

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: P944576

Luminaire Tested: **GALN-SB9C-830-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944576  
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-SB9C-830-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

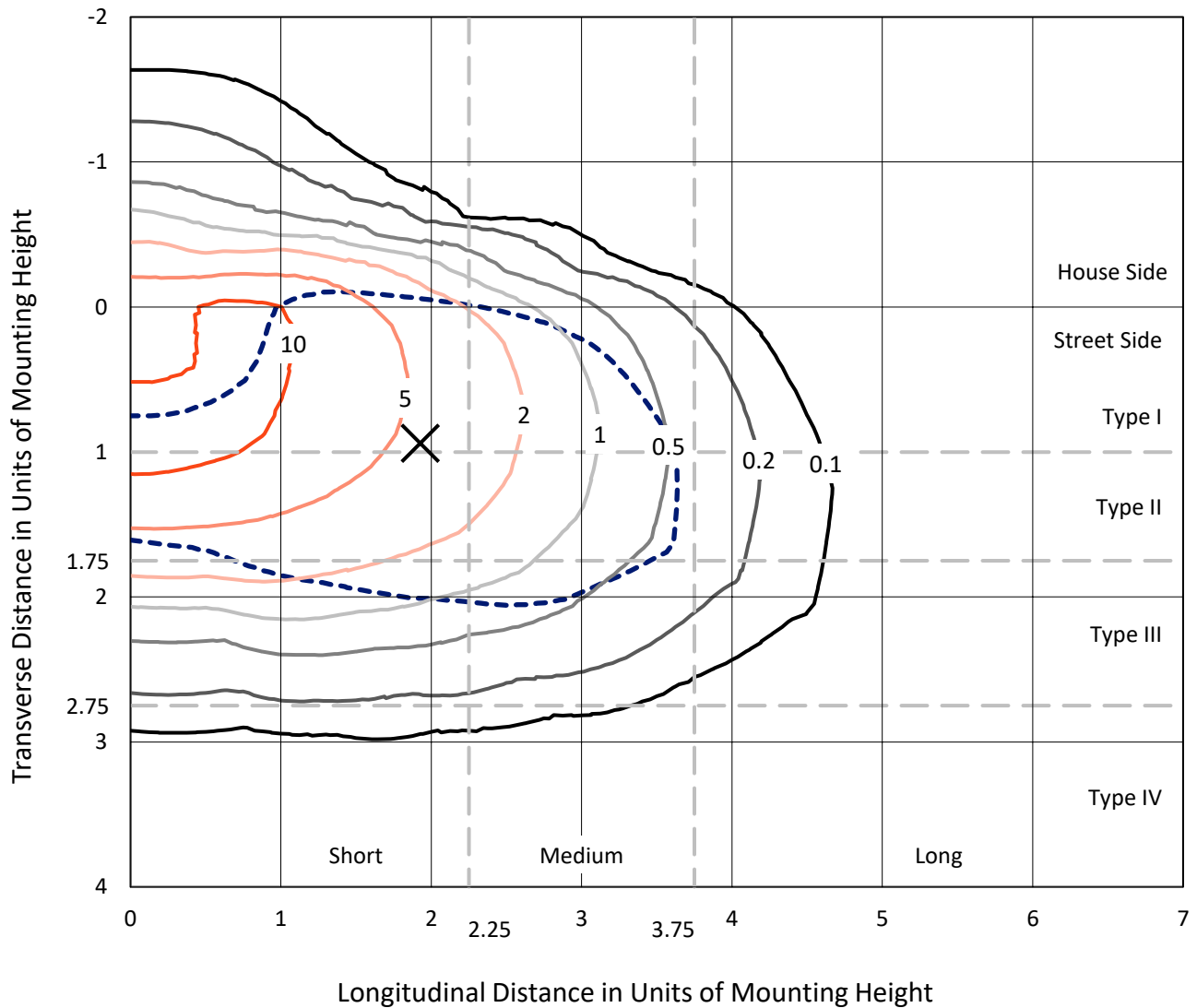
Lumens per Lamp: N/A  
Luminaire Lumens: 48071 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

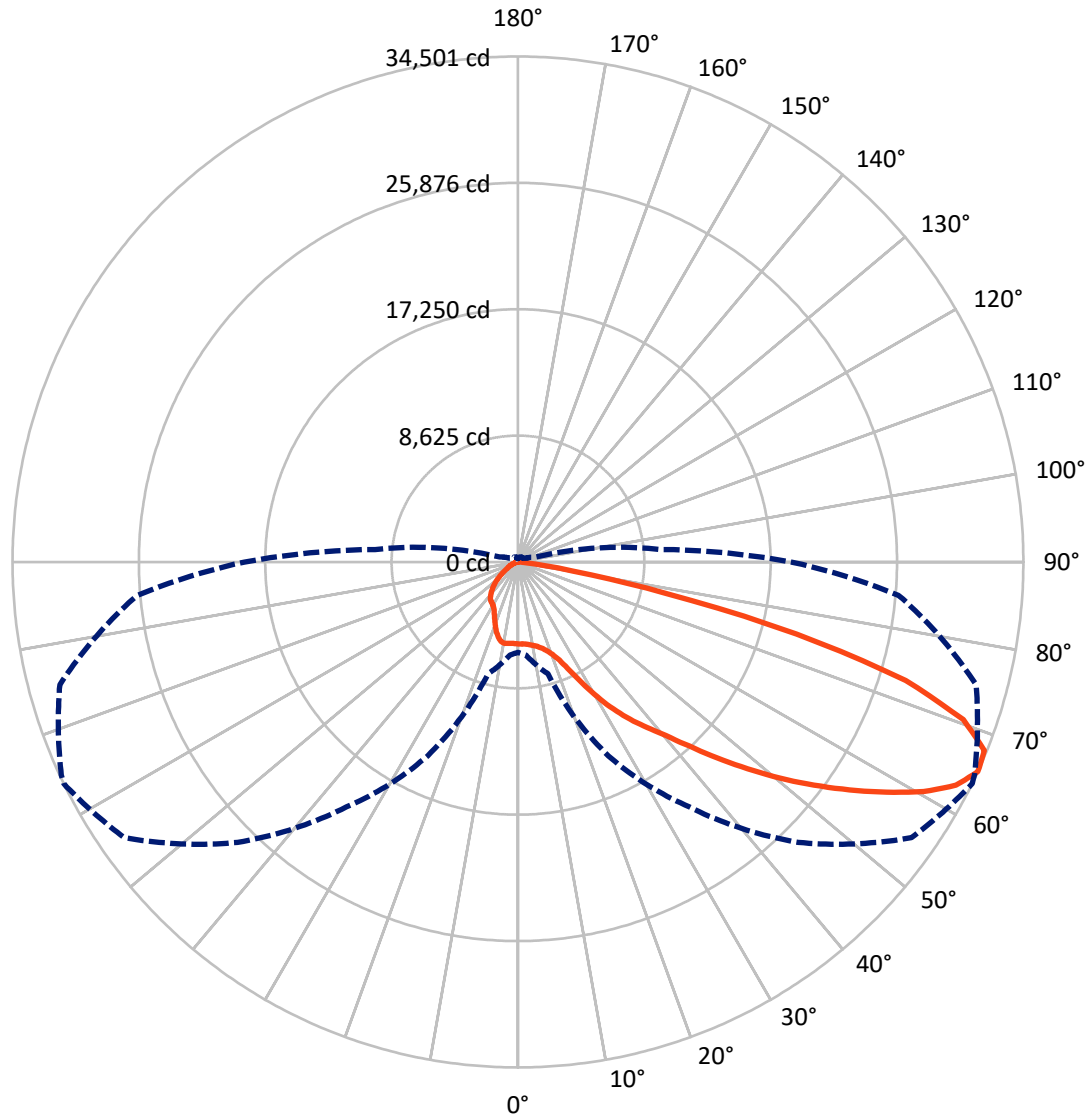
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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
<b>House Side</b>	Lumens	6428.5	0.0	6428.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	41642.4	0.0	41642.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	48071.0	0.0	48071.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.8	1.1
10°-20°	1399.1	2.9
20°-30°	2651.2	5.5
30°-40°	5364.7	11.2
40°-50°	9138.9	19.0
50°-60°	12428.2	25.9
60°-70°	11670.7	24.3
70°-80°	4675.8	9.7
80°-90°	226.5	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°	48071.0	100.0
0°-180°	48071.0	100.0

**Coefficient of Utilization**



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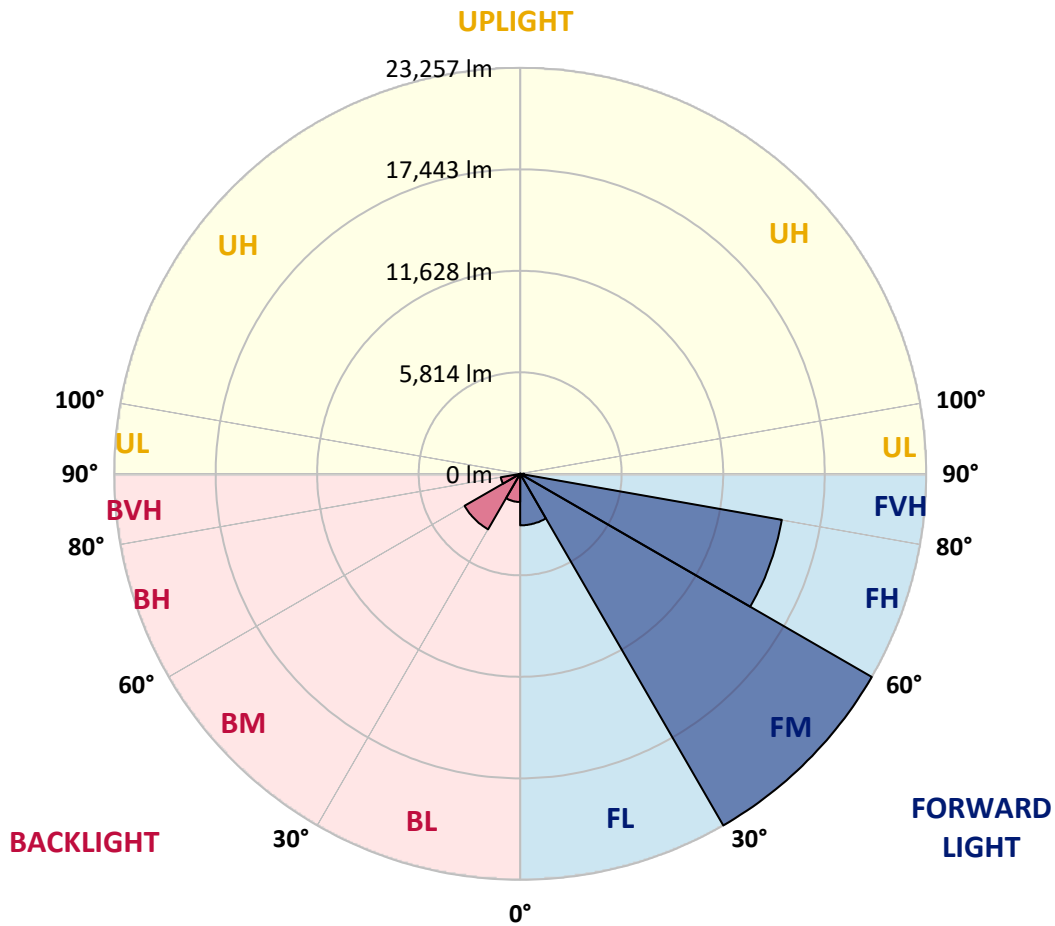
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2952.1	6.1			
FM (30°-60°)	23256.7	48.4			
FH (60°-80°)	15218.2	31.7			G5
FVH (80°-90°)	215.5	0.4			G2/225
BL (0°-30°)	1614.0	3.4	B3/2500		
BM (30°-60°)	3675.2	7.6	B3/5000		
BH (60°-80°)	1128.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.1	0.0			G1/100
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°	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2
2.5°	5571.8	5610.5	5600.8	5591.2	5587.9	5594.4	5597.6	5594.4	5594.4	5594.4
5°	5465.5	5497.7	5497.7	5520.3	5552.5	5591.2	5620.2	5626.6	5633.0	5642.7
7.5°	5262.5	5288.2	5307.6	5381.7	5462.3	5565.4	5652.4	5697.5	5703.9	5739.4
10°	5123.9	5156.1	5188.3	5265.7	5381.7	5536.4	5684.6	5794.2	5810.3	5894.1
12.5°	5117.4	5149.7	5191.6	5275.3	5410.7	5575.0	5755.5	5913.4	5942.4	6064.9
15°	5185.1	5223.8	5262.5	5365.6	5510.6	5710.4	5903.7	6100.3	6129.3	6303.3
17.5°	5323.7	5375.2	5404.2	5507.4	5662.1	5884.4	6139.0	6364.6	6390.4	6593.4
20°	5597.6	5658.8	5668.5	5752.3	5903.7	6142.2	6445.1	6725.5	6757.7	6989.8
22.5°	6164.8	6251.8	6174.4	6216.3	6351.7	6590.2	6918.9	7273.3	7318.5	7582.7
25°	7163.8	7286.2	7086.4	7015.5	7073.5	7321.7	7734.2	8182.1	8233.7	8446.4
27.5°	9126.3	8968.4	8665.5	8369.0	8195.0	8336.8	8800.8	9355.1	9419.6	9625.8
30°	11282.2	11143.6	10734.4	10077.0	9664.5	9641.9	10070.5	10689.3	10763.4	10960.0
32.5°	13441.3	13309.2	12864.5	12055.6	11340.2	10985.7	11282.2	11968.6	12007.3	12133.0
35°	15565.0	15429.7	14984.9	14156.7	13277.0	12471.3	12413.3	13186.8	13199.6	13331.8
37.5°	17701.6	17588.8	17115.1	16303.0	15436.1	14324.3	13786.1	14340.4	14356.5	14485.4
40°	19225.8	19274.2	18948.7	18320.3	17575.9	16361.0	15326.5	15568.2	15471.6	15687.5
42.5°	20534.2	20630.9	20347.3	20031.5	19599.7	18529.8	17234.3	17192.4	17037.7	17153.7
45°	21665.3	21745.9	21491.3	21417.2	21407.5	20656.7	19319.3	19067.9	18852.0	18829.5
47.5°	22081.0	22235.7	22345.3	22593.4	23076.8	22761.0	21475.2	21085.3	20843.6	20666.3
50°	22238.9	22403.3	22777.1	23499.0	24643.0	24778.3	23621.4	23183.2	22886.7	22564.4
52.5°	22026.3	22319.5	22822.2	24037.1	25696.8	26396.1	25680.6	25297.2	24958.8	24433.5
55°	20772.7	21065.9	22093.9	24030.7	26222.0	27530.4	27627.1	27456.3	27076.0	26247.8
57.5°	18130.2	18565.2	20192.6	23212.2	26212.4	28506.8	29534.8	29657.3	29231.9	28046.0
60°	14469.3	15059.1	17044.2	21397.9	25403.5	29035.3	31207.4	31819.6	31368.5	29818.4
62.5°	10096.3	10779.5	12658.2	18555.5	23553.8	28655.1	32428.7	33559.8	33218.2	31403.9
65°	6158.3	6377.5	7892.1	14601.5	20408.5	27063.1	32805.7	34500.8	34388.0	32373.9
67.5°	4102.3	4286.0	4721.1	10012.5	15842.1	23882.5	31903.4	34336.5	34368.7	32216.0
70°	2471.7	2629.6	2913.2	5823.2	10267.1	18903.6	29109.5	32241.8	32428.7	30105.2
72.5°	1018.3	1124.7	1382.5	2639.3	5317.2	11997.6	23179.9	27681.9	28116.9	25313.3
75°	576.8	631.6	812.1	1324.5	2307.4	5591.2	14040.7	19651.2	20292.5	17447.0
77.5°	383.5	409.3	525.3	857.2	1298.7	1907.8	6000.4	10238.1	11462.7	9529.1
80°	257.8	280.4	360.9	573.6	844.3	818.5	1911.0	3793.0	4666.3	3274.1
82.5°	174.0	177.2	257.8	377.0	534.9	396.4	563.9	1179.5	1482.4	947.4
85°	99.9	96.7	190.1	219.1	238.5	164.4	170.8	354.5	464.0	399.6
87.5°	12.9	19.3	74.1	58.0	32.2	35.4	35.4	61.2	90.2	96.7
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°
5591.2	0°	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2	5591.2
5597.6	2.5°	5597.6	5594.4	5584.7	5575.0	5552.5	5539.6	5546.0	5539.6	5536.4	5539.6
5639.5	5°	5639.5	5629.8	5604.0	5571.8	5526.7	5471.9	5436.5	5384.9	5336.6	5307.6
5752.3	7.5°	5752.3	5742.6	5707.2	5616.9	5471.9	5243.1	5033.7	4850.0	4711.4	4630.8
5932.7	10°	5932.7	5916.6	5861.9	5662.1	5281.8	4782.3	4366.6	4021.8	3796.2	3689.8
6145.4	12.5°	6145.4	6126.1	6029.4	5620.2	4920.9	4141.0	3567.4	3183.9	2974.4	2881.0
6390.4	15°	6396.8	6371.0	6180.9	5420.4	4395.6	3432.0	2906.8	2619.9	2484.6	2400.8
6702.9	17.5°	6709.4	6664.3	6293.7	5120.7	3825.2	2890.6	2500.7	2284.8	2165.6	2085.0
7112.2	20°	7115.4	7041.3	6383.9	4763.0	3299.9	2549.1	2226.8	2046.3	1956.1	1885.2
7692.3	22.5°	7682.6	7576.3	6493.5	4376.2	2929.3	2313.8	2023.8	1891.6	1817.5	1737.0
8501.1	25°	8385.1	8259.4	6628.8	4018.5	2674.7	2110.8	1875.5	1766.0	1679.0	1585.5
9561.4	27.5°	9368.0	9142.4	6790.0	3725.3	2455.6	1936.8	1740.2	1617.7	1517.8	1440.5
10763.4	30°	10463.7	10093.1	6931.7	3548.0	2255.8	1775.6	1562.9	1440.5	1347.0	1292.2
11842.9	32.5°	11501.3	10998.6	7025.2	3470.7	2075.3	1591.9	1369.6	1237.5	1166.6	1150.5
12899.9	35°	12481.0	11817.2	7015.5	3396.6	1914.2	1408.3	1179.5	1044.1	989.3	999.0
14037.5	37.5°	13608.9	12690.5	6947.9	3280.6	1782.1	1240.7	1015.1	895.9	847.5	850.8
15420.0	40°	14920.5	13699.1	6906.0	3061.4	1637.1	1086.0	879.8	783.1	747.6	734.7
16876.6	42.5°	16319.1	14675.6	6912.4	2813.3	1456.6	947.4	786.3	705.7	673.5	663.8
18497.5	45°	17724.1	15606.9	6922.1	2555.5	1266.5	841.1	718.6	651.0	631.6	618.7
20141.1	47.5°	19045.4	16399.7	6741.6	2278.4	1079.6	760.5	663.8	618.7	602.6	586.5
21791.0	50°	20276.4	16928.2	6306.6	1956.1	931.3	696.1	622.0	589.7	573.6	557.5
23286.3	52.5°	21233.5	17011.9	5587.9	1624.2	828.2	647.7	596.2	567.2	547.8	531.7
24494.7	55°	21658.9	16486.7	4566.4	1314.8	747.6	605.8	570.4	541.4	518.8	502.7
25445.4	57.5°	21549.3	15381.3	3560.9	1057.0	670.3	563.9	538.2	518.8	493.1	467.3
26215.6	60°	21011.1	13902.2	2684.4	879.8	599.4	518.8	502.7	486.6	451.2	412.5
26512.1	62.5°	20079.8	12042.7	1914.2	728.3	522.1	467.3	460.8	447.9	396.4	325.5
26073.8	65°	18655.4	9783.7	1289.0	605.8	447.9	409.3	412.5	389.9	322.3	241.7
24469.0	67.5°	16573.7	7154.1	825.0	496.3	373.8	341.6	344.8	331.9	273.9	206.2
21426.9	70°	13921.5	4737.2	538.2	377.0	299.7	264.3	283.6	286.8	232.0	167.6
16444.8	72.5°	10205.9	2797.2	377.0	280.4	219.1	183.7	232.0	238.5	186.9	125.7
9893.3	75°	5816.7	1327.7	283.6	203.0	135.3	128.9	180.5	180.5	128.9	83.8
4282.8	77.5°	2442.7	554.3	199.8	132.1	77.3	74.1	122.5	112.8	64.5	38.7
1044.1	80°	705.7	248.1	106.3	64.5	32.2	29.0	48.3	35.4	16.1	6.4
396.4	82.5°	277.1	109.6	41.9	25.8	12.9	12.9	6.4	0.0	0.0	0.0
225.6	85°	164.4	45.1	19.3	9.7	3.2	0.0	0.0	0.0	0.0	0.0
48.3	87.5°	41.9	9.7	6.4	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°  
5591.2  
5552.5  
5314.0  
4634.1  
3680.2  
2871.3  
2404.0  
2078.6  
1872.3  
1724.1  
1575.8  
1424.4  
1282.6  
1160.1  
999.0  
863.6  
731.5  
660.6  
618.7  
586.5  
557.5  
528.5  
499.5  
464.0  
406.0  
319.0  
235.2  
196.6  
161.1  
119.2  
77.3  
38.7  
6.4  
0.0  
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0.0

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