

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: P944606

Luminaire Tested: **GALN-SB9C-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944606
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-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 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: 51172 lumens
Efficiency: N/A
Efficacy: 113.8 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

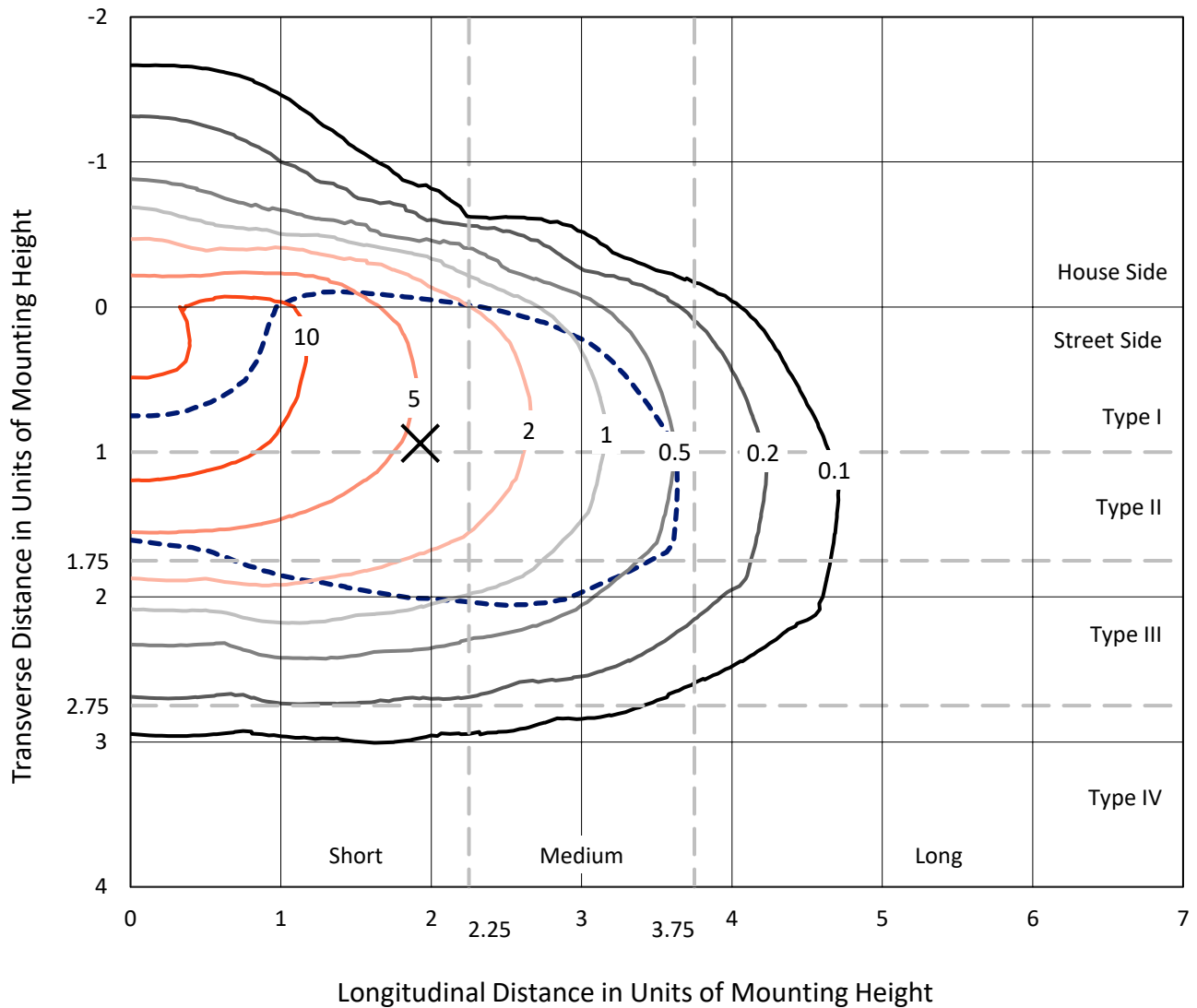
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

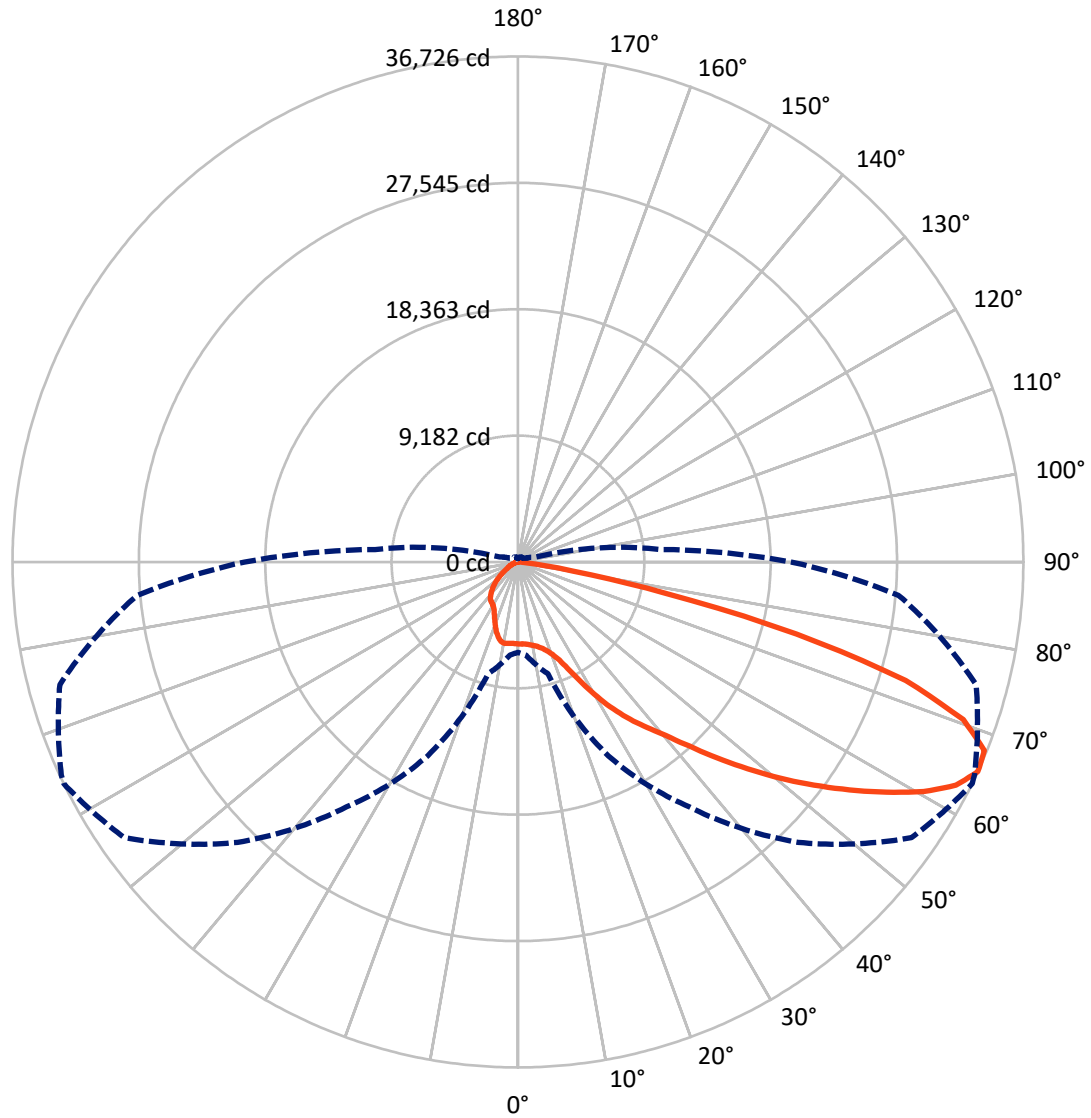
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	6843.3	0.0	6843.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	44328.8	0.0	44328.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	51172.0	0.0	51172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.1	1.1
10°-20°	1489.4	2.9
20°-30°	2822.2	5.5
30°-40°	5710.8	11.2
40°-50°	9728.4	19.0
50°-60°	13229.9	25.9
60°-70°	12423.6	24.3
70°-80°	4977.4	9.7
80°-90°	241.1	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°	51172.0	100.0
0°-180°	51172.0	100.0

Coefficient of Utilization



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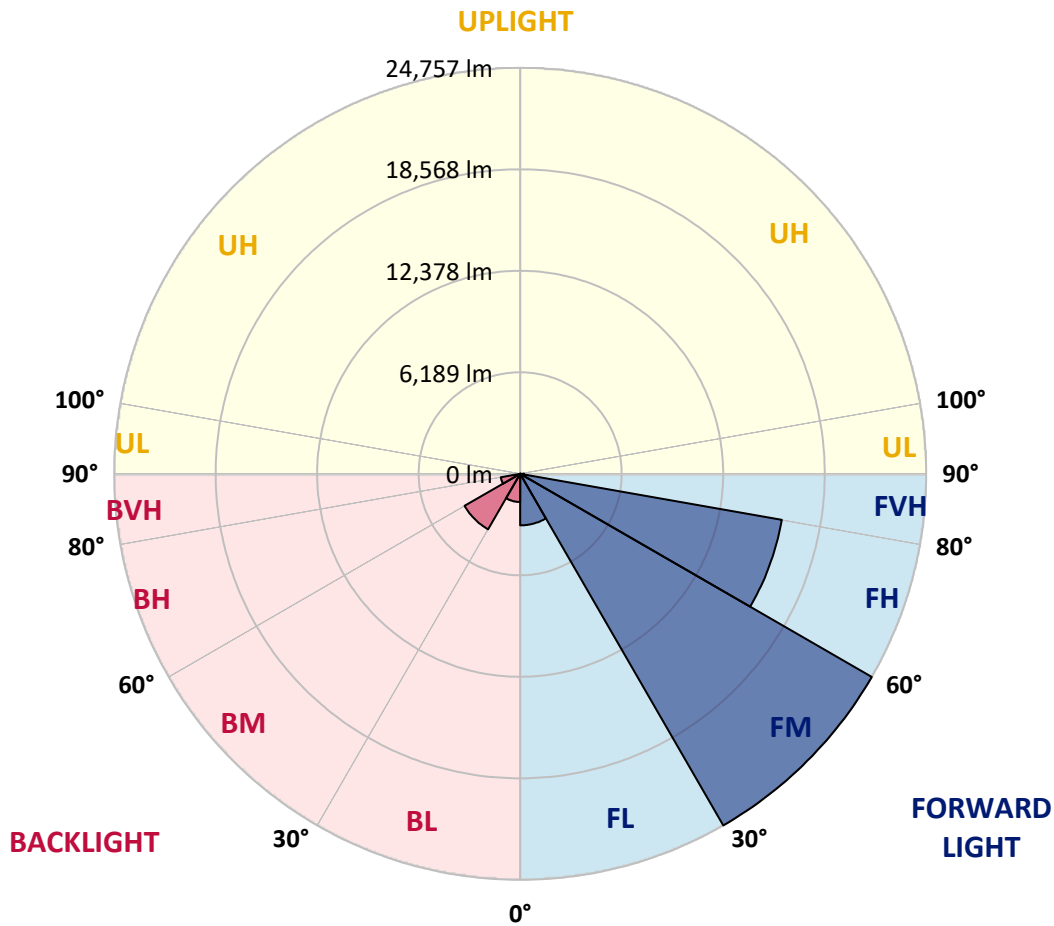
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3142.6	6.1			
FM (30°-60°)	24757.0	48.4			
FH (60°-80°)	16199.9	31.7			G5
FVH (80°-90°)	229.4	0.4			G3/500
BL (0°-30°)	1718.1	3.4	B3/2500		
BM (30°-60°)	3912.2	7.6	B3/5000		
BH (60°-80°)	1201.1	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.8	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°	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8
2.5°	5931.3	5972.4	5962.1	5951.8	5948.4	5955.3	5958.7	5955.3	5955.3	5955.3
5°	5818.0	5852.4	5852.4	5876.4	5910.7	5951.8	5982.7	5989.6	5996.4	6006.7
7.5°	5601.9	5629.4	5650.0	5728.9	5814.6	5924.4	6017.0	6065.0	6071.9	6109.6
10°	5454.4	5488.7	5523.0	5605.4	5728.9	5893.5	6051.3	6168.0	6185.1	6274.3
12.5°	5447.6	5481.9	5526.5	5615.7	5759.7	5934.7	6126.8	6294.9	6325.8	6456.1
15°	5519.6	5560.8	5601.9	5711.7	5866.1	6078.8	6284.6	6493.8	6524.7	6710.0
17.5°	5667.1	5722.0	5752.9	5862.6	6027.3	6264.0	6535.0	6775.1	6802.6	7018.7
20°	5958.7	6023.9	6034.2	6123.4	6284.6	6538.4	6860.9	7159.4	7193.7	7440.7
22.5°	6562.5	6655.1	6572.7	6617.3	6761.4	7015.3	7365.2	7742.5	7790.6	8071.9
25°	7625.9	7756.3	7543.6	7468.1	7529.8	7794.0	8233.1	8709.9	8764.8	8991.2
27.5°	9715.0	9546.9	9224.5	8908.9	8723.6	8874.6	9368.6	9958.6	10027.2	10246.8
30°	12010.0	11862.5	11426.8	10727.0	10287.9	10263.9	10720.2	11378.8	11457.7	11667.0
32.5°	14308.4	14167.8	13694.4	12833.3	12071.8	11694.4	12010.0	12740.7	12781.9	12915.7
35°	16569.1	16425.0	15951.6	15070.0	14133.5	13275.9	13214.1	14037.4	14051.1	14191.8
37.5°	18843.5	18723.4	18219.1	17354.7	16431.9	15248.4	14675.5	15265.5	15282.7	15419.9
40°	20466.1	20517.5	20171.1	19502.1	18709.7	17416.4	16315.2	16572.5	16469.6	16699.4
42.5°	21858.8	21961.8	21659.9	21323.7	20864.0	19725.1	18346.1	18301.5	18136.8	18260.3
45°	23062.9	23148.7	22877.7	22798.8	22788.5	21989.2	20565.6	20298.0	20068.1	20044.1
47.5°	23505.5	23670.1	23786.8	24050.9	24565.5	24229.3	22860.5	22445.5	22188.2	21999.5
50°	23673.6	23848.5	24246.4	25014.9	26232.7	26376.7	25145.2	24678.7	24363.1	24020.0
52.5°	23447.1	23759.3	24294.5	25587.7	27354.4	28098.8	27337.3	26929.1	26568.9	26009.7
55°	22112.7	22424.9	23519.2	25580.9	27913.6	29306.4	29409.3	29227.5	28822.7	27941.0
57.5°	19299.7	19762.8	21495.2	24709.5	27903.3	30345.8	31440.1	31570.5	31117.6	29855.2
60°	15402.7	16030.5	18143.7	22778.2	27042.3	30908.4	33220.5	33872.3	33392.0	31742.0
62.5°	10747.6	11474.9	13474.8	19752.5	25073.2	30503.6	34520.6	35724.7	35361.1	33429.8
65°	6555.6	6788.9	8401.2	15543.4	21725.1	28808.9	34922.0	36726.4	36606.4	34462.3
67.5°	4367.0	4562.5	5025.6	10658.4	16864.1	25423.1	33961.5	36551.5	36585.8	34294.2
70°	2631.2	2799.2	3101.1	6198.8	10929.4	20123.0	30987.3	34321.7	34520.6	32047.3
72.5°	1084.0	1197.2	1471.7	2809.5	5660.2	12771.6	24675.2	29467.6	29930.7	26946.2
75°	614.1	672.4	864.5	1409.9	2456.2	5951.8	14946.5	20918.9	21601.6	18572.5
77.5°	408.2	435.7	559.2	912.5	1382.5	2030.8	6387.5	10898.5	12202.1	10143.8
80°	274.4	298.4	384.2	610.6	898.8	871.3	2034.3	4037.6	4967.3	3485.3
82.5°	185.2	188.7	274.4	401.4	569.5	421.9	600.3	1255.5	1578.0	1008.6
85°	106.3	102.9	202.4	233.3	253.9	175.0	181.8	377.3	494.0	425.4
87.5°	13.7	20.6	78.9	61.7	34.3	37.7	37.7	65.2	96.1	102.9
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°
5951.8	0°	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8	5951.8
5958.7	2.5°	5958.7	5955.3	5945.0	5934.7	5910.7	5896.9	5903.8	5896.9	5893.5	5896.9
6003.3	5°	6003.3	5993.0	5965.6	5931.3	5883.2	5824.9	5787.2	5732.3	5680.8	5650.0
6123.4	7.5°	6123.4	6113.1	6075.3	5979.3	5824.9	5581.3	5358.4	5162.8	5015.3	4929.6
6315.5	10°	6315.5	6298.3	6240.0	6027.3	5622.5	5090.8	4648.3	4281.2	4041.1	3927.9
6541.9	12.5°	6541.9	6521.3	6418.4	5982.7	5238.3	4408.1	3797.5	3389.3	3166.3	3066.8
6802.6	15°	6809.4	6782.0	6579.6	5770.0	4679.1	3653.4	3094.3	2789.0	2644.9	2555.7
7135.3	17.5°	7142.2	7094.2	6699.7	5451.0	4071.9	3077.1	2662.0	2432.2	2305.3	2219.5
7571.0	20°	7574.4	7495.5	6795.7	5070.2	3512.8	2713.5	2370.4	2178.3	2082.3	2006.8
8188.5	22.5°	8178.2	8065.0	6912.4	4658.6	3118.3	2463.1	2154.3	2013.7	1934.8	1849.0
9049.5	25°	8926.0	8792.2	7056.4	4277.8	2847.3	2246.9	1996.5	1879.9	1787.3	1687.8
10178.2	27.5°	9972.3	9732.2	7228.0	3965.6	2614.0	2061.7	1852.4	1722.1	1615.7	1533.4
11457.7	30°	11138.7	10744.2	7378.9	3776.9	2401.3	1890.2	1663.8	1533.4	1433.9	1375.6
12606.9	32.5°	12243.3	11708.1	7478.4	3694.6	2209.2	1694.6	1457.9	1317.3	1241.8	1224.7
13732.1	35°	13286.1	12579.5	7468.1	3615.7	2037.7	1499.1	1255.5	1111.5	1053.1	1063.4
14943.1	37.5°	14486.8	13509.1	7396.1	3492.2	1897.0	1320.7	1080.6	953.7	902.2	905.6
16414.7	40°	15883.0	14582.9	7351.5	3258.9	1742.7	1156.1	936.5	833.6	795.9	782.1
17965.3	42.5°	17371.8	15622.3	7358.3	2994.8	1550.6	1008.6	837.0	751.3	717.0	706.7
19690.8	45°	18867.5	16613.7	7368.6	2720.3	1348.2	895.3	765.0	693.0	672.4	658.6
21440.3	47.5°	20274.0	17457.6	7176.5	2425.3	1149.2	809.6	706.7	658.6	641.5	624.3
23196.7	50°	21584.4	18020.2	6713.4	2082.3	991.4	741.0	662.1	627.8	610.6	593.5
24788.4	52.5°	22603.3	18109.4	5948.4	1728.9	881.6	689.5	634.6	603.8	583.2	566.0
26074.9	55°	23056.1	17550.2	4861.0	1399.6	795.9	644.9	607.2	576.3	552.3	535.2
27086.9	57.5°	22939.4	16373.5	3790.6	1125.2	713.5	600.3	572.9	552.3	524.9	497.4
27906.7	60°	22366.5	14799.0	2857.6	936.5	638.1	552.3	535.2	518.0	480.3	439.1
28222.3	62.5°	21375.1	12819.6	2037.7	775.3	555.7	497.4	490.6	476.8	421.9	346.5
27755.8	65°	19858.9	10414.9	1372.2	644.9	476.8	435.7	439.1	415.1	343.0	257.3
26047.4	67.5°	17642.8	7615.6	878.2	528.3	397.9	363.6	367.1	353.3	291.6	219.5
22809.1	70°	14819.6	5042.8	572.9	401.4	319.0	281.3	301.9	305.3	247.0	178.4
17505.6	72.5°	10864.2	2977.6	401.4	298.4	233.3	195.5	247.0	253.9	199.0	133.8
10531.5	75°	6192.0	1413.3	301.9	216.1	144.1	137.2	192.1	192.1	137.2	89.2
4559.1	77.5°	2600.3	590.0	212.7	140.6	82.3	78.9	130.4	120.1	68.6	41.2
1111.5	80°	751.3	264.1	113.2	68.6	34.3	30.9	51.5	37.7	17.2	6.9
421.9	82.5°	295.0	116.6	44.6	27.4	13.7	13.7	6.9	0.0	0.0	0.0
240.1	85°	175.0	48.0	20.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0
51.5	87.5°	44.6	10.3	6.9	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°
5951.8
5910.7
5656.8
4933.0
3917.6
3056.5
2559.1
2212.6
1993.1
1835.3
1677.5
1516.3
1365.3
1235.0
1063.4
919.4
778.7
703.2
658.6
624.3
593.5
562.6
531.7
494.0
432.2
339.6
250.4
209.3
171.5
126.9
82.3
41.2
6.9
0.0
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