

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: P956344

Luminaire Tested: **GALN-SB9A-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42965 lumens
Efficiency: N/A
Efficacy: 168.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

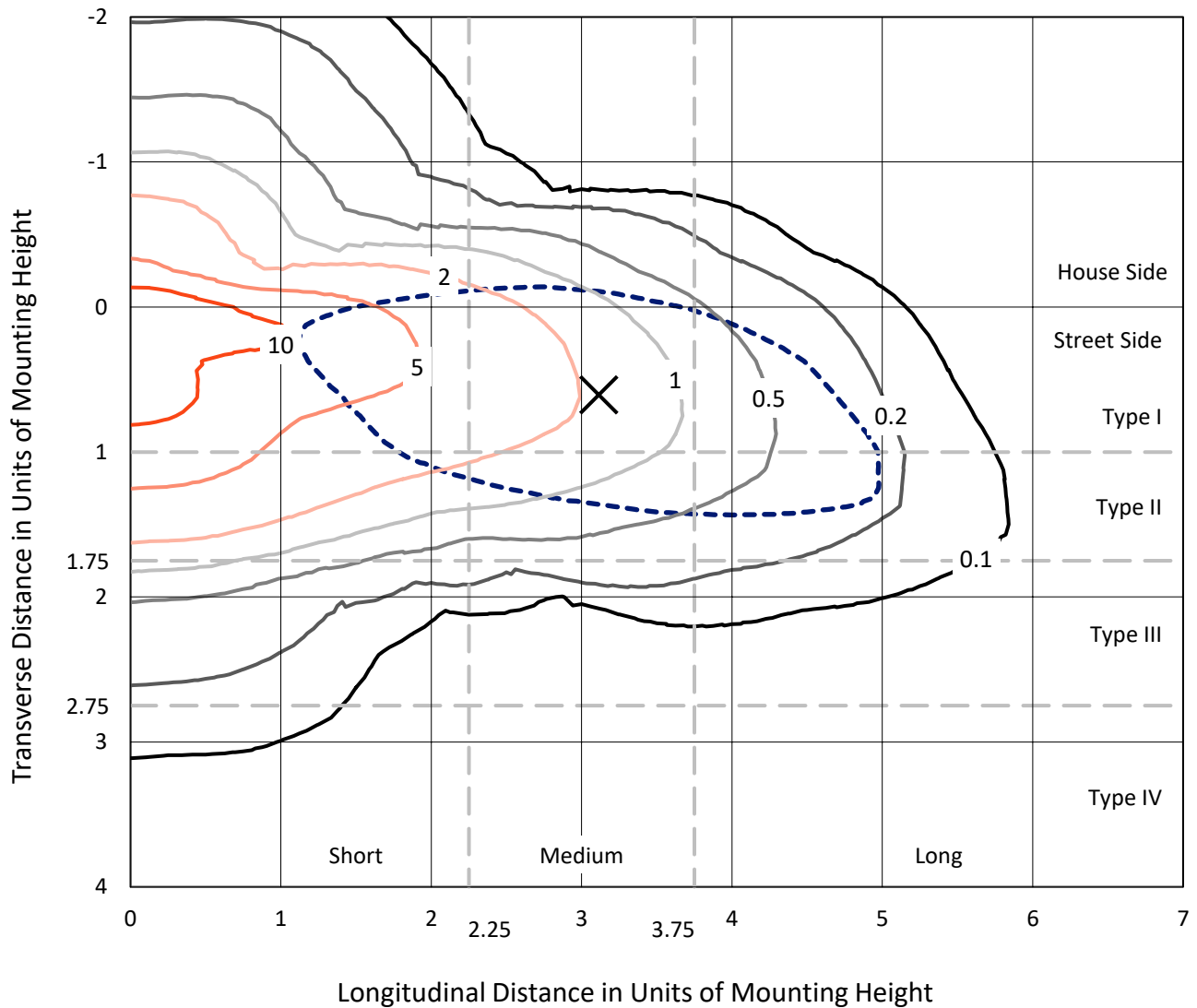
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956344
 CATALOG NUMBER: GALN-SB9A-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

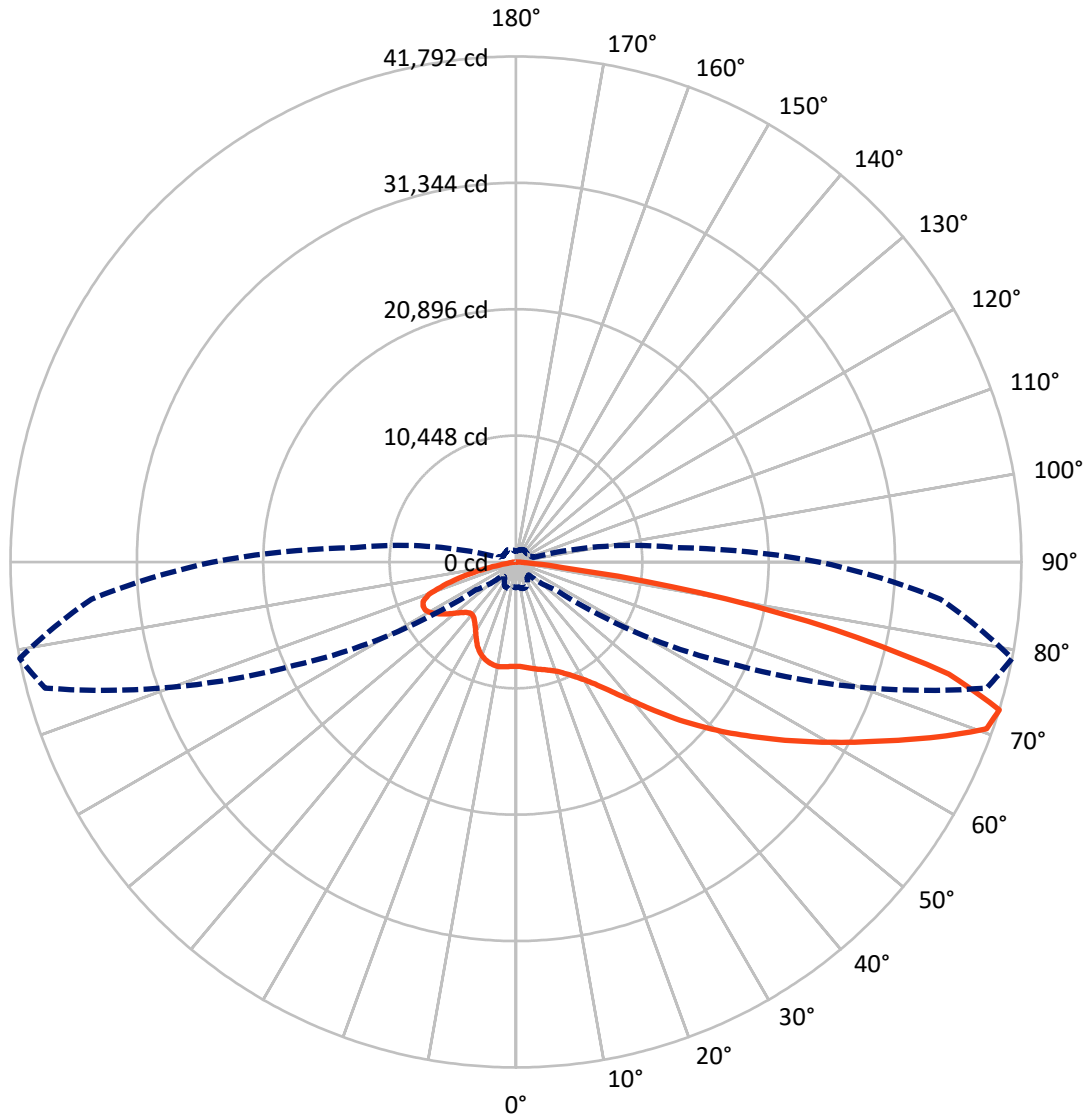
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P956344
CATALOG NUMBER: GALN-SB9A-740-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P956344

CATALOG NUMBER: GALN-SB9A-740-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9454.7	0.0	9454.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	33510.3	0.0	33510.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	42965.0	0.0	42965.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.9	1.8
10°-20°	2046.9	4.8
20°-30°	3302.8	7.7
30°-40°	4957.0	11.5
40°-50°	7031.8	16.4
50°-60°	8880.2	20.7
60°-70°	9019.1	21.0
70°-80°	6146.9	14.3
80°-90°	797.5	1.9
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°	42965.0	100.0
0°-180°	42965.0	100.0



REPORT NUMBER: P956344

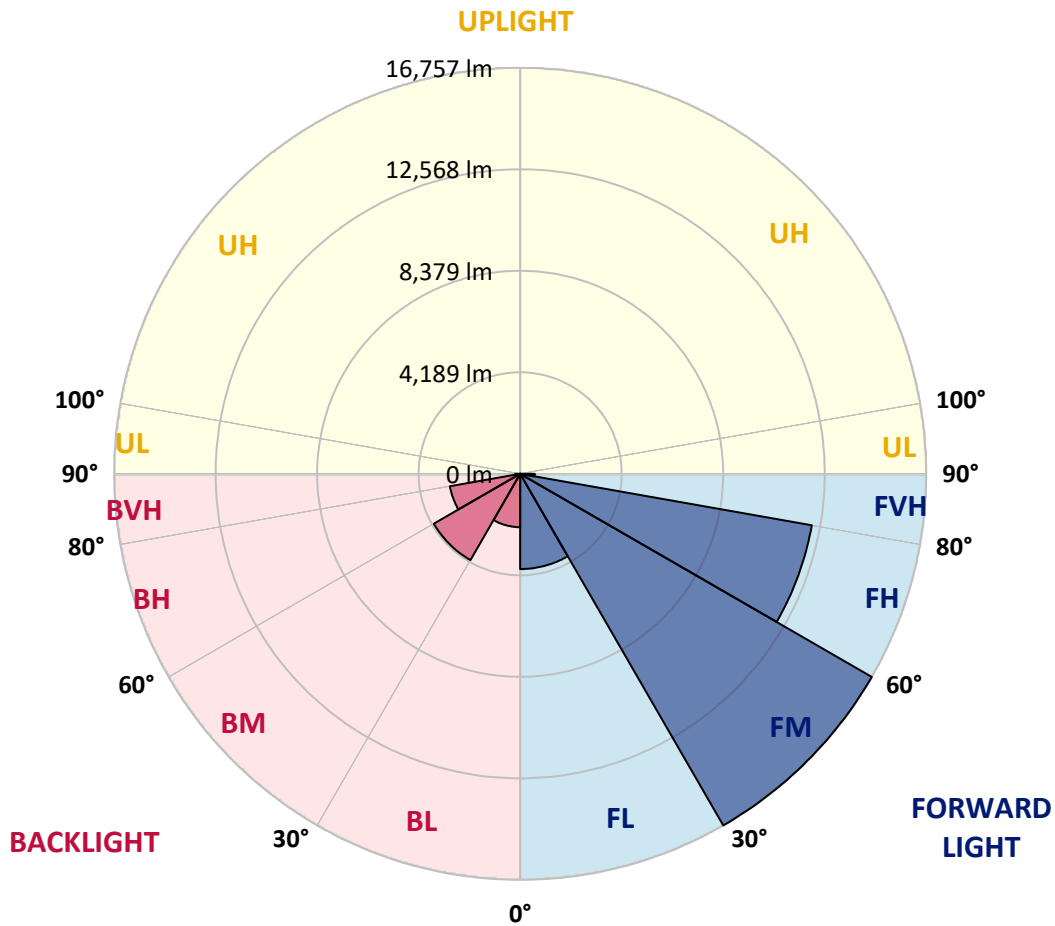
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3930.3	9.1			
FM (30°-60°)	16757.2	39.0			
FH (60°-80°)	12222.1	28.4			G5
FVH (80°-90°)	600.8	1.4			G4/750
BL (0°-30°)	2202.3	5.1	B3/2500		
BM (30°-60°)	4111.8	9.6	B3/5000		
BH (60°-80°)	2943.9	6.9	B4/5000		G4/5000
BVH (80°-90°)	196.7	0.5			G2/225
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 Medium



REPORT NUMBER: P956344

CATALOG NUMBER: GALN-SB9A-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8
2.5°	8629.4	8588.5	8613.5	8604.4	8615.7	8629.4	8633.9	8640.7	8663.5	8661.2
5°	8611.2	8570.3	8604.4	8593.0	8622.5	8654.4	8681.6	8706.6	8743.0	8758.9
7.5°	8572.5	8545.3	8579.4	8613.5	8668.0	8715.7	8754.4	8811.2	8863.4	8872.5
10°	8347.5	8327.1	8406.6	8495.3	8645.3	8774.8	8858.9	8924.8	8981.6	8990.7
12.5°	8113.5	8088.5	8177.1	8297.5	8540.7	8774.8	8952.1	9038.4	9088.4	9118.0
15°	8074.8	8054.4	8104.4	8208.9	8411.2	8713.4	9015.7	9174.8	9218.0	9252.1
17.5°	8261.2	8222.6	8243.0	8279.4	8397.5	8656.6	9065.7	9329.3	9395.3	9431.6
20°	8693.0	8638.5	8606.6	8533.9	8513.5	8665.7	9061.2	9515.7	9602.1	9647.5
22.5°	9268.0	9231.6	9163.4	8979.4	8779.4	8777.1	9147.5	9754.3	9915.7	9958.9
25°	9963.4	9908.9	9822.5	9572.5	9188.4	8997.5	9293.0	10058.9	10329.3	10340.7
27.5°	10763.4	10681.6	10563.4	10233.9	9715.7	9343.0	9515.7	10408.9	10804.3	10799.8
30°	11606.6	11524.8	11399.8	10999.8	10347.5	9808.9	9824.8	10786.1	11367.9	11342.9
32.5°	12222.5	12161.1	12136.1	11827.0	11074.8	10358.9	10179.3	11204.3	12063.4	12040.7
35°	12695.2	12615.6	12645.2	12488.4	11867.9	10974.8	10613.4	11702.0	12908.8	12906.5
37.5°	13163.4	13092.9	13117.9	13013.4	12602.0	11756.6	11142.9	12311.1	13956.5	14006.5
40°	13590.6	13515.6	13615.6	13517.9	13172.4	12588.4	11745.2	12999.7	15170.1	15265.6
42.5°	13847.4	13788.3	13954.2	13956.5	13667.9	13290.6	12406.6	13758.8	16574.6	16788.3
45°	13936.1	13915.6	14165.6	14217.9	14106.5	13697.4	13002.0	14586.1	18088.2	18470.1
47.5°	13840.6	13802.0	14147.4	14340.6	14429.2	13888.3	13495.2	15481.5	19633.7	20192.7
50°	13358.8	13283.8	13797.4	14204.2	14520.1	14013.3	13992.9	16515.6	21390.5	22001.8
52.5°	12492.9	12436.1	13020.2	13727.0	14320.1	14074.7	14552.0	17645.1	23058.6	23849.5
55°	11386.1	11311.1	11954.3	12877.0	13822.4	14054.2	15111.0	18908.7	25026.7	25829.0
57.5°	9631.6	9481.6	10295.2	11386.1	13011.1	14029.2	15692.8	20165.5	27026.7	27988.0
60°	7072.6	6849.9	7847.6	9140.7	11424.8	13786.1	16413.3	21574.5	29426.6	30292.5
62.5°	4118.1	3988.6	4640.8	5847.6	8611.2	12354.3	16817.8	23213.1	31785.7	32694.8
65°	3197.7	3161.3	3218.1	3311.3	4793.1	9249.8	15570.1	24810.8	34785.6	35422.0
67.5°	2924.9	2897.7	2922.7	2747.7	2431.8	5152.2	12317.9	25215.4	37999.2	38385.5
70°	2599.9	2568.1	2649.9	2499.9	1913.6	2343.1	7958.9	23747.2	40555.9	41280.9
72.5°	2118.1	2081.8	2272.7	2204.5	1611.3	1504.5	3997.6	20258.7	40287.8	41792.3
75°	1627.2	1606.8	1834.1	1890.9	1313.6	1184.1	1918.1	15058.8	35453.8	36969.7
77.5°	1263.6	1247.7	1363.6	1570.4	1059.1	918.2	1179.5	9552.1	26717.6	26983.5
80°	947.7	902.3	1009.1	1215.9	825.0	670.4	800.0	5570.3	16888.3	15308.8
82.5°	593.2	570.4	659.1	811.3	581.8	461.4	520.4	3077.2	6768.0	3986.3
85°	338.6	329.5	359.1	463.6	315.9	265.9	297.7	1359.1	1236.3	850.0
87.5°	136.4	131.8	163.6	206.8	115.9	97.7	104.5	327.3	272.7	252.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956344
 CATALOG NUMBER: GALN-SB9A-740-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8624.8	0°	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8	8624.8
8658.9	2.5°	8649.8	8649.8	8618.0	8568.0	8511.2	8474.8	8415.7	8399.8	8338.5	8320.3
8736.2	5°	8754.4	8736.2	8638.5	8497.5	8304.4	8127.1	7931.6	7808.9	7636.2	7574.8
8888.4	7.5°	8886.2	8836.2	8668.0	8358.9	7954.4	7556.7	7143.0	6829.4	6529.4	6422.6
9013.4	10°	9006.6	8936.2	8649.8	8108.9	7408.9	6720.3	6061.2	5599.9	5249.9	5106.7
9152.1	12.5°	9127.1	8997.5	8529.4	7693.0	6633.9	5699.9	4997.6	4638.5	4422.6	4249.9
9265.7	15°	9240.7	9058.9	8343.0	7136.2	5784.0	4836.3	4318.1	4031.7	3859.0	3745.4
9431.6	17.5°	9372.5	9111.2	8063.5	6429.4	4974.9	4238.5	3815.8	3643.1	3609.0	3595.4
9658.9	20°	9556.6	9158.9	7695.3	5638.5	4379.5	3761.3	3543.1	3527.2	3524.9	3518.1
9931.6	22.5°	9754.3	9215.7	7208.9	4920.3	3872.6	3463.6	3424.9	3393.1	3372.7	3370.4
10261.1	25°	9988.4	9233.9	6599.9	4331.7	3440.8	3322.7	3277.2	3229.5	3215.8	3215.8
10636.1	27.5°	10215.7	9172.5	5890.8	3820.4	3197.7	3193.1	3134.0	3118.1	3115.8	3122.7
11063.4	30°	10443.0	9056.6	5186.3	3347.7	3056.8	3056.8	3036.3	3047.7	3056.8	3079.5
11649.8	32.5°	10749.8	8933.9	4597.6	2997.7	2934.0	2911.3	2931.8	2954.5	2963.6	2993.1
12420.2	35°	11199.8	8847.5	4129.5	2806.8	2806.8	2777.2	2788.6	2784.0	2763.6	2749.9
13352.0	37.5°	11795.2	8843.0	3743.1	2718.1	2699.9	2695.4	2697.7	2668.1	2588.6	2493.1
14479.2	40°	12511.1	8965.7	3445.4	2656.8	2643.1	2670.4	2656.8	2577.2	2359.0	2193.1
15865.6	42.5°	13472.4	9315.7	3254.5	2581.8	2622.7	2656.8	2602.2	2327.2	2179.5	2068.1
17445.1	45°	14604.2	9883.9	3156.8	2502.2	2584.0	2624.9	2361.3	2240.9	2122.7	1988.6
19167.8	47.5°	15886.0	10599.8	3134.0	2427.2	2497.7	2522.7	2259.0	2204.5	2070.4	1925.0
20899.6	50°	17281.4	11447.5	3195.4	2338.6	2372.7	2286.3	2225.0	2175.0	2036.3	1893.1
22674.5	52.5°	18724.6	12381.6	3318.1	2218.1	2247.7	2152.2	2211.3	2168.1	2015.9	1822.7
24508.6	55°	20142.8	13322.4	3436.3	2077.2	2120.4	2031.8	2172.7	2140.9	1922.7	1704.5
26465.3	57.5°	21583.6	14258.8	3552.2	1952.2	1997.7	1915.9	2111.3	2068.1	1818.1	1595.4
28601.7	60°	23081.3	15167.9	3606.7	1831.8	1863.6	1809.1	2018.1	1943.1	1700.0	1484.1
30701.6	62.5°	24483.6	15924.7	3518.1	1711.3	1731.8	1709.1	1895.4	1795.4	1581.8	1359.1
32890.2	65°	25890.4	16374.6	3245.4	1593.1	1597.7	1586.3	1722.7	1636.3	1443.2	1250.0
34806.1	67.5°	27165.3	16626.9	2811.3	1465.9	1454.5	1450.0	1561.3	1463.6	1309.1	1140.9
36262.9	70°	27435.8	15986.0	2147.7	1315.9	1315.9	1304.5	1384.1	1284.1	1161.3	1025.0
35219.7	72.5°	25058.6	13447.4	1525.0	1145.4	1163.6	1140.9	1206.8	1122.7	1011.3	920.4
30353.9	75°	20206.4	9861.2	1109.1	970.4	1002.3	963.6	1025.0	965.9	870.4	868.2
20917.7	77.5°	13883.8	6097.6	804.5	800.0	822.7	772.7	843.2	811.3	725.0	686.3
9104.4	80°	5924.9	2431.8	586.4	618.2	618.2	572.7	654.5	663.6	588.6	570.4
1756.8	82.5°	1179.5	690.9	411.4	425.0	400.0	386.4	463.6	513.6	709.1	788.6
529.5	85°	354.5	254.5	247.7	231.8	204.5	206.8	272.7	515.9	636.4	363.6
175.0	87.5°	97.7	63.6	65.9	52.3	43.2	56.8	93.2	390.9	213.6	90.9
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>
8624.8
8349.8
7620.3
6436.2
5138.5
4306.7
3765.8
3604.5
3540.8
3395.4
3229.5
3140.8
3095.4
3018.1
2781.8
2495.4
2188.6
2063.6
1979.5
1913.6
1877.2
1809.1
1693.1
1590.9
1477.2
1356.8
1236.3
1127.2
1020.4
893.2
781.8
643.2
570.4
790.9
313.6
77.3
0.0

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