

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: P944746

Luminaire Tested: **GALN-SB9D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944746
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-SB9D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA 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: 65318 lumens
Efficiency: N/A
Efficacy: 99.3 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

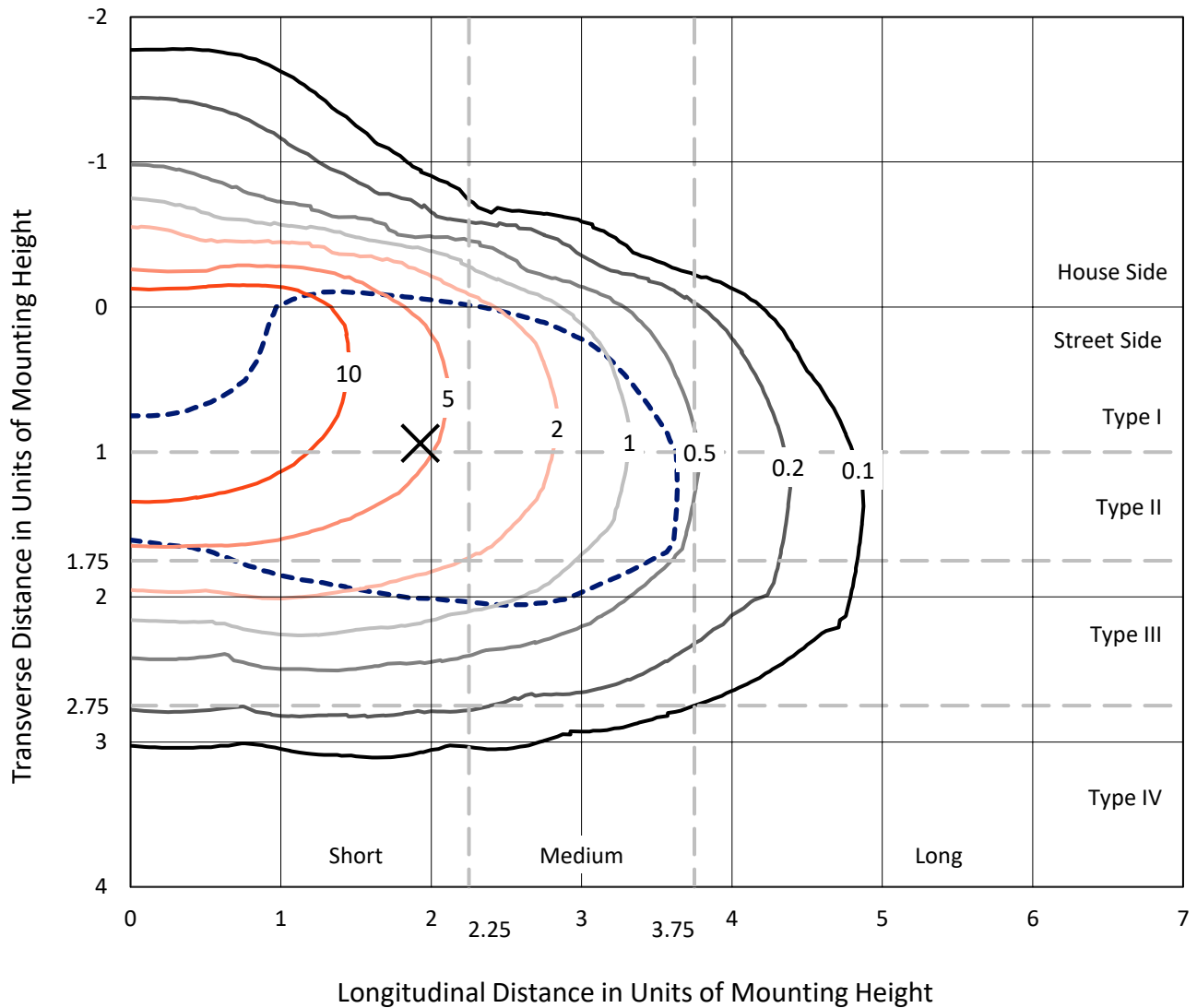
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

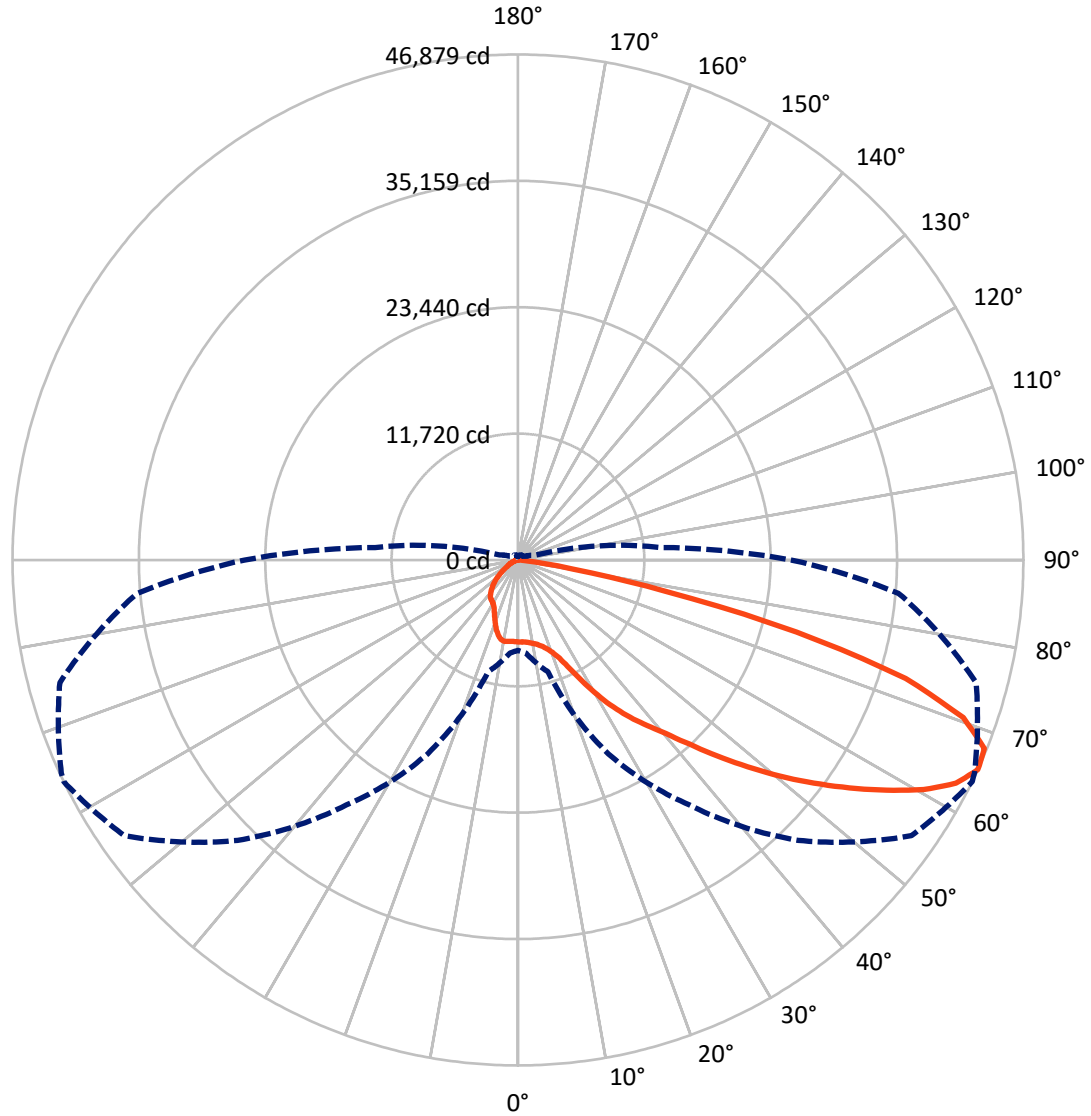
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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
House Side	Lumens	8735.0	0.0	8735.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	56583.0	0.0	56583.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	65318.0	0.0	65318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.9	1.1
10°-20°	1901.1	2.9
20°-30°	3602.4	5.5
30°-40°	7289.5	11.2
40°-50°	12417.8	19.0
50°-60°	16887.2	25.9
60°-70°	15857.9	24.3
70°-80°	6353.4	9.7
80°-90°	307.8	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°	65318.0	100.0
0°-180°	65318.0	100.0

Coefficient of Utilization



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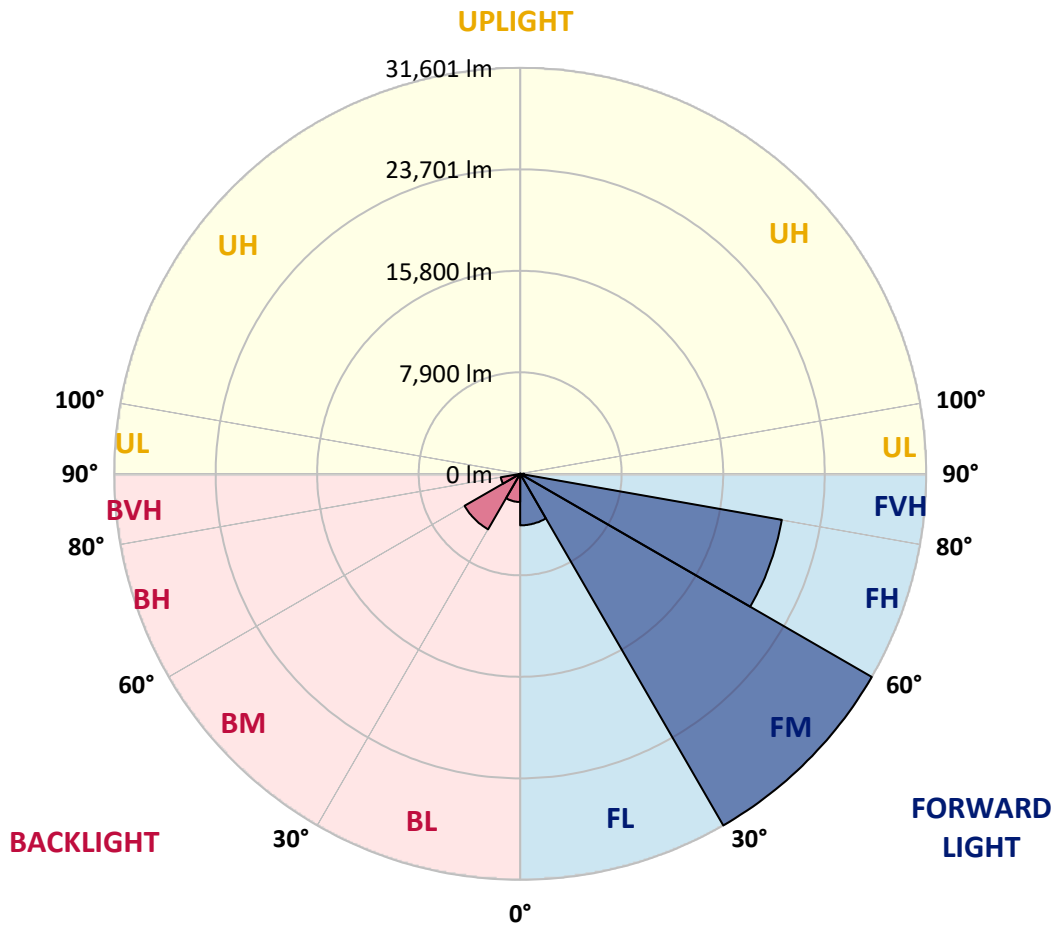
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4011.3	6.1			
FM (30°-60°)	31600.8	48.4			
FH (60°-80°)	20678.2	31.7			G5
FVH (80°-90°)	292.8	0.4			G3/500
BL (0°-30°)	2193.1	3.4	B3/2500		
BM (30°-60°)	4993.7	7.6	B3/5000		
BH (60°-80°)	1533.1	2.3	B3/2500		G3/2500
BVH (80°-90°)	15.0	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°	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2
2.5°	7570.9	7623.4	7610.3	7597.2	7592.8	7601.5	7605.9	7601.5	7601.5	7601.5
5°	7426.4	7470.2	7470.2	7500.8	7544.6	7597.2	7636.6	7645.3	7654.1	7667.2
7.5°	7150.5	7185.6	7211.8	7312.5	7422.0	7562.1	7680.4	7741.7	7750.4	7798.6
10°	6962.2	7006.0	7049.8	7154.9	7312.5	7522.7	7724.1	7873.0	7894.9	8008.8
12.5°	6953.5	6997.3	7054.2	7168.0	7352.0	7575.3	7820.5	8035.0	8074.4	8240.8
15°	7045.4	7098.0	7150.5	7290.6	7487.7	7759.2	8021.9	8289.0	8328.4	8564.9
17.5°	7233.7	7303.8	7343.2	7483.3	7693.5	7995.6	8341.6	8648.1	8683.1	8959.0
20°	7605.9	7689.1	7702.3	7816.1	8021.9	8345.9	8757.5	9138.5	9182.3	9497.5
22.5°	8376.6	8494.8	8389.7	8446.6	8630.6	8954.6	9401.2	9882.9	9944.2	10303.2
25°	9734.0	9900.4	9628.9	9532.6	9611.4	9948.6	10509.0	11117.7	11187.8	11476.7
27.5°	12400.7	12186.1	11774.5	11371.7	11135.2	11327.9	11958.4	12711.6	12799.1	13079.4
30°	15330.1	15141.8	14585.7	13692.4	13131.9	13101.3	13683.6	14524.4	14625.1	14892.2
32.5°	18263.8	18084.3	17480.0	16381.0	15408.9	14927.2	15330.1	16262.7	16315.3	16486.1
35°	21149.4	20965.5	20361.3	19235.9	18040.5	16945.8	16867.0	17917.9	17935.4	18115.0
37.5°	24052.6	23899.3	23255.6	22152.2	20974.3	19463.6	18732.4	19485.5	19507.4	19682.6
40°	26123.7	26189.4	25747.2	24893.3	23881.8	22231.0	20825.4	21153.8	21022.5	21315.8
42.5°	27901.5	28032.9	27647.5	27218.4	26631.7	25177.9	23417.6	23360.7	23150.5	23308.2
45°	29438.5	29547.9	29202.0	29101.3	29088.2	28067.9	26250.7	25909.2	25615.8	25585.1
47.5°	30003.3	30213.5	30362.4	30699.5	31356.4	30927.2	29180.1	28650.3	28321.9	28081.0
50°	30217.9	30441.2	30949.1	31930.0	33484.4	33668.3	32096.4	31500.9	31098.0	30660.1
52.5°	29928.9	30327.3	31010.4	32661.2	34916.3	35866.5	34894.4	34373.3	33913.6	33199.8
55°	28225.5	28624.0	30020.8	32652.5	35630.0	37407.8	37539.2	37307.1	36790.4	35665.1
57.5°	24634.9	25226.1	27437.4	31540.3	35616.9	38734.6	40131.4	40297.8	39719.8	38108.4
60°	19660.7	20462.0	23159.3	29075.0	34517.8	39452.7	42404.0	43236.0	42622.9	40516.7
62.5°	13718.7	14647.0	17199.8	25212.9	32004.4	38936.0	44063.5	45600.5	45136.3	42671.1
65°	8367.8	8665.6	10723.6	19840.2	27730.7	36772.9	44575.9	46879.1	46725.8	43989.1
67.5°	5574.2	5823.8	6414.9	13604.8	21526.0	32451.0	43349.8	46655.8	46699.6	43774.5
70°	3358.5	3573.1	3958.4	7912.4	13950.8	25685.9	39553.4	43809.6	44063.5	40906.4
72.5°	1383.7	1528.2	1878.5	3586.2	7225.0	16302.2	31496.5	37613.6	38204.7	34395.2
75°	783.8	858.2	1103.4	1799.7	3135.2	7597.2	19078.3	26701.7	27573.1	23706.6
77.5°	521.1	556.1	713.7	1164.8	1764.6	2592.2	8153.3	13911.3	15575.3	12948.0
80°	350.3	381.0	490.4	779.4	1147.2	1112.2	2596.6	5153.8	6340.5	4448.8
82.5°	236.5	240.8	350.3	512.3	726.9	538.6	766.3	1602.6	2014.2	1287.4
85°	135.7	131.4	258.3	297.8	324.0	223.3	232.1	481.7	630.5	543.0
87.5°	17.5	26.3	100.7	78.8	43.8	48.2	48.2	83.2	122.6	131.4
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°
7597.2	0°	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2	7597.2
7605.9	2.5°	7605.9	7601.5	7588.4	7575.3	7544.6	7527.1	7535.9	7527.1	7522.7	7527.1
7662.8	5°	7662.8	7649.7	7614.7	7570.9	7509.6	7435.1	7387.0	7316.9	7251.2	7211.8
7816.1	7.5°	7816.1	7803.0	7754.8	7632.2	7435.1	7124.3	6839.6	6590.0	6401.8	6292.3
8061.3	10°	8061.3	8039.4	7965.0	7693.5	7176.8	6498.1	5933.2	5464.7	5158.2	5013.7
8350.3	12.5°	8350.3	8324.0	8192.7	7636.6	6686.4	5626.7	4847.3	4326.2	4041.6	3914.6
8683.1	15°	8691.9	8656.8	8398.5	7365.1	5972.6	4663.4	3949.6	3559.9	3376.0	3262.2
9107.8	17.5°	9116.6	9055.3	8551.7	6957.9	5197.6	3927.8	3397.9	3104.5	2942.5	2833.1
9663.9	20°	9668.3	9567.6	8674.3	6471.8	4483.9	3463.6	3025.7	2780.5	2657.9	2561.6
10452.1	22.5°	10439.0	10294.5	8823.2	5946.4	3980.3	3144.0	2749.9	2570.3	2469.6	2360.2
11551.2	25°	11393.6	11222.8	9007.1	5460.3	3634.4	2868.1	2548.4	2399.6	2281.3	2154.4
12991.8	27.5°	12729.1	12422.6	9226.1	5061.9	3336.6	2631.6	2364.5	2198.1	2062.4	1957.3
14625.1	30°	14217.9	13714.3	9418.7	4821.0	3065.1	2412.7	2123.7	1957.3	1830.3	1755.9
16092.0	32.5°	15627.8	14944.7	9545.7	4715.9	2819.9	2163.1	1861.0	1681.4	1585.1	1563.2
17528.2	35°	16959.0	16056.9	9532.6	4615.2	2601.0	1913.5	1602.6	1418.7	1344.3	1357.4
19073.9	37.5°	18491.5	17243.6	9440.6	4457.6	2421.5	1685.8	1379.3	1217.3	1151.6	1156.0
20952.4	40°	20273.7	18614.1	9383.7	4159.8	2224.4	1475.6	1195.4	1064.0	1015.9	998.4
22931.6	42.5°	22174.1	19940.9	9392.5	3822.7	1979.2	1287.4	1068.4	959.0	915.2	902.0
25134.1	45°	24083.2	21206.4	9405.6	3472.4	1720.9	1142.9	976.5	884.5	858.2	840.7
27367.3	47.5°	25878.5	22283.5	9160.4	3095.8	1466.9	1033.4	902.0	840.7	818.8	796.9
29609.2	50°	27551.2	23001.7	8569.2	2657.9	1265.5	945.8	845.1	801.3	779.4	757.5
31641.0	52.5°	28851.7	23115.5	7592.8	2206.9	1125.3	880.1	810.1	770.7	744.4	722.5
33283.0	55°	29429.7	22401.8	6204.7	1786.5	1015.9	823.2	775.0	735.6	705.0	683.1
34574.7	57.5°	29280.8	20899.9	4838.5	1436.2	910.8	766.3	731.3	705.0	670.0	634.9
35621.3	60°	28549.6	18890.0	3647.5	1195.4	814.5	705.0	683.1	661.2	613.0	560.5
36024.1	62.5°	27284.1	16363.5	2601.0	989.6	709.4	634.9	626.2	608.6	538.6	442.3
35428.6	65°	25348.7	13293.9	1751.5	823.2	608.6	556.1	560.5	529.8	437.9	328.4
33248.0	67.5°	22520.0	9720.9	1121.0	674.3	507.9	464.1	468.5	451.0	372.2	280.2
29114.4	70°	18916.3	6436.8	731.3	512.3	407.2	359.1	385.3	389.7	315.3	227.7
22344.9	72.5°	13867.6	3800.8	512.3	381.0	297.8	249.6	315.3	324.0	254.0	170.8
13442.8	75°	7903.7	1804.1	385.3	275.9	183.9	175.2	245.2	245.2	175.2	113.8
5819.4	77.5°	3319.1	753.1	271.5	179.5	105.1	100.7	166.4	153.3	87.6	52.5
1418.7	80°	959.0	337.2	144.5	87.6	43.8	39.4	65.7	48.2	21.9	8.8
538.6	82.5°	376.6	148.9	56.9	35.0	17.5	17.5	8.8	0.0	0.0	0.0
306.5	85°	223.3	61.3	26.3	13.1	4.4	0.0	0.0	0.0	0.0	0.0
65.7	87.5°	56.9	13.1	8.8	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°
7597.2
7544.6
7220.6
6296.7
5000.6
3901.5
3266.6
2824.3
2544.1
2342.6
2141.2
1935.4
1742.7
1576.4
1357.4
1173.5
994.0
897.6
840.7
796.9
757.5
718.1
678.7
630.5
551.7
433.5
319.7
267.1
218.9
162.0
105.1
52.5
8.8
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