

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: P943796

Luminaire Tested: **GALN-SB8B-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943796
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-SB8B-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA 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: 25877 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

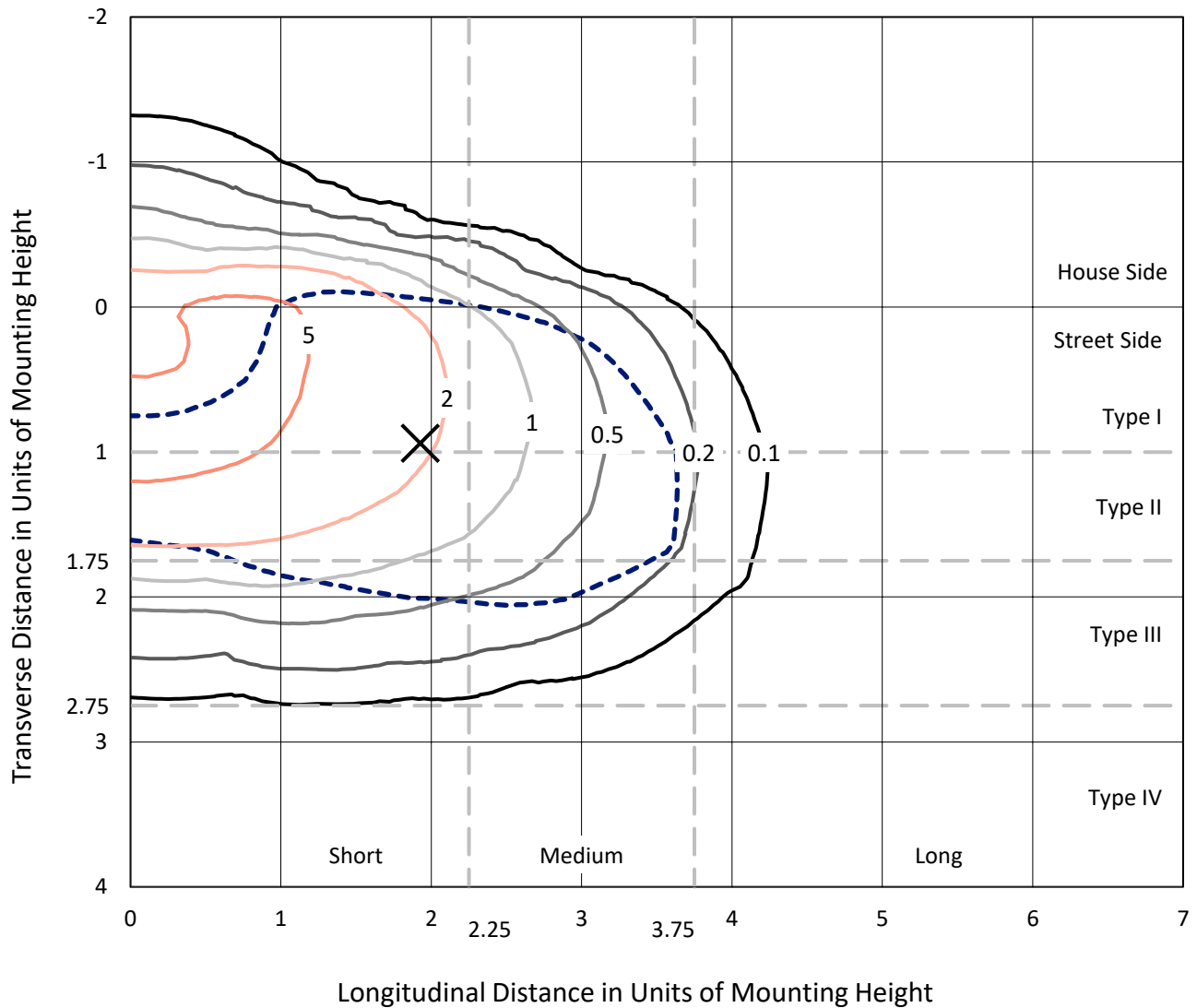
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

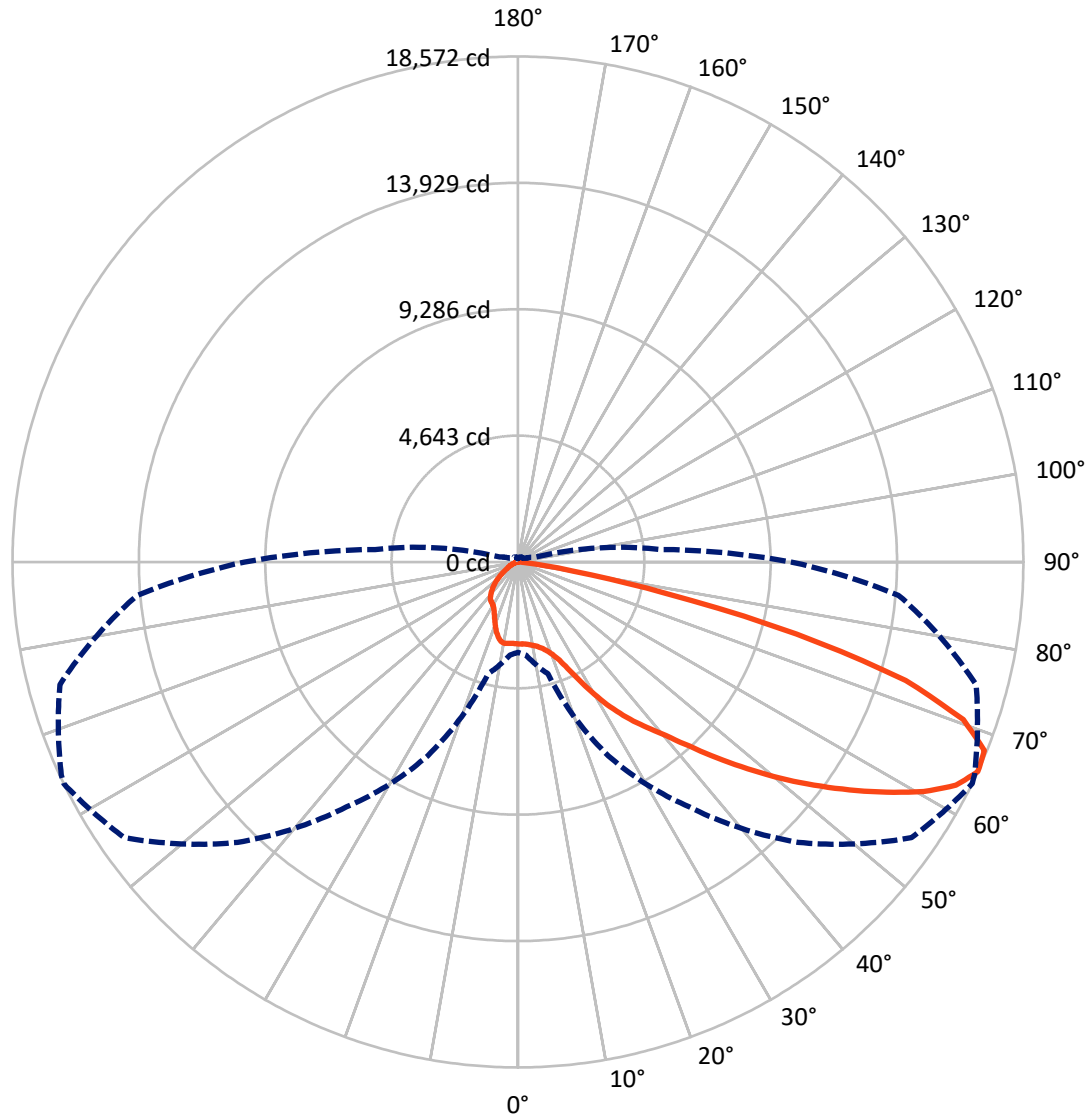
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3460.5	0.0	3460.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22416.5	0.0	22416.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	25877.0	0.0	25877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.1
10°-20°	753.2	2.9
20°-30°	1427.2	5.5
30°-40°	2887.9	11.2
40°-50°	4919.5	19.0
50°-60°	6690.2	25.9
60°-70°	6282.4	24.3
70°-80°	2517.0	9.7
80°-90°	121.9	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°	25877.0	100.0
0°-180°	25877.0	100.0

Coefficient of Utilization



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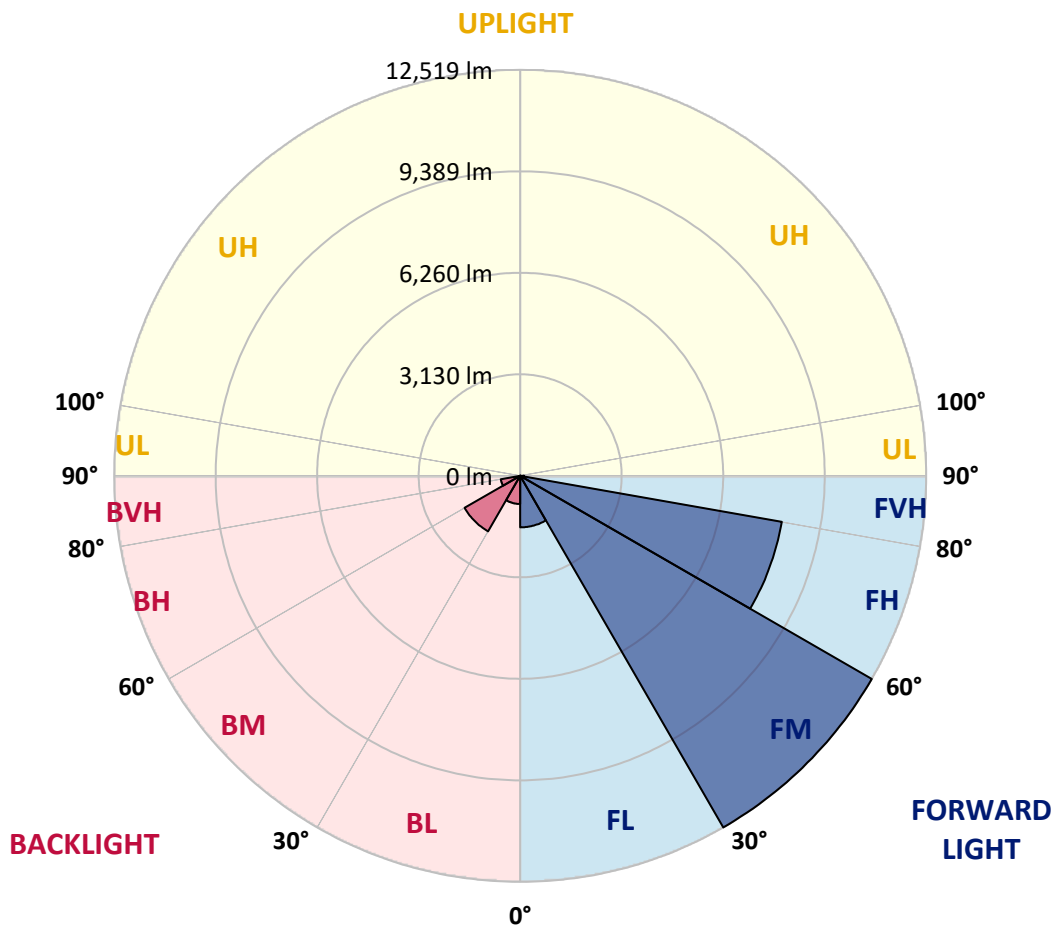
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1589.1	6.1			
FM (30°-60°)	12519.3	48.4			
FH (60°-80°)	8192.1	31.7			G4/12000
FVH (80°-90°)	116.0	0.4			G2/225
BL (0°-30°)	868.8	3.4	B2/1000		
BM (30°-60°)	1978.4	7.6	B2/2500		
BH (60°-80°)	607.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.0	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8
2.5°	2999.4	3020.2	3015.0	3009.8	3008.0	3011.5	3013.2	3011.5	3011.5	3011.5
5°	2942.1	2959.5	2959.5	2971.6	2988.9	3009.8	3025.4	3028.8	3032.3	3037.5
7.5°	2832.8	2846.7	2857.1	2897.0	2940.4	2995.9	3042.7	3067.0	3070.5	3089.6
10°	2758.2	2775.6	2792.9	2834.6	2897.0	2980.3	3060.1	3119.1	3127.7	3172.8
12.5°	2754.8	2772.1	2794.7	2839.8	2912.6	3001.1	3098.2	3183.2	3198.8	3264.8
15°	2791.2	2812.0	2832.8	2888.3	2966.4	3073.9	3178.0	3283.9	3299.5	3393.1
17.5°	2865.8	2893.5	2909.1	2964.7	3047.9	3167.6	3304.7	3426.1	3440.0	3549.3
20°	3013.2	3046.2	3051.4	3096.5	3178.0	3306.4	3469.5	3620.4	3637.7	3762.6
22.5°	3318.5	3365.4	3323.8	3346.3	3419.2	3547.5	3724.5	3915.3	3939.6	4081.8
25°	3856.3	3922.2	3814.7	3776.5	3807.7	3941.3	4163.4	4404.5	4432.2	4546.7
27.5°	4912.8	4827.8	4664.7	4505.1	4411.4	4487.8	4737.6	5035.9	5070.6	5181.7
30°	6073.3	5998.7	5778.4	5424.5	5202.5	5190.3	5421.0	5754.1	5794.0	5899.8
32.5°	7235.6	7164.5	6925.1	6489.6	6104.5	5913.7	6073.3	6442.8	6463.6	6531.3
35°	8378.8	8305.9	8066.5	7620.7	7147.1	6713.4	6682.2	7098.5	7105.5	7176.6
37.5°	9528.9	9468.2	9213.2	8776.0	8309.4	7710.9	7421.2	7719.6	7728.2	7797.6
40°	10349.4	10375.4	10200.2	9862.0	9461.2	8807.2	8250.4	8380.5	8328.5	8444.7
42.5°	11053.7	11105.8	10953.1	10783.1	10550.7	9974.7	9277.4	9254.8	9171.5	9234.0
45°	11662.6	11706.0	11568.9	11529.0	11523.8	11119.6	10399.7	10264.4	10148.2	10136.1
47.5°	11886.4	11969.7	12028.6	12162.2	12422.4	12252.4	11560.3	11350.4	11220.3	11124.9
50°	11971.4	12059.9	12261.1	12649.7	13265.5	13338.4	12715.6	12479.7	12320.1	12146.6
52.5°	11856.9	12014.8	12285.4	12939.4	13832.8	14209.2	13824.1	13617.7	13435.5	13152.8
55°	11182.1	11340.0	11893.3	12935.9	14115.5	14819.8	14871.9	14779.9	14575.2	14129.4
57.5°	9759.6	9993.8	10869.8	12495.3	14110.3	15345.5	15898.8	15964.8	15735.8	15097.4
60°	7789.0	8106.4	9175.0	11518.6	13674.9	15630.0	16799.2	17128.8	16885.9	16051.5
62.5°	5434.9	5802.7	6814.0	9988.6	12679.2	15425.3	17456.6	18065.5	17881.6	16905.0
65°	3315.1	3433.0	4248.4	7860.1	10986.1	14568.3	17659.6	18572.1	18511.3	17427.1
67.5°	2208.3	2307.2	2541.4	5389.8	8528.0	12856.1	17173.9	18483.6	18500.9	17342.1
70°	1330.5	1415.5	1568.2	3134.7	5526.9	10176.0	15669.9	17356.0	17456.6	16205.9
72.5°	548.2	605.4	744.2	1420.7	2862.3	6458.4	12477.9	14901.4	15135.6	13626.3
75°	310.5	340.0	437.2	713.0	1242.1	3009.8	7558.2	10578.4	10923.6	9391.9
77.5°	206.4	220.3	282.8	461.4	699.1	1027.0	3230.1	5511.3	6170.4	5129.6
80°	138.8	150.9	194.3	308.8	454.5	440.6	1028.7	2041.8	2511.9	1762.5
82.5°	93.7	95.4	138.8	203.0	288.0	213.4	303.6	634.9	798.0	510.0
85°	53.8	52.0	102.3	118.0	128.4	88.5	91.9	190.8	249.8	215.1
87.5°	6.9	10.4	39.9	31.2	17.3	19.1	19.1	33.0	48.6	52.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3009.8	0°	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8	3009.8
3013.2	2.5°	3013.2	3011.5	3006.3	3001.1	2988.9	2982.0	2985.5	2982.0	2980.3	2982.0
3035.8	5°	3035.8	3030.6	3016.7	2999.4	2975.1	2945.6	2926.5	2898.7	2872.7	2857.1
3096.5	7.5°	3096.5	3091.3	3072.2	3023.6	2945.6	2822.4	2709.7	2610.8	2536.2	2492.8
3193.6	10°	3193.6	3185.0	3155.5	3047.9	2843.2	2574.3	2350.6	2164.9	2043.5	1986.3
3308.1	12.5°	3308.1	3297.7	3245.7	3025.4	2648.9	2229.1	1920.4	1713.9	1601.2	1550.9
3440.0	15°	3443.4	3429.6	3327.2	2917.8	2366.2	1847.5	1564.7	1410.3	1337.5	1292.4
3608.2	17.5°	3611.7	3587.4	3387.9	2756.5	2059.1	1556.1	1346.2	1229.9	1165.7	1122.4
3828.6	20°	3830.3	3790.4	3436.5	2563.9	1776.4	1372.2	1198.7	1101.6	1053.0	1014.8
4140.8	22.5°	4135.6	4078.4	3495.5	2355.8	1576.9	1245.5	1089.4	1018.3	978.4	935.0
4576.2	25°	4513.8	4446.1	3568.3	2163.2	1439.8	1136.3	1009.6	950.6	903.8	853.5
5147.0	27.5°	5042.9	4921.4	3655.1	2005.4	1321.9	1042.6	936.8	870.8	817.1	775.4
5794.0	30°	5632.7	5433.2	3731.4	1909.9	1214.3	955.8	841.3	775.4	725.1	695.6
6375.1	32.5°	6191.3	5920.6	3781.7	1868.3	1117.2	857.0	737.3	666.1	628.0	619.3
6944.1	35°	6718.6	6361.3	3776.5	1828.4	1030.4	758.1	634.9	562.1	532.6	537.8
7556.5	37.5°	7325.8	6831.4	3740.1	1766.0	959.3	667.9	546.4	482.3	456.2	458.0
8300.7	40°	8031.8	7374.4	3717.5	1648.0	881.2	584.6	473.6	421.5	402.5	395.5
9084.8	42.5°	8784.7	7900.0	3721.0	1514.4	784.1	510.0	423.3	379.9	362.6	357.4
9957.4	45°	9541.0	8401.3	3726.2	1375.6	681.8	452.8	386.8	350.4	340.0	333.1
10842.1	47.5°	10252.3	8828.1	3629.1	1226.5	581.1	409.4	357.4	333.1	324.4	315.7
11730.3	50°	10914.9	9112.6	3394.9	1053.0	501.3	374.7	334.8	317.5	308.8	300.1
12535.2	52.5°	11430.2	9157.7	3008.0	874.3	445.8	348.7	320.9	305.3	294.9	286.2
13185.7	55°	11659.1	8874.9	2458.1	707.8	402.5	326.1	307.0	291.4	279.3	270.6
13697.5	57.5°	11600.2	8279.9	1916.9	569.0	360.8	303.6	289.7	279.3	265.4	251.5
14112.1	60°	11310.5	7483.6	1445.0	473.6	322.7	279.3	270.6	261.9	242.9	222.0
14271.7	62.5°	10809.1	6482.7	1030.4	392.0	281.0	251.5	248.1	241.1	213.4	175.2
14035.7	65°	10042.4	5266.7	693.9	326.1	241.1	220.3	222.0	209.9	173.5	130.1
13171.8	67.5°	8921.7	3851.1	444.1	267.1	201.2	183.9	185.6	178.7	147.5	111.0
11534.2	70°	7494.1	2550.1	289.7	203.0	161.3	142.2	152.7	154.4	124.9	90.2
8852.3	72.5°	5493.9	1505.7	203.0	150.9	118.0	98.9	124.9	128.4	100.6	67.7
5325.6	75°	3131.2	714.7	152.7	109.3	72.9	69.4	97.1	97.1	69.4	45.1
2305.5	77.5°	1314.9	298.4	107.6	71.1	41.6	39.9	65.9	60.7	34.7	20.8
562.1	80°	379.9	133.6	57.2	34.7	17.3	15.6	26.0	19.1	8.7	3.5
213.4	82.5°	149.2	59.0	22.6	13.9	6.9	6.9	3.5	0.0	0.0	0.0
121.4	85°	88.5	24.3	10.4	5.2	1.7	0.0	0.0	0.0	0.0	0.0
26.0	87.5°	22.6	5.2	3.5	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°
3009.8
2988.9
2860.6
2494.5
1981.1
1545.6
1294.1
1118.9
1007.9
928.1
848.3
766.8
690.4
624.5
537.8
464.9
393.8
355.6
333.1
315.7
300.1
284.5
268.9
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218.6
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