

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: P951248

Luminaire Tested: **GALN-SB5B-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951248
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-SB5B-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 450mA 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: 16754 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

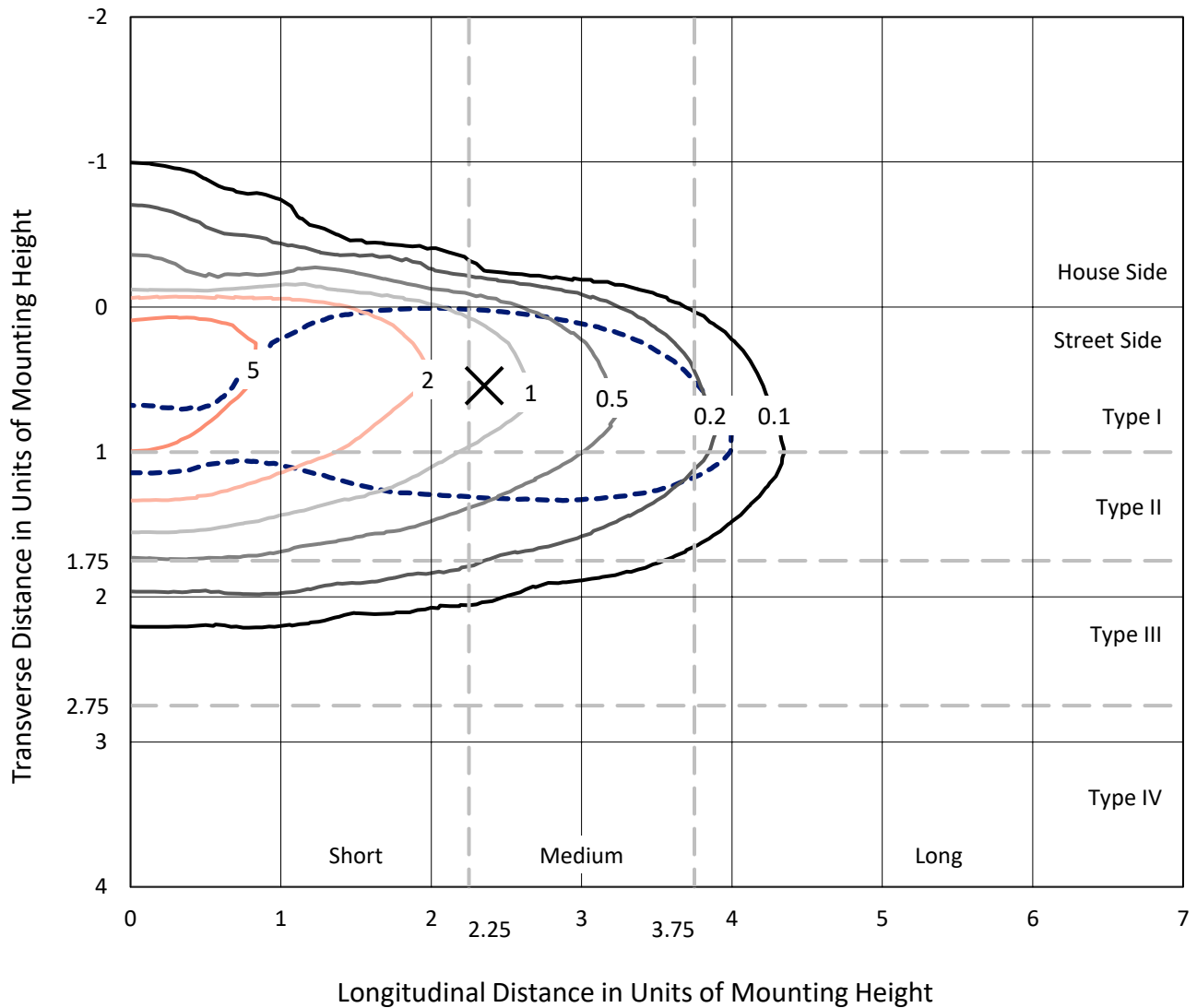
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB5B-950-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

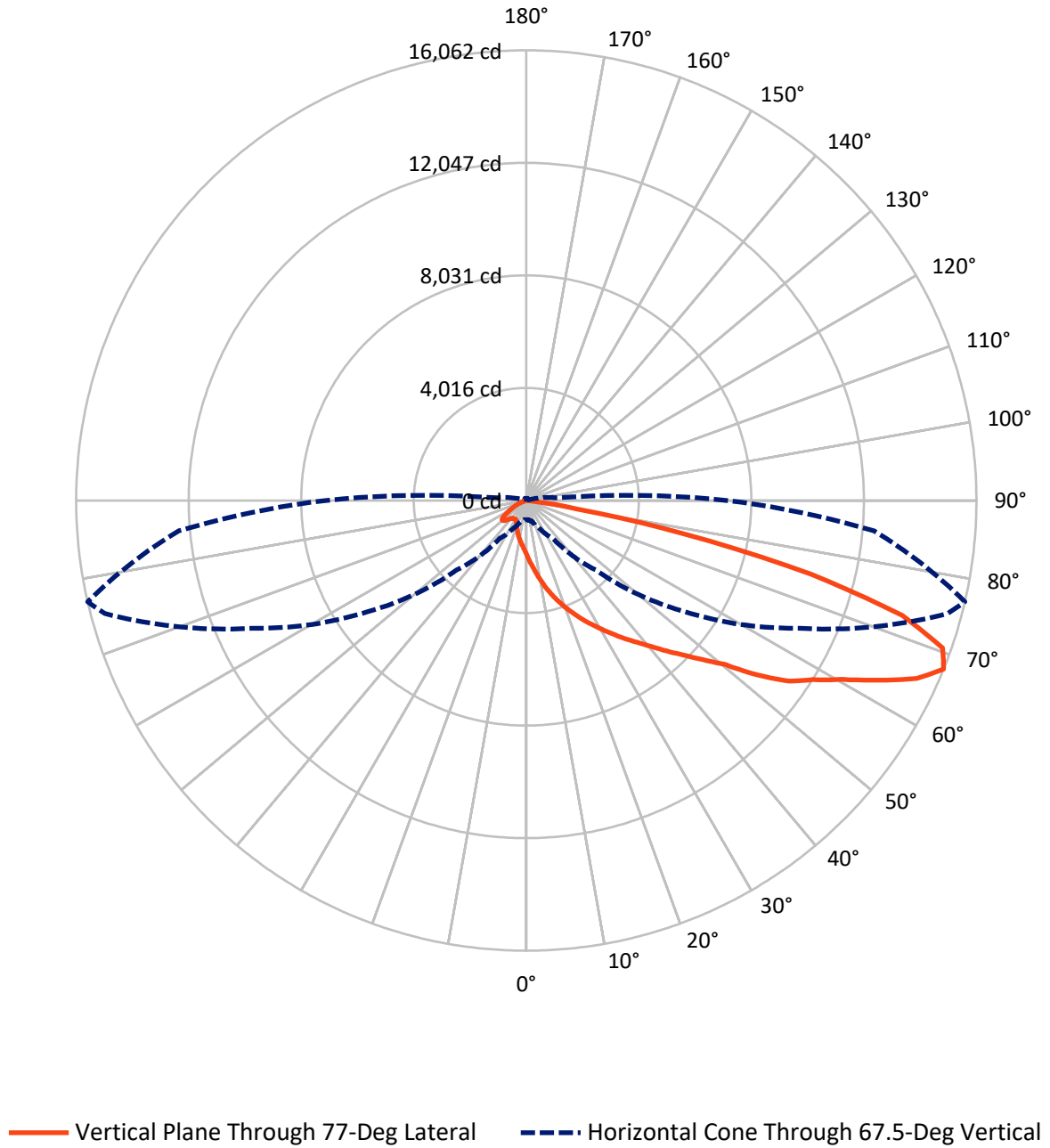
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P951248
CATALOG NUMBER: GALN-SB5B-950-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P951248

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1232.6	0.0	1232.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	15521.4	0.0	15521.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	16754.0	0.0	16754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	1.2
10°-20°	690.5	4.1
20°-30°	1332.5	8.0
30°-40°	2313.4	13.8
40°-50°	3358.9	20.0
50°-60°	3857.3	23.0
60°-70°	3348.8	20.0
70°-80°	1577.3	9.4
80°-90°	78.0	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°	16754.0	100.0
0°-180°	16754.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951248

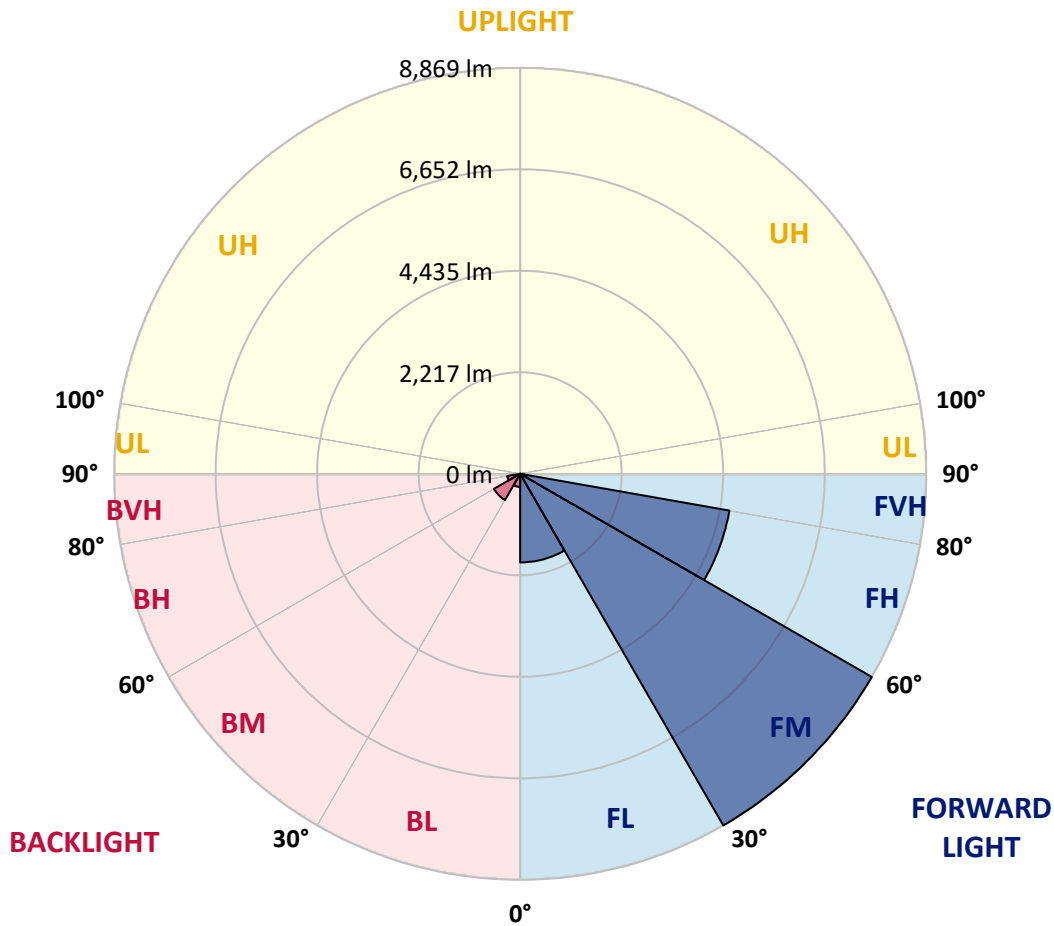
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1934.9	11.5			
FM (30°-60°)	8869.1	52.9			
FH (60°-80°)	4640.8	27.7			G2/5000
FVH (80°-90°)	76.6	0.5			G1/100
BL (0°-30°)	285.4	1.7	B1/500		
BM (30°-60°)	660.4	3.9	B1/1000		
BH (60°-80°)	285.4	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P951248

CATALOG NUMBER: GALN-SB5B-950-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2.5°	2674.8	2691.5	2667.5	2621.8	2553.1	2508.4	2399.1	2296.1	2181.7	2145.3
5°	3260.5	3275.1	3248.1	3198.1	3106.6	3019.2	2875.6	2660.2	2436.6	2364.8
7.5°	3694.4	3702.7	3692.3	3646.5	3559.1	3460.3	3300.1	3045.2	2713.3	2634.2
10°	4006.5	4033.5	4030.4	4012.7	3954.5	3874.4	3703.7	3413.5	3023.3	2921.4
12.5°	4213.5	4243.7	4261.4	4300.9	4297.8	4246.8	4097.0	3790.1	3332.3	3212.7
15°	4273.9	4306.1	4373.8	4465.3	4546.5	4572.5	4467.4	4159.4	3672.5	3519.6
17.5°	4239.5	4289.5	4370.6	4515.2	4693.1	4810.7	4799.3	4516.3	3981.5	3806.7
20°	4315.5	4363.3	4426.8	4548.5	4755.6	4968.8	5054.2	4857.5	4288.4	4105.3
22.5°	4735.8	4727.5	4733.7	4753.5	4877.3	5088.5	5264.3	5167.6	4592.2	4405.0
25°	5401.6	5364.2	5300.7	5193.6	5162.4	5264.3	5447.4	5442.2	4912.7	4711.9
27.5°	6165.3	6159.0	6010.3	5752.3	5606.6	5567.1	5654.5	5709.6	5230.0	5015.7
30°	6896.7	6913.3	6712.5	6425.4	6158.0	6003.0	5923.9	5963.4	5552.5	5343.4
32.5°	7533.4	7551.1	7332.6	6996.5	6665.7	6478.4	6312.0	6214.2	5904.1	5676.3
35°	8071.3	8088.9	7838.2	7466.8	7114.1	6944.5	6756.2	6488.8	6257.9	6045.6
37.5°	8551.9	8546.7	8210.7	7836.1	7489.7	7355.5	7256.6	6827.0	6622.0	6417.1
40°	8835.9	8857.8	8570.6	8157.6	7821.6	7723.8	7717.5	7246.2	7042.3	6843.6
42.5°	8919.2	8957.7	8749.6	8410.4	8105.6	7999.5	8162.8	7699.8	7531.3	7337.8
45°	8769.3	8806.8	8712.1	8477.0	8299.1	8230.4	8545.7	8170.1	8053.6	7862.1
47.5°	8332.4	8379.2	8402.1	8352.2	8350.1	8419.8	8889.0	8665.3	8673.6	8478.0
50°	7486.6	7565.6	7775.8	7952.7	8226.3	8569.6	9223.0	9202.1	9372.8	9204.2
52.5°	5948.9	6061.2	6785.3	7269.1	7884.0	8541.5	9590.2	10063.6	10599.4	10352.8
55°	4780.5	4780.5	5369.4	6274.5	7216.1	8356.3	9750.4	10623.3	11434.8	11376.5
57.5°	3897.3	3944.1	4319.7	5119.7	6249.6	7915.2	9849.3	10975.0	12107.9	12065.3
60°	2405.4	2506.3	3215.8	4005.5	5149.9	7129.7	9786.8	11330.8	12924.6	12959.0
62.5°	1354.6	1392.0	1708.3	2881.8	4004.4	6073.7	9309.3	11529.5	13969.2	14114.8
65°	935.3	954.0	1075.8	1793.6	2775.7	4835.7	8376.1	11405.7	15015.8	15310.2
67.5°	679.4	688.7	764.7	1095.5	1646.9	3506.1	6913.3	10781.4	15570.3	16062.4
70°	522.3	528.5	583.7	719.9	972.8	2164.0	5020.9	9540.3	15168.7	15756.5
72.5°	424.5	430.7	473.4	532.7	645.0	1279.7	3043.1	7747.7	13395.9	14030.5
75°	357.9	366.2	404.7	443.2	505.6	821.9	1427.4	5395.4	10074.0	10490.1
77.5°	198.7	183.1	328.8	367.3	426.6	520.2	667.9	3175.2	5642.0	5757.5
80°	123.8	128.0	261.1	295.5	327.7	262.2	305.9	1222.4	1955.9	1858.1
82.5°	7.3	16.6	200.8	213.3	224.7	112.4	115.5	415.1	471.3	432.8
85°	0.0	0.0	91.6	73.9	78.0	32.3	33.3	96.8	63.5	68.7
87.5°	0.0	0.0	0.0	2.1	0.0	3.1	6.2	8.3	3.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951248
 CATALOG NUMBER: GALN-SB5B-950-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1932.0	0°	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0	1932.0
2030.8	2.5°	1958.0	1885.2	1737.4	1592.8	1475.3	1366.0	1288.0	1214.1	1176.7	1174.6
2161.9	5°	2017.3	1864.4	1568.9	1307.8	1097.6	929.1	819.8	741.8	702.3	688.7
2323.2	7.5°	2100.5	1870.6	1421.2	1058.1	810.5	665.8	603.4	578.5	570.1	560.8
2505.2	10°	2205.6	1885.2	1289.0	852.1	638.8	566.0	541.0	530.6	524.4	518.1
2710.2	12.5°	2323.2	1898.7	1157.9	707.5	561.8	524.4	506.7	494.2	485.9	478.6
2920.3	15°	2437.6	1907.0	1021.7	606.5	522.3	492.1	473.4	459.8	448.4	440.1
3126.3	17.5°	2551.0	1918.5	893.7	546.2	490.0	459.8	441.1	424.5	415.1	405.7
3342.7	20°	2676.9	1916.4	773.0	503.5	457.8	427.6	407.8	392.2	382.9	372.5
3571.6	22.5°	2793.4	1906.0	666.9	467.1	424.5	395.3	373.5	357.9	348.5	340.2
3805.7	25°	2927.6	1897.6	578.5	433.8	393.3	364.1	340.2	325.6	315.2	308.0
4040.8	27.5°	3056.6	1885.2	513.9	403.7	363.1	335.0	312.1	295.5	286.1	280.9
4283.2	30°	3183.6	1882.0	490.0	374.5	336.0	308.0	285.1	269.5	262.2	260.1
4549.6	32.5°	3336.5	1890.4	500.4	364.1	311.1	283.0	261.1	249.7	242.4	242.4
4846.1	35°	3499.8	1888.3	516.0	373.5	294.4	258.0	241.4	234.1	226.8	226.8
5174.8	37.5°	3704.8	1891.4	528.5	389.1	288.2	237.2	227.8	218.5	214.3	214.3
5534.8	40°	4010.7	1994.4	522.3	402.6	286.1	222.6	203.9	200.8	197.7	197.7
5941.6	42.5°	4385.2	2218.1	530.6	403.7	285.1	212.2	187.3	193.5	186.2	185.2
6400.4	45°	4795.1	2462.6	583.7	381.8	284.0	207.0	178.9	186.2	174.8	174.8
6932.0	47.5°	5201.9	2705.0	637.8	350.6	280.9	206.0	171.7	167.5	164.4	165.4
7624.9	50°	5762.7	2902.7	658.6	308.0	273.6	203.9	158.1	159.2	157.1	159.2
8601.8	52.5°	6373.4	2944.3	633.6	260.1	252.8	197.7	148.8	152.9	151.9	154.0
9289.5	55°	6754.1	2899.5	523.3	216.4	220.6	172.7	139.4	147.7	147.7	147.7
9961.6	57.5°	7147.4	2709.1	371.4	175.8	183.1	141.5	131.1	142.5	141.5	140.5
10771.0	60°	7430.4	2401.2	244.5	144.6	145.7	116.5	121.7	134.2	133.2	128.0
11605.4	62.5°	7641.6	2061.0	157.1	122.8	111.3	105.1	111.3	121.7	117.6	106.1
12312.9	65°	7617.6	1589.7	120.7	105.1	91.6	91.6	96.8	106.1	93.6	74.9
12448.1	67.5°	7173.4	1075.8	99.9	88.4	77.0	75.9	80.1	88.4	80.1	63.5
11755.2	70°	6379.6	703.3	80.1	68.7	61.4	56.2	64.5	75.9	67.6	51.0
10007.4	72.5°	5178.0	428.6	60.3	49.9	44.7	36.4	51.0	62.4	54.1	37.5
6959.1	75°	3350.0	218.5	41.6	32.3	23.9	21.8	37.5	46.8	37.5	22.9
3087.8	77.5°	1281.7	91.6	22.9	14.6	12.5	10.4	20.8	28.1	15.6	5.2
598.2	80°	246.6	38.5	11.4	7.3	6.2	4.2	3.1	2.1	0.0	0.0
106.1	82.5°	42.7	12.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
20.8	85°	14.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.3	87.5°	5.2	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°
1932.0
1172.5
686.6
558.7
516.0
476.5
439.0
404.7
371.4
339.2
306.9
280.9
259.1
242.4
226.8
214.3
197.7
184.1
174.8
165.4
159.2
154.0
147.7
140.5
128.0
104.0
72.8
61.4
48.9
35.4
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