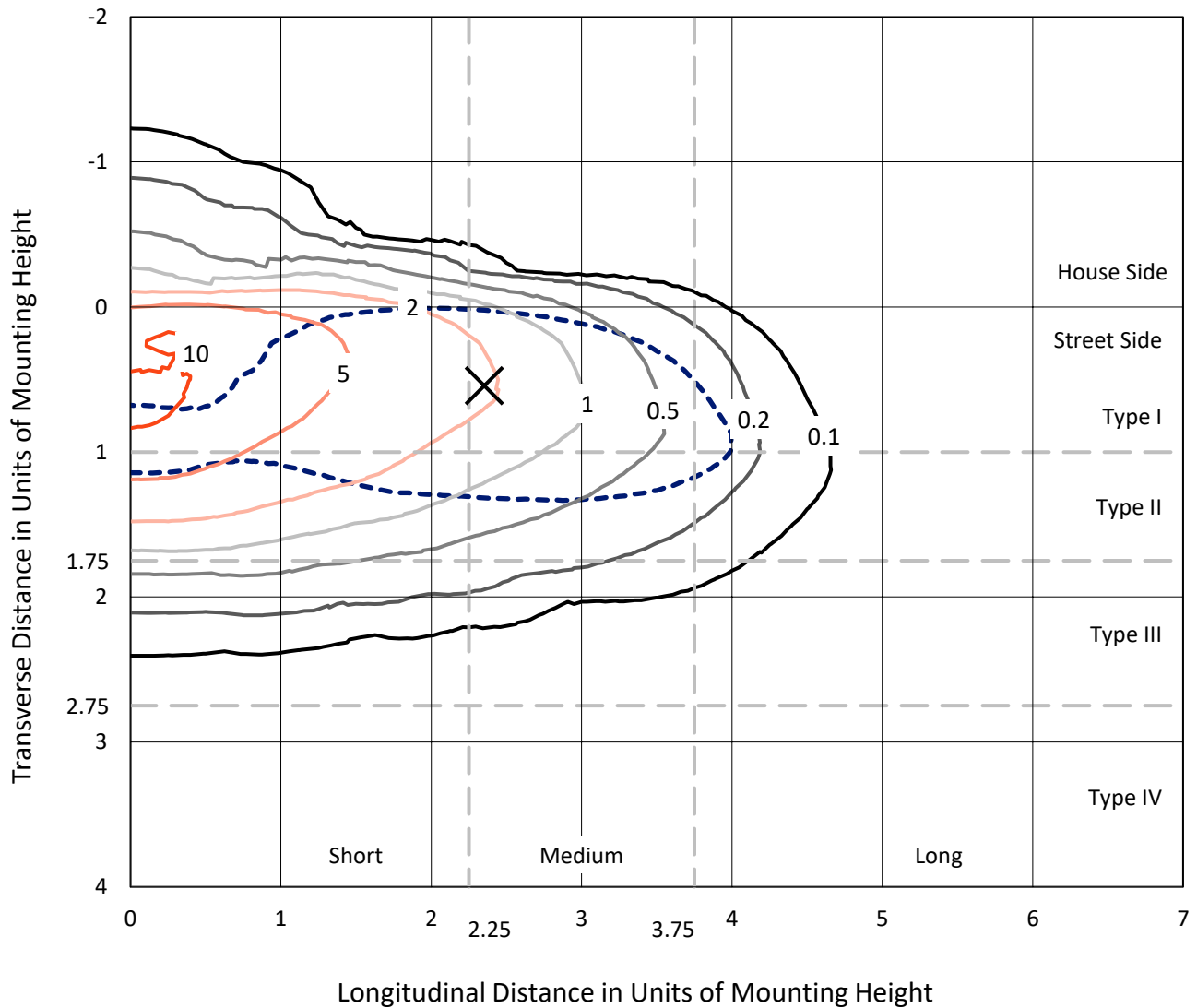
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

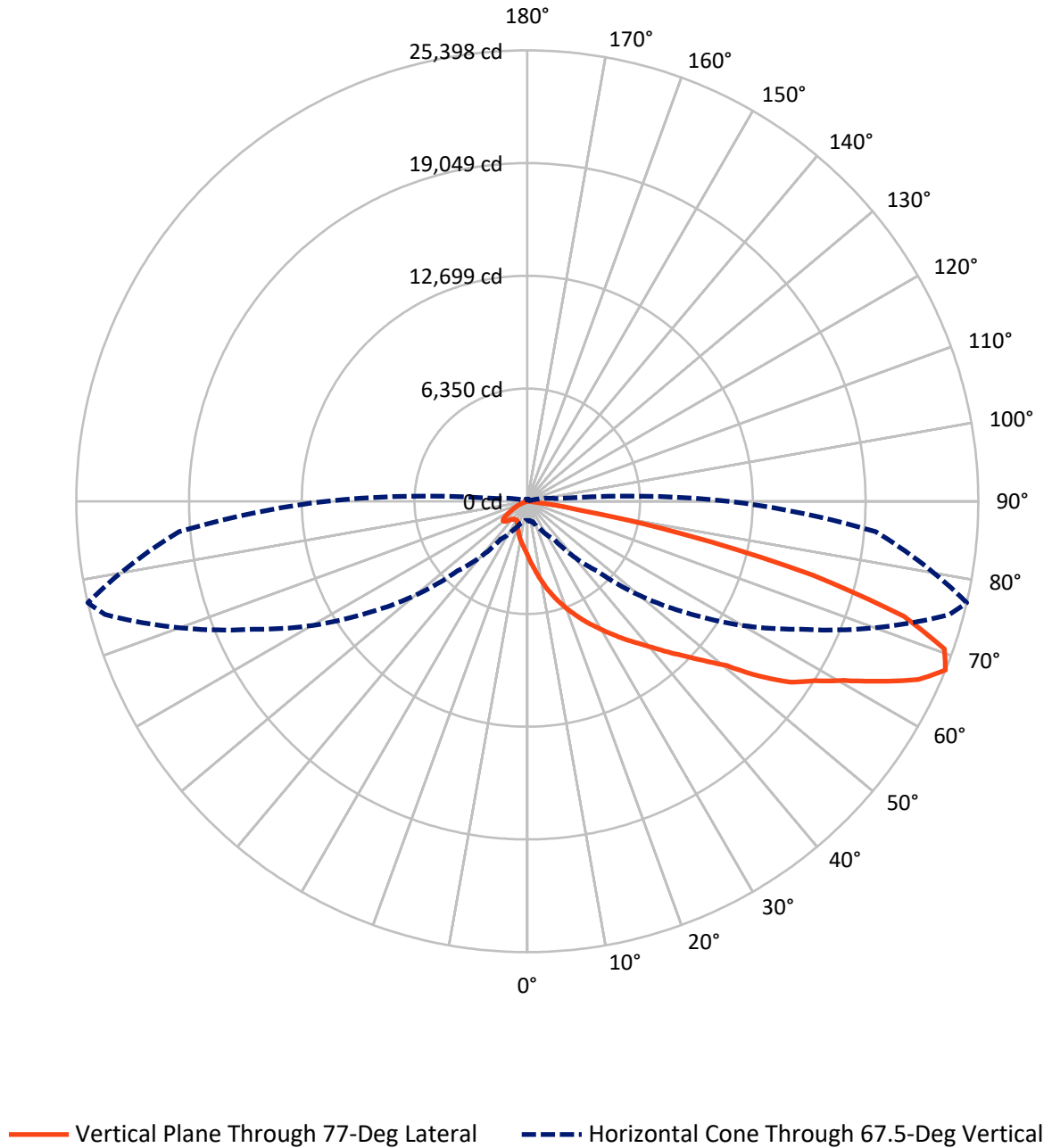
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1949.0	0.0	1949.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	24543.0	0.0	24543.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	26492.0	0.0	26492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	1.2
10°-20°	1091.9	4.1
20°-30°	2107.1	8.0
30°-40°	3658.0	13.8
40°-50°	5311.2	20.0
50°-60°	6099.3	23.0
60°-70°	5295.3	20.0
70°-80°	2494.1	9.4
80°-90°	123.3	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°	26492.0	100.0
0°-180°	26492.0	100.0

Coefficient of Utilization



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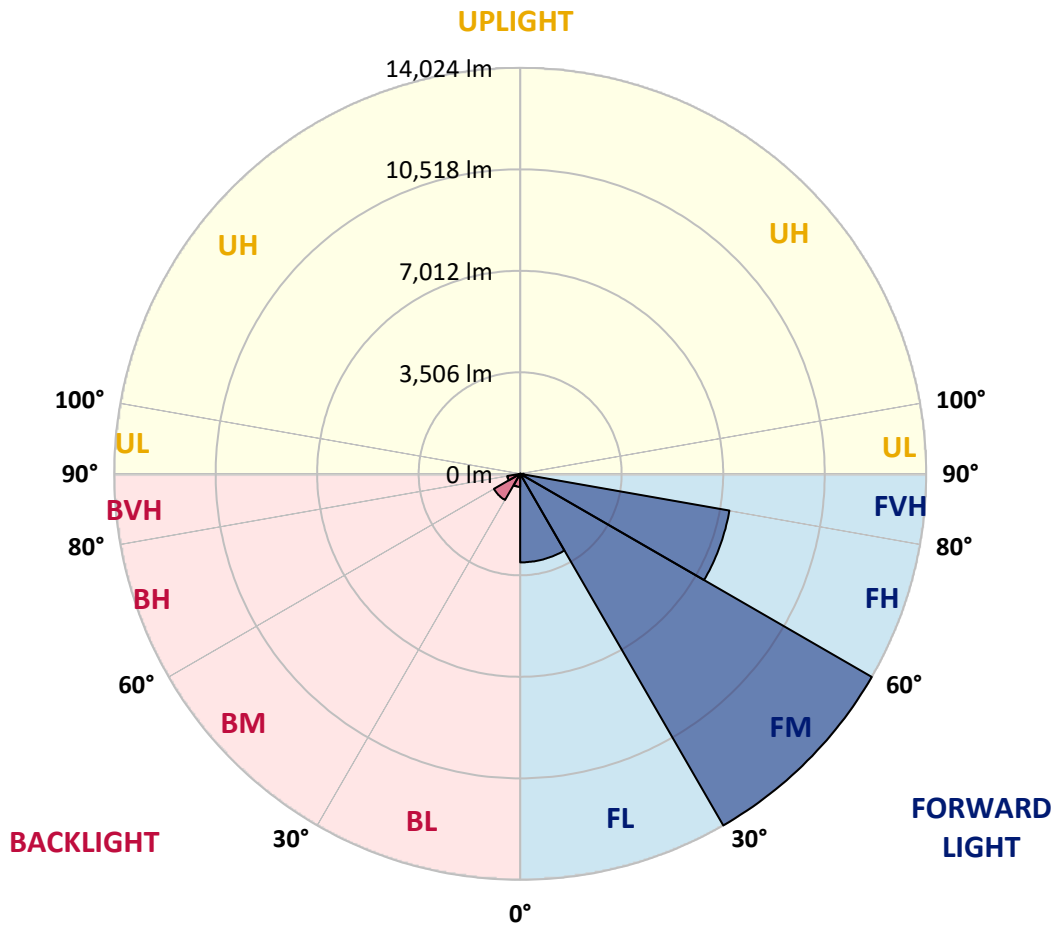
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3059.5	11.5			
FM (30°-60°)	14024.1	52.9			
FH (60°-80°)	7338.2	27.7			G3/7500
FVH (80°-90°)	121.1	0.5			G2/225
BL (0°-30°)	451.2	1.7	B1/500		
BM (30°-60°)	1044.3	3.9	B2/2500		
BH (60°-80°)	451.2	1.7	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9
2.5°	4229.5	4255.8	4218.0	4145.6	4037.0	3966.3	3793.6	3630.7	3449.7	3392.2
5°	5155.7	5178.7	5135.9	5057.0	4912.2	4774.0	4547.0	4206.5	3852.8	3739.3
7.5°	5841.7	5854.8	5838.4	5766.0	5627.8	5471.5	5218.2	4815.2	4290.4	4165.3
10°	6335.2	6378.0	6373.0	6345.1	6253.0	6126.3	5856.5	5397.5	4780.6	4619.4
12.5°	6662.6	6710.3	6738.3	6800.8	6795.8	6715.2	6478.3	5993.0	5269.2	5080.0
15°	6758.0	6809.0	6915.9	7060.7	7189.0	7230.1	7064.0	6577.0	5807.1	5565.3
17.5°	6703.7	6782.7	6911.0	7139.7	7421.0	7606.9	7588.8	7141.3	6295.7	6019.4
20°	6823.8	6899.5	6999.8	7192.3	7519.7	7856.9	7991.8	7680.9	6781.0	6491.5
22.5°	7488.4	7475.3	7485.1	7516.4	7712.1	8046.1	8324.1	8171.1	7261.4	6965.3
25°	8541.3	8482.0	8381.7	8212.2	8162.9	8324.1	8613.6	8605.4	7768.1	7450.6
27.5°	9748.8	9738.9	9503.6	9095.7	8865.3	8802.8	8941.0	9028.2	8269.8	7930.9
30°	10905.2	10931.6	10614.1	10160.0	9737.2	9492.1	9367.1	9429.6	8779.8	8449.1
32.5°	11912.0	11940.0	11594.5	11063.2	10540.0	10243.9	9980.7	9826.1	9335.8	8975.6
35°	12762.5	12790.5	12394.0	11806.8	11249.1	10980.9	10683.2	10260.4	9895.2	9559.6
37.5°	13522.6	13514.3	12983.0	12390.8	11842.9	11630.7	11474.4	10795.0	10470.9	10146.9
40°	13971.7	14006.2	13552.2	12899.1	12367.7	12213.1	12203.2	11458.0	11135.6	10821.3
42.5°	14103.3	14164.2	13835.1	13298.8	12816.8	12649.0	12907.3	12175.3	11908.7	11602.8
45°	13866.4	13925.6	13775.9	13404.1	13122.8	13014.2	13512.7	12918.8	12734.6	12431.9
47.5°	13175.5	13249.5	13285.7	13206.7	13203.4	13313.6	14055.6	13701.9	13715.0	13405.8
50°	11838.0	11963.0	12295.3	12575.0	13007.7	13550.5	14583.7	14550.7	14820.5	14554.0
52.5°	9406.6	9584.2	10729.2	11494.2	12466.4	13506.1	15164.4	15912.9	16760.1	16370.2
55°	7559.2	7559.2	8490.3	9921.5	11410.3	13213.3	15417.7	16797.9	18081.1	17989.0
57.5°	6162.5	6236.5	6830.4	8095.4	9882.0	12515.8	15574.0	17354.0	19145.5	19078.0
60°	3803.4	3963.0	5084.9	6333.6	8143.2	11273.7	15475.3	17916.6	20436.9	20491.1
62.5°	2141.9	2201.1	2701.2	4556.9	6331.9	9604.0	14720.2	18230.8	22088.5	22318.8
65°	1478.9	1508.5	1701.0	2836.1	4389.1	7646.3	13244.6	18035.0	23743.5	24209.0
67.5°	1074.2	1089.0	1209.1	1732.3	2604.2	5543.9	10931.6	17048.0	24620.3	25398.4
70°	825.8	835.7	922.9	1138.4	1538.2	3421.8	7939.2	15085.4	23985.3	24914.8
72.5°	671.2	681.1	748.5	842.3	1020.0	2023.5	4811.9	12250.9	21182.1	22185.6
75°	565.9	579.1	639.9	700.8	799.5	1299.6	2257.1	8531.4	15929.3	16587.4
77.5°	314.2	289.5	519.8	580.7	674.5	822.5	1056.1	5020.8	8921.3	9103.9
80°	195.8	202.3	412.9	467.2	518.2	414.6	483.7	1933.0	3092.8	2938.1
82.5°	11.5	26.3	317.5	337.2	355.3	177.7	182.6	656.4	745.2	684.4
85°	0.0	0.0	144.8	116.8	123.4	51.0	52.6	153.0	100.3	108.6
87.5°	0.0	0.0	0.0	3.3	0.0	4.9	9.9	13.2	4.9	6.6
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°
3054.9	0°	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9	3054.9
3211.2	2.5°	3096.0	2980.9	2747.3	2518.6	2332.7	2160.0	2036.6	1919.8	1860.6	1857.3
3418.5	5°	3189.8	2948.0	2480.8	2067.9	1735.6	1469.1	1296.3	1172.9	1110.4	1089.0
3673.5	7.5°	3321.4	2957.9	2247.2	1673.0	1281.5	1052.9	954.1	914.7	901.5	886.7
3961.4	10°	3487.6	2980.9	2038.3	1347.3	1010.1	894.9	855.4	839.0	829.1	819.3
4285.4	12.5°	3673.5	3002.3	1831.0	1118.7	888.3	829.1	801.2	781.4	768.3	756.7
4617.7	15°	3854.4	3015.4	1615.5	959.1	825.8	778.1	748.5	727.1	709.0	695.9
4943.5	17.5°	4033.7	3033.5	1413.1	863.7	774.8	727.1	697.5	671.2	656.4	641.6
5285.6	20°	4232.8	3030.2	1222.3	796.2	723.8	676.1	644.9	620.2	605.4	588.9
5647.6	22.5°	4417.0	3013.8	1054.5	738.6	671.2	625.1	590.6	565.9	551.1	537.9
6017.7	25°	4629.3	3000.6	914.7	686.0	621.8	575.8	537.9	514.9	498.5	486.9
6389.5	27.5°	4833.3	2980.9	812.7	638.3	574.1	529.7	493.5	467.2	452.4	444.2
6772.8	30°	5034.0	2976.0	774.8	592.2	531.4	486.9	450.8	426.1	414.6	411.3
7193.9	32.5°	5275.8	2989.1	791.3	575.8	491.9	447.5	412.9	394.8	383.3	383.3
7662.8	35°	5534.1	2985.8	816.0	590.6	465.6	408.0	381.7	370.1	358.6	358.6
8182.6	37.5°	5858.1	2990.8	835.7	615.3	455.7	375.1	360.3	345.5	338.9	338.9
8751.8	40°	6341.8	3153.6	825.8	636.6	452.4	352.0	322.4	317.5	312.6	312.6
9395.1	42.5°	6934.0	3507.3	839.0	638.3	450.8	335.6	296.1	306.0	294.5	292.8
10120.5	45°	7582.2	3893.9	922.9	603.7	449.1	327.4	283.0	294.5	276.4	276.4
10961.2	47.5°	8225.4	4277.2	1008.4	554.4	444.2	325.7	271.4	264.9	259.9	261.6
12056.8	50°	9112.1	4589.8	1041.3	486.9	432.7	322.4	250.1	251.7	248.4	251.7
13601.5	52.5°	10077.8	4655.6	1001.9	411.3	399.8	312.6	235.2	241.8	240.2	243.5
14688.9	55°	10679.9	4584.8	827.5	342.2	348.8	273.1	220.4	233.6	233.6	233.6
15751.7	57.5°	11301.7	4283.8	587.3	278.0	289.5	223.7	207.3	225.4	223.7	222.1
17031.5	60°	11749.2	3796.8	386.6	228.7	230.3	184.2	192.5	212.2	210.6	202.3
18350.9	62.5°	12083.1	3258.9	248.4	194.1	176.0	166.2	176.0	192.5	185.9	167.8
19469.5	65°	12045.3	2513.7	190.8	166.2	144.8	144.8	153.0	167.8	148.1	118.4
19683.4	67.5°	11342.8	1701.0	157.9	139.8	121.7	120.1	126.7	139.8	126.7	100.3
18587.8	70°	10087.6	1112.1	126.7	108.6	97.1	88.8	102.0	120.1	106.9	80.6
15824.0	72.5°	8187.6	677.8	95.4	79.0	70.7	57.6	80.6	98.7	85.5	59.2
11004.0	75°	5297.2	345.5	65.8	51.0	37.8	34.5	59.2	74.0	59.2	36.2
4882.6	77.5°	2026.7	144.8	36.2	23.0	19.7	16.5	32.9	44.4	24.7	8.2
945.9	80°	389.9	60.9	18.1	11.5	9.9	6.6	4.9	3.3	0.0	0.0
167.8	82.5°	67.4	19.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
32.9	85°	23.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.5	87.5°	8.2	0.0	0.0	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°
3054.9
1854.0
1085.8
883.4
816.0
753.4
694.2
639.9
587.3
536.3
485.3
444.2
409.6
383.3
358.6
338.9
312.6
291.2
276.4
261.6
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