

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: P957403

Luminaire Tested: **GALN-SB9D-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70835 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

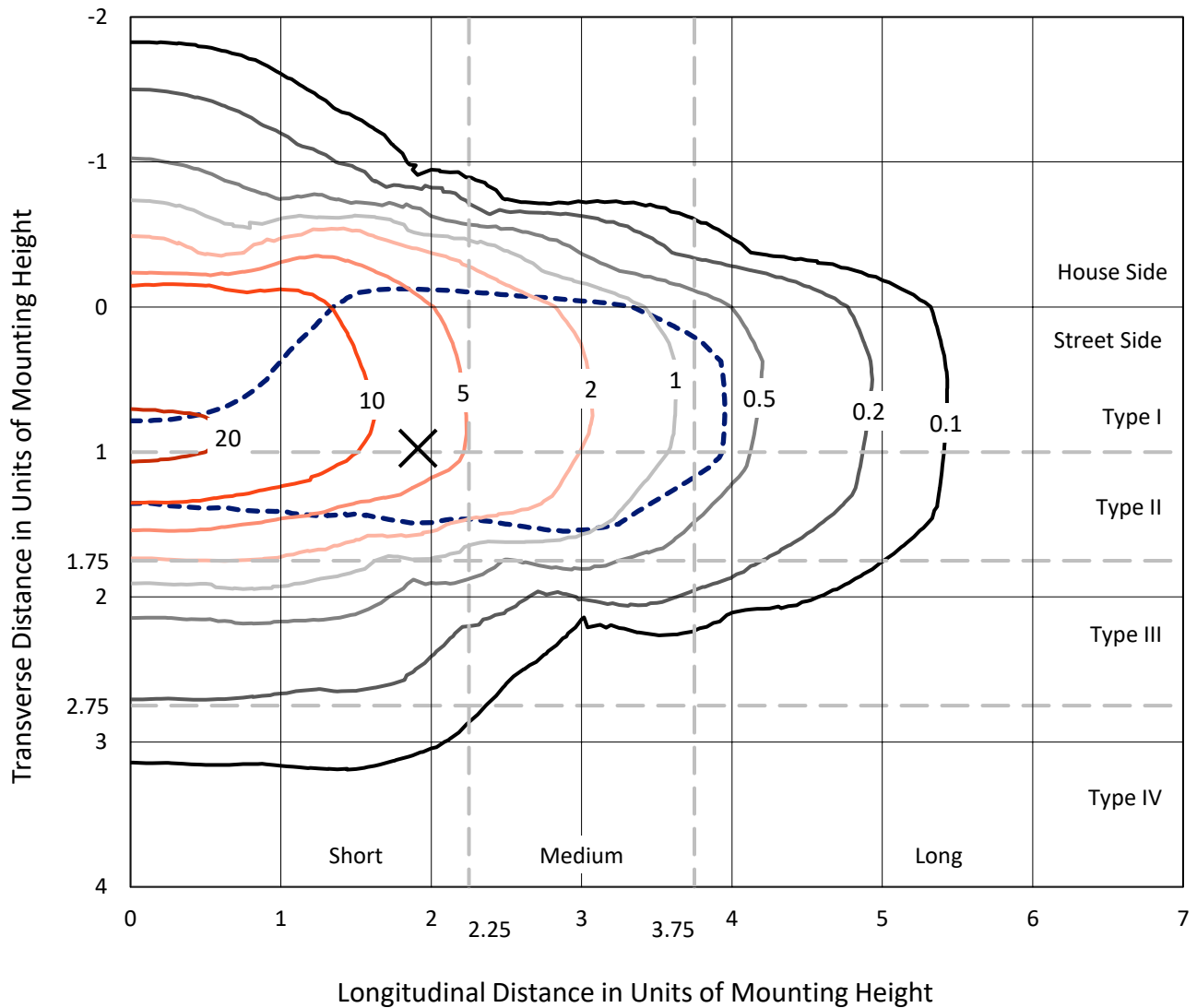
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957403
 CATALOG NUMBER: GALN-SB9D-735-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

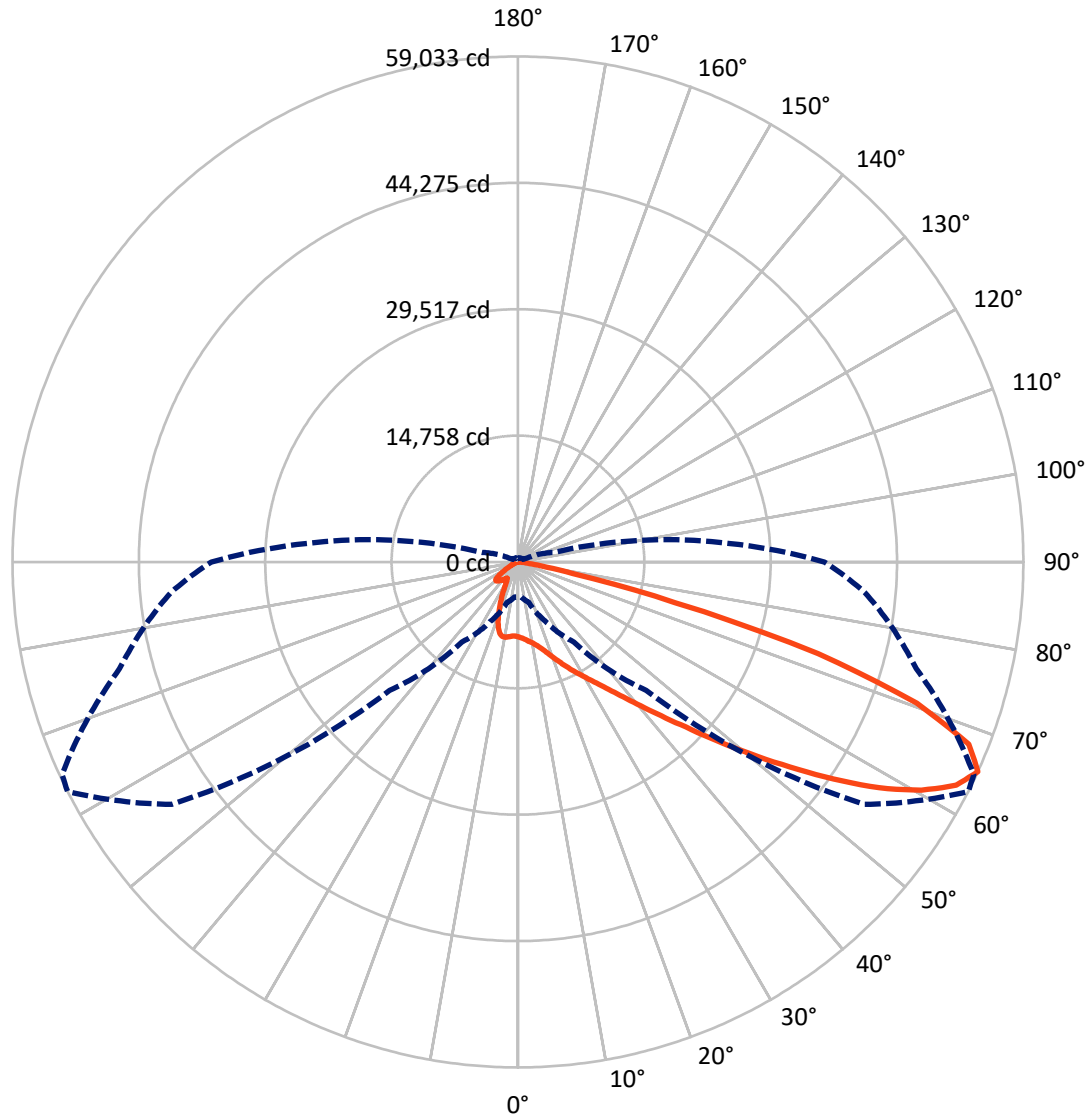
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type II - Short - N/A

REPORT NUMBER: P957403
CATALOG NUMBER: GALN-SB9D-735-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10412.2	0.0	10412.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	60422.8	0.0	60422.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	70835.0	0.0	70835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.7	1.2
10°-20°	2285.5	3.2
20°-30°	3979.6	5.6
30°-40°	7172.7	10.1
40°-50°	14225.8	20.1
50°-60°	19378.0	27.4
60°-70°	15467.3	21.8
70°-80°	6999.3	9.9
80°-90°	503.1	0.7
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°	70835.0	100.0
0°-180°	70835.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957403

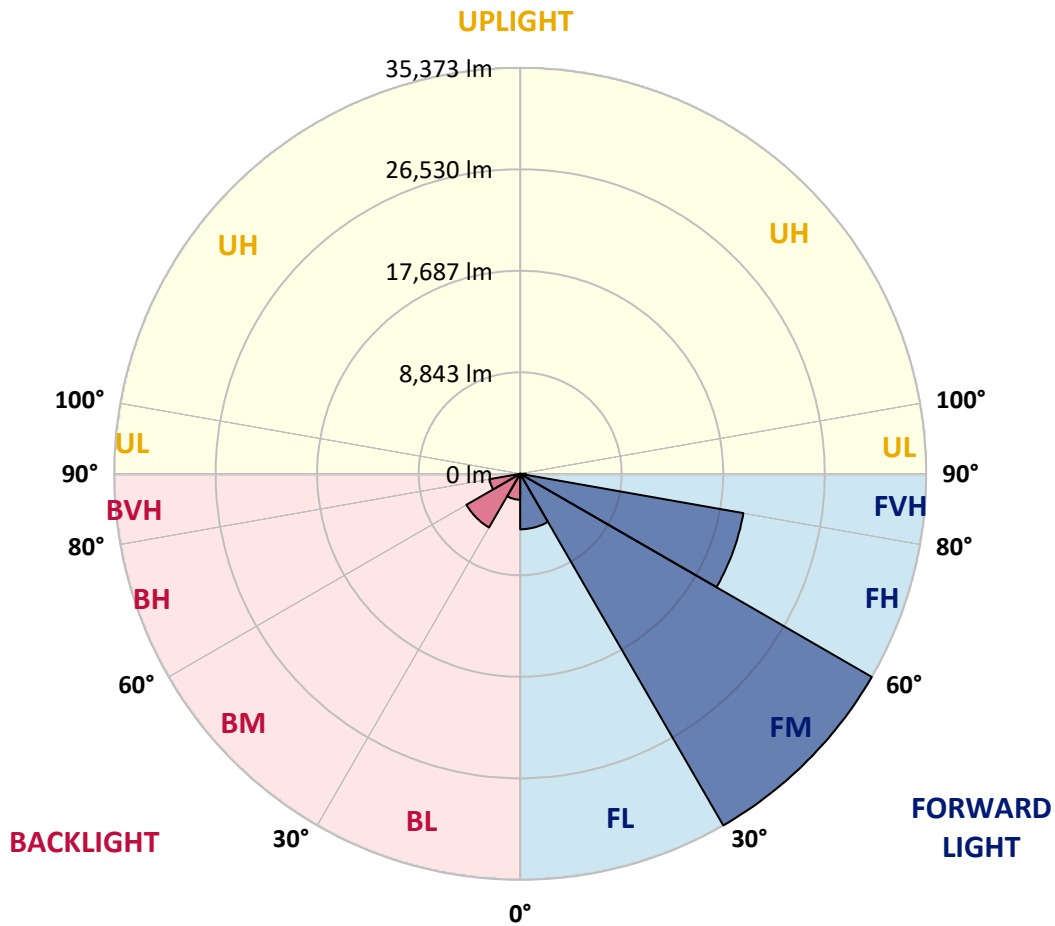
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4835.4	6.8			
FM (30°-60°)	35373.2	49.9			
FH (60°-80°)	19748.5	27.9			G5
FVH (80°-90°)	465.8	0.7			G3/500
BL (0°-30°)	2253.4	3.2	B3/2500		
BM (30°-60°)	5403.3	7.6	B4/8500		
BH (60°-80°)	2718.2	3.8	B4/5000		G4/5000
BVH (80°-90°)	37.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short



REPORT NUMBER: P957403
 CATALOG NUMBER: GALN-SB9D-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4
2.5°	8947.0	8922.7	8956.8	8942.2	8932.4	8912.9	8903.2	8893.4	8874.0	8859.3
5°	8971.4	8956.8	8990.9	9020.1	9049.4	9078.6	9093.2	9112.7	9093.2	9054.3
7.5°	8766.7	8757.0	8830.1	8917.8	9049.4	9161.5	9283.3	9351.5	9356.4	9341.8
10°	8752.1	8727.8	8800.9	8908.1	9078.6	9278.4	9492.8	9639.0	9658.5	9721.9
12.5°	8981.2	8956.8	9059.1	9176.1	9351.5	9561.1	9824.2	10028.9	10058.1	10145.8
15°	9366.1	9332.0	9449.0	9600.0	9824.2	10063.0	10340.8	10525.9	10550.3	10657.5
17.5°	9814.5	9780.4	9916.8	10077.6	10321.3	10647.8	10969.4	11174.1	11203.3	11271.5
20°	10389.5	10345.6	10452.8	10599.0	10857.3	11247.2	11632.1	11924.5	11919.7	11919.7
22.5°	11057.1	10988.9	11081.5	11198.4	11442.1	11914.8	12426.5	12772.4	12772.4	12636.0
25°	11773.5	11705.2	11807.6	11914.8	12129.2	12665.2	13264.6	13693.5	13713.0	13479.1
27.5°	12670.1	12582.4	12660.4	12787.1	12913.8	13459.6	14171.0	14668.1	14677.8	14317.2
30°	14395.2	14146.7	13903.0	13766.6	13825.0	14366.0	15126.2	15676.8	15725.6	15228.5
32.5°	17553.0	17504.2	16646.6	15525.8	14941.0	15340.6	16193.4	16856.1	16885.4	16247.0
35°	22460.2	22401.7	21022.6	18888.2	16982.8	16646.6	17489.6	18274.2	18254.7	17533.5
37.5°	28317.7	28264.1	26446.4	23590.8	20506.1	18620.2	19161.1	19984.7	20106.5	19161.1
40°	33322.4	33122.6	31972.5	29219.2	25184.3	21894.9	21539.2	22085.0	22211.7	21090.9
42.5°	37113.7	36943.1	36358.3	34638.1	30846.9	26738.8	24341.2	24550.8	24692.1	23347.1
45°	39077.5	39038.6	39272.5	39111.7	36616.6	32684.0	28346.9	27474.7	27528.3	25847.0
47.5°	39355.3	39335.8	40403.0	41913.7	41577.5	39389.4	33488.1	31119.7	30929.7	28668.6
50°	37717.9	37679.0	39725.7	42557.0	44891.2	45022.8	39326.1	35227.8	34808.7	31587.6
52.5°	32489.1	32479.3	35841.8	40554.1	46055.9	49954.4	45095.9	39740.3	39038.6	34677.1
55°	24999.1	25179.4	29034.0	34604.0	43931.2	52327.6	50276.0	44749.9	43672.9	37786.2
57.5°	17708.9	17972.1	21782.8	26743.7	37342.7	50924.1	53779.8	49769.2	48609.4	40885.5
60°	9512.3	9746.2	13561.9	19482.7	27781.7	45690.4	55626.7	54125.7	53029.3	43828.8
62.5°	5667.4	5745.4	7324.3	12577.5	18790.8	34906.2	54842.1	57444.3	56542.8	46299.5
65°	4069.1	4083.7	4878.0	7680.0	11408.0	21207.8	49340.3	59033.0	58755.2	48161.0
67.5°	3425.8	3416.1	3747.4	5102.2	7772.6	10623.4	37815.4	56786.5	57965.8	49340.3
70°	2938.5	2953.1	3343.0	3737.7	5842.9	6013.4	18800.5	49442.7	51957.2	49652.2
72.5°	2188.0	2236.8	2597.4	3406.3	4410.2	4137.3	6491.0	36660.5	41207.1	46782.0
75°	1544.8	1569.1	1827.4	2865.4	3289.4	3011.6	3313.7	18951.6	24779.8	35866.2
77.5°	1189.0	1232.9	1384.0	2002.9	3240.6	2114.9	2027.2	6559.2	10077.6	21665.9
80°	643.3	721.2	999.0	1447.3	2275.7	1496.0	1003.9	2612.0	3416.1	10131.2
82.5°	331.4	370.4	696.9	1042.8	1296.2	1306.0	497.1	1086.7	1408.3	3128.5
85°	131.6	160.8	467.8	575.0	667.6	643.3	224.2	438.6	506.8	867.4
87.5°	29.2	48.7	170.6	131.6	126.7	136.4	53.6	102.3	97.5	102.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957403
 CATALOG NUMBER: GALN-SB9D-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8742.4	0°	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4	8742.4
8800.9	2.5°	8796.0	8776.5	8722.9	8664.4	8596.2	8557.2	8532.8	8528.0	8493.8	8469.5
8995.8	5°	8942.2	8922.7	8820.3	8698.5	8566.9	8464.6	8367.1	8279.4	8152.7	8128.4
9278.4	7.5°	9234.6	9181.0	9015.3	8849.6	8601.1	8303.8	7943.2	7529.0	7158.6	7046.5
9653.7	10°	9595.2	9522.1	9312.5	9020.1	8469.5	7660.5	6788.3	5979.3	5336.1	5155.8
10097.1	12.5°	10004.5	9941.2	9663.4	9122.5	7918.8	6452.0	5116.8	4112.9	3489.2	3333.2
10569.8	15°	10491.8	10399.2	10014.3	8966.5	6934.4	4902.4	3513.5	2919.0	2694.8	2665.6
11110.7	17.5°	11008.4	10857.3	10326.1	8406.1	5609.0	3484.3	2714.3	2543.8	2446.3	2417.1
11656.5	20°	11481.1	11286.1	10511.3	7558.2	4190.9	2714.3	2431.7	2319.6	2231.9	2197.8
12202.3	22.5°	11953.8	11676.0	10511.3	6403.3	3143.2	2407.3	2231.9	2129.6	2027.2	1983.4
12787.1	25°	12445.9	12075.6	10326.1	5116.8	2529.1	2207.5	2041.8	1929.8	1842.0	1788.4
13342.6	27.5°	12923.5	12411.8	9902.2	3898.5	2251.4	2032.1	1866.4	1759.2	1676.4	1637.4
13946.9	30°	13376.7	12743.2	9307.7	2958.0	2071.1	1861.5	1705.6	1613.0	1530.2	1491.2
14731.4	32.5°	13990.7	13162.3	8674.2	2426.8	1915.1	1700.7	1559.4	1471.7	1398.6	1369.3
15749.9	35°	14843.5	13781.2	8128.4	2383.0	1783.6	1569.1	1427.8	1345.0	1271.9	1247.5
17065.7	37.5°	16052.1	14780.2	7840.9	2675.3	1676.4	1452.2	1320.6	1232.9	1164.7	1145.2
18737.1	40°	17543.2	16134.9	7996.8	2967.7	1603.3	1349.9	1223.2	1135.4	1077.0	1052.6
20657.2	42.5°	19312.2	17806.4	8859.3	3191.9	1554.5	1262.1	1130.6	1033.1	994.1	984.4
22835.4	45°	21344.3	19643.5	10179.9	3430.7	1476.6	1179.3	1038.0	964.9	935.6	930.8
25203.8	47.5°	23654.1	21661.0	11710.1	3727.9	1398.6	1101.3	964.9	916.1	891.8	882.0
27674.4	50°	25944.5	23693.1	13284.1	3893.6	1335.2	1028.2	906.4	867.4	847.9	843.0
30286.4	52.5°	28342.1	25783.7	14556.0	3737.7	1281.6	969.8	857.7	828.4	808.9	804.1
32693.8	55°	30627.6	27474.7	14775.3	3172.4	1174.4	911.3	804.1	789.4	765.1	765.1
35135.2	57.5°	32596.3	28322.6	13225.6	2329.4	1067.2	823.6	750.5	735.8	716.3	711.5
37337.8	60°	34404.2	28078.9	10209.2	1569.1	950.3	735.8	682.2	672.5	653.0	628.6
39253.0	62.5°	35422.7	27006.8	6983.2	1023.4	833.3	643.3	604.3	599.4	555.5	506.8
40671.1	65°	35807.7	24804.2	4356.6	745.6	696.9	550.7	521.4	511.7	448.3	394.7
41475.1	67.5°	35471.4	21178.6	2197.8	589.6	550.7	458.1	428.8	428.8	385.0	336.2
41426.4	70°	34126.5	15876.6	925.9	472.7	424.0	350.9	350.9	370.4	326.5	272.9
39277.3	72.5°	31207.5	10681.9	492.2	360.6	316.8	248.5	287.5	302.1	258.3	204.7
32148.0	75°	24809.1	6515.4	341.1	268.0	199.8	175.4	219.3	229.0	175.4	136.4
22041.1	77.5°	16968.2	3742.6	229.0	170.6	126.7	102.3	151.1	141.3	92.6	63.4
8498.7	80°	7451.0	1559.4	131.6	78.0	48.7	39.0	53.6	39.0	29.2	19.5
1164.7	82.5°	872.3	365.5	48.7	29.2	19.5	9.7	4.9	0.0	0.0	0.0
355.7	85°	180.3	43.9	24.4	9.7	4.9	0.0	0.0	0.0	0.0	0.0
63.4	87.5°	34.1	9.7	4.9	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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<u>180°</u>
8742.4
8493.8
8118.6
6992.9
5087.5
3289.4
2636.4
2402.4
2178.3
1959.0
1768.9
1637.4
1496.0
1369.3
1247.5
1140.3
1047.7
984.4
925.9
882.0
843.0
804.1
760.2
706.6
623.8
497.1
389.8
331.4
268.0
204.7
131.6
68.2
19.5
0.0
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