

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: P944758

Luminaire Tested: **GALN-SB9D-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65092 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

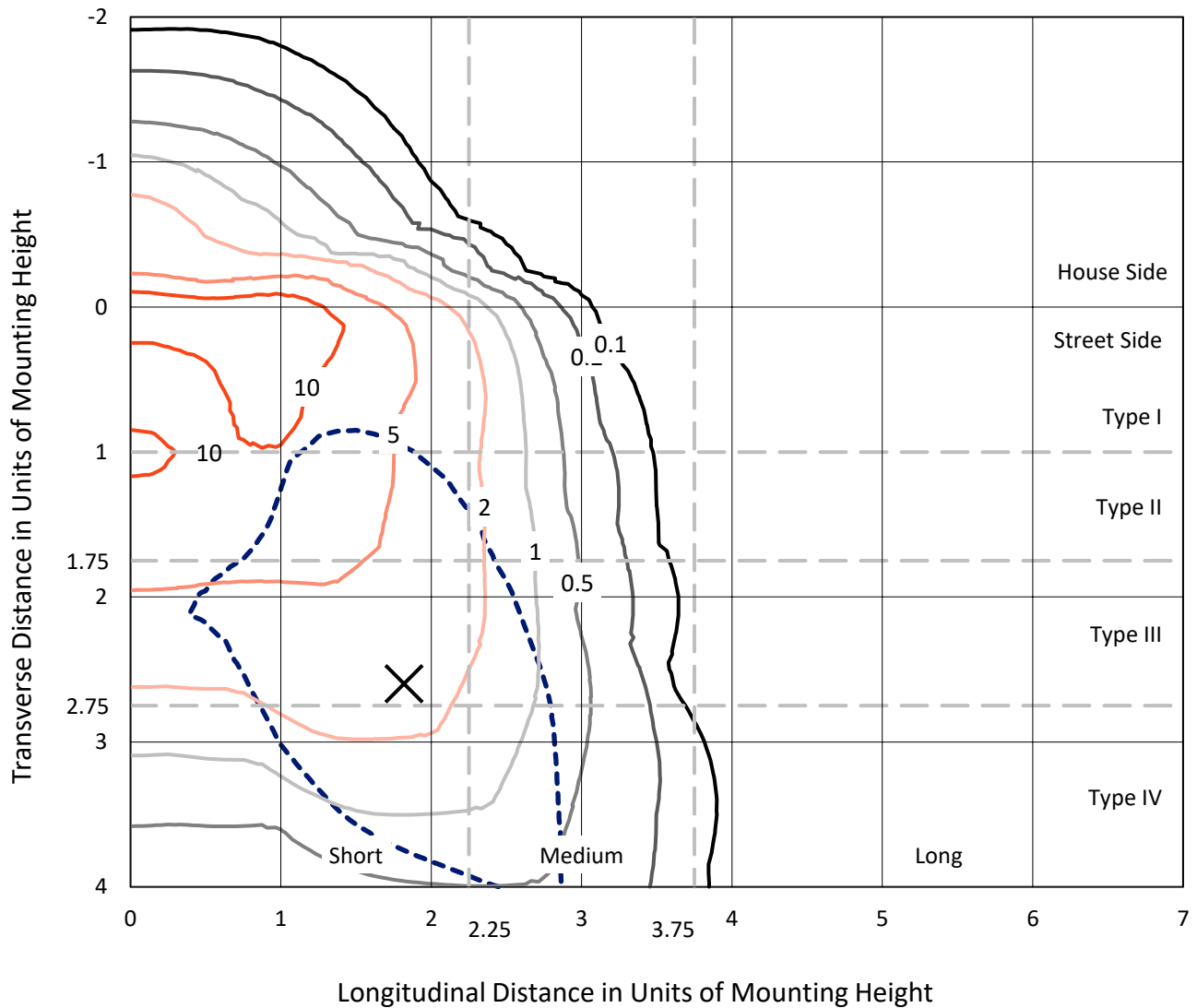
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

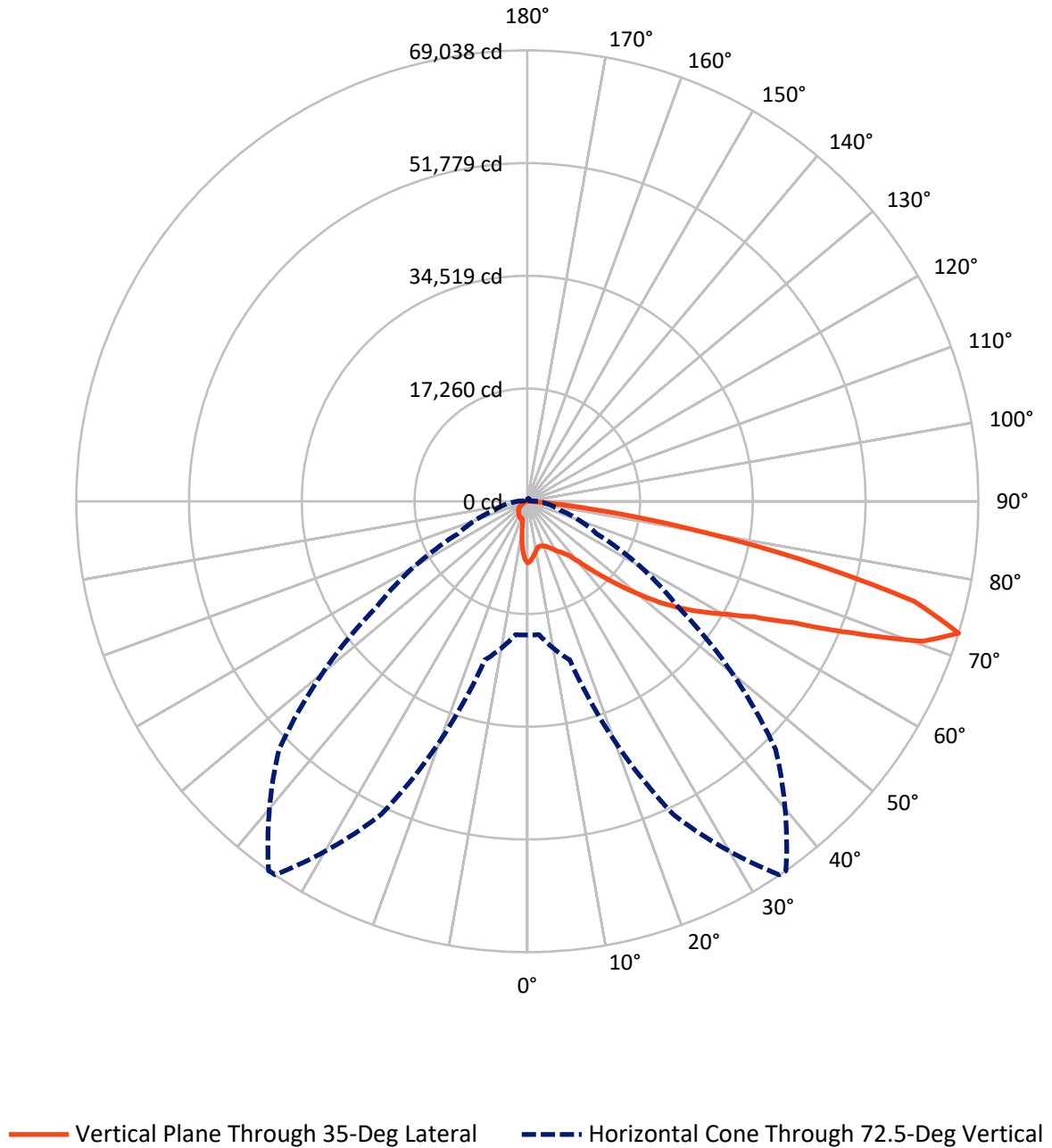
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7325.8	0.0	7325.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	57766.2	0.0	57766.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	65092.0	0.0	65092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.2	1.2
10°-20°	1813.5	2.8
20°-30°	2946.1	4.5
30°-40°	4915.5	7.6
40°-50°	9300.2	14.3
50°-60°	14777.9	22.7
60°-70°	18281.4	28.1
70°-80°	11363.8	17.5
80°-90°	918.4	1.4
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°	65092.0	100.0
0°-180°	65092.0	100.0

Coefficient of Utilization



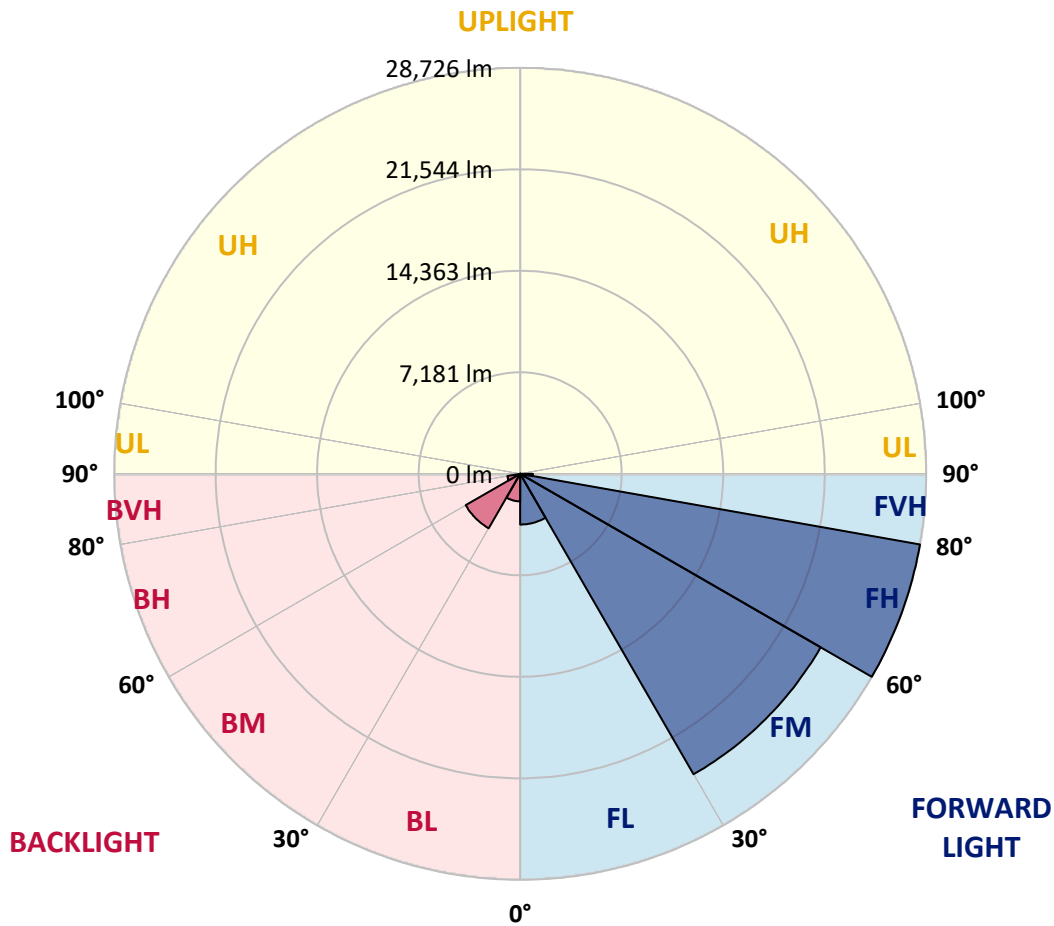
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3588.2	5.5			
FM (30°-60°)	24546.2	37.7			
FH (60°-80°)	28725.9	44.1			G5
FVH (80°-90°)	905.9	1.4			G5
BL (0°-30°)	1946.6	3.0	B3/2500		
BM (30°-60°)	4447.4	6.8	B3/5000		
BH (60°-80°)	919.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	12.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9014.3	9090.6	9104.9	9128.8	9128.8	9157.4	9205.1	9271.9	9381.5	9438.8
5°	8308.4	8365.7	8437.2	8494.4	8604.1	8618.4	8804.4	8985.7	9238.5	9429.2
7.5°	7597.8	7664.5	7759.9	7898.2	8041.3	8084.3	8365.7	8670.9	9071.5	9429.2
10°	7097.0	7101.7	7187.6	7325.9	7554.8	7607.3	7950.7	8384.7	8885.5	9372.0
12.5°	6815.6	6849.0	6887.1	6992.0	7211.4	7244.8	7612.1	8122.4	8699.5	9338.6
15°	6815.6	6839.4	6863.3	6915.7	7092.2	7120.8	7445.1	7955.5	8604.1	9352.9
17.5°	6887.1	6925.3	6906.2	6968.2	7154.2	7173.3	7459.5	7907.8	8599.4	9443.6
20°	7058.8	7087.4	7049.3	7087.4	7273.4	7311.6	7607.3	7998.4	8680.4	9600.9
22.5°	7330.7	7345.0	7254.4	7283.0	7473.8	7521.5	7864.9	8256.0	8876.0	9853.7
25°	7674.1	7702.7	7564.4	7597.8	7779.0	7836.2	8232.1	8642.3	9186.0	10201.9
27.5°	8069.9	8084.3	7965.0	7960.2	8194.0	8275.0	8675.7	9119.2	9600.9	10640.7
30°	8523.0	8566.0	8451.5	8432.4	8728.1	8794.9	9190.8	9705.9	10211.4	11298.9
32.5°	8880.8	8914.1	8847.4	8895.1	9195.5	9248.0	9815.6	10535.8	11170.1	12233.7
35°	9395.9	9414.9	9262.3	9348.2	9691.6	9825.1	10669.3	11699.5	12376.8	13407.0
37.5°	11260.7	11260.7	10612.1	10187.6	10516.7	10635.9	11837.8	13163.7	13864.9	14980.9
40°	13841.0	13798.1	12849.0	11980.9	11938.0	12171.7	13502.4	15009.5	15786.9	16869.6
42.5°	16593.0	16526.2	15233.7	14375.2	14232.1	14313.2	15424.5	17284.6	18076.3	19173.3
45°	19035.0	19015.9	17833.1	16678.8	16421.3	16678.8	17823.5	19945.9	20513.5	21667.7
47.5°	21081.1	21081.1	20217.8	19464.2	19330.7	19483.3	21071.5	22898.2	22845.8	24324.3
50°	23437.2	23418.1	22597.8	22273.4	22411.7	22626.4	24810.8	26007.9	25259.1	26933.2
52.5°	25087.4	25201.9	24920.5	24868.0	25573.9	25945.9	28607.3	29050.8	27419.7	29408.6
55°	26394.3	26527.8	26852.1	27219.4	28578.7	29065.2	32284.5	31936.4	29227.3	31554.8
57.5°	28244.8	28054.0	28554.8	29279.8	31478.5	32065.2	35847.3	34659.7	30682.0	33295.7
60°	30491.2	30519.8	30605.7	31521.4	34373.6	35127.2	39357.7	37235.3	31616.8	34364.0
62.5°	33190.7	33233.7	33410.1	34817.1	38260.7	38971.3	43096.9	39343.4	32046.1	34063.6
65°	33004.7	33186.0	35155.8	39968.2	44170.1	44871.2	47461.0	40821.9	31397.4	31316.3
67.5°	30066.7	30362.5	33658.2	46120.8	53079.4	53861.6	52736.0	41112.8	28597.7	24352.9
70°	26213.0	26317.9	30281.4	51653.4	63395.8	64187.5	57457.8	37912.5	21701.1	13583.5
72.5°	20470.6	20494.4	25144.6	52936.4	68995.2	69038.1	53751.9	28144.6	11670.9	5217.8
75°	14623.2	14480.1	16841.0	42930.0	60701.1	61187.5	40297.3	13201.9	4459.5	2465.8
77.5°	7841.0	7998.4	9529.4	25459.4	41933.2	42763.1	21987.3	3806.0	2270.3	1678.9
80°	2422.9	2556.4	3906.2	11656.6	23752.0	24252.8	8151.0	1693.2	1583.5	1197.1
82.5°	763.1	791.7	1821.9	4898.2	9858.5	10087.4	2360.9	958.7	1082.7	791.7
85°	219.4	224.2	810.8	1826.7	2437.2	2484.9	663.0	372.0	620.0	491.3
87.5°	23.8	76.3	305.2	305.2	214.6	209.9	71.5	81.1	176.5	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944758
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9434.0	0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
9476.9	2.5°	9453.1	9457.9	9395.9	9290.9	9176.5	9081.1	8961.8	8866.4	8799.7	8780.6
9562.8	5°	9519.9	9486.5	9310.0	8990.5	8608.9	8279.8	7912.6	7621.6	7430.8	7349.8
9653.4	7.5°	9620.0	9524.6	9138.3	8508.7	7779.0	7130.4	6472.2	5961.8	5637.5	5475.4
9739.3	10°	9705.9	9515.1	8852.1	7812.4	6696.3	5713.8	4826.7	4211.4	3868.0	3705.9
9839.4	12.5°	9787.0	9510.3	8480.1	6987.3	5475.4	4273.4	3448.3	3143.1	3047.7	3014.3
10001.6	15°	9939.6	9524.6	8012.7	6042.9	4259.1	3228.9	2928.5	2923.7	2942.8	2933.2
10249.6	17.5°	10149.4	9538.9	7483.3	5041.3	3286.2	2847.4	2833.1	2876.0	2904.6	2890.3
10559.6	20°	10421.3	9596.2	6920.5	4049.3	2823.5	2752.0	2785.4	2823.5	2847.4	2823.5
10974.6	22.5°	10802.9	9696.3	6305.2	3252.8	2675.7	2694.8	2723.4	2766.3	2790.1	2756.8
11504.0	25°	11270.3	9853.7	5699.5	2828.3	2604.1	2628.0	2670.9	2718.6	2747.2	2713.8
12171.7	27.5°	11876.0	10106.5	5141.5	2732.9	2532.6	2546.9	2608.9	2680.4	2718.6	2675.7
13120.8	30°	12753.6	10521.5	4659.8	2775.8	2489.7	2456.3	2542.1	2642.3	2685.2	2647.1
14413.3	32.5°	13917.3	11108.1	4364.1	2842.6	2470.6	2351.3	2432.4	2561.2	2632.7	2608.9
16101.7	35°	15443.5	12000.0	4249.6	2918.9	2456.3	2241.7	2298.9	2437.2	2561.2	2585.1
18228.9	37.5°	17294.1	13240.1	4283.0	2952.3	2413.4	2151.0	2179.6	2298.9	2461.0	2537.4
20623.2	40°	19397.4	14685.2	4473.8	2918.9	2365.7	2074.7	2079.5	2170.1	2313.2	2427.7
23198.7	42.5°	21567.5	16373.6	4826.7	2794.9	2322.7	2007.9	1993.6	2055.6	2151.0	2232.1
25769.5	45°	23632.7	18109.7	5174.9	2623.2	2270.3	1941.2	1907.8	1931.6	1950.7	1984.1
28273.4	47.5°	25435.6	19330.7	5074.7	2465.8	2198.7	1864.9	1807.6	1798.1	1740.9	1736.1
30510.3	50°	26680.4	19597.8	4507.1	2308.4	2093.8	1779.0	1688.4	1631.2	1531.0	1483.3
32184.4	52.5°	27076.3	18543.7	3682.0	2151.0	1922.1	1664.5	1535.8	1445.1	1321.1	1278.2
33147.8	55°	26551.6	16478.5	2942.8	1960.3	1683.6	1511.9	1368.8	1249.6	1149.4	1097.0
33252.8	57.5°	25268.7	13850.5	2327.5	1736.1	1430.8	1340.2	1197.1	1077.9	992.0	939.6
32089.0	60°	23141.5	10998.4	1841.0	1469.0	1221.0	1154.2	1006.4	930.0	853.7	791.7
29084.2	62.5°	19912.5	7850.5	1445.1	1163.8	1020.7	944.4	858.5	801.3	710.7	624.8
23680.4	65°	15538.9	4802.9	1116.1	853.7	820.3	782.2	729.7	677.3	567.6	481.7
15448.3	67.5°	9801.3	2275.0	796.5	643.9	648.6	629.6	605.7	562.8	481.7	405.4
6920.5	70°	4316.4	1101.7	524.6	491.3	481.7	481.7	500.8	486.5	410.2	338.6
2403.8	72.5°	1469.0	591.4	391.1	372.0	348.2	343.4	419.7	405.4	329.1	262.3
1197.1	75°	767.9	395.9	286.2	267.1	209.9	252.8	333.9	314.8	233.7	171.7
791.7	77.5°	500.8	281.4	195.5	171.7	119.2	166.9	248.0	219.4	138.3	85.9
519.9	80°	314.8	186.0	114.5	81.1	57.2	90.6	133.5	95.4	52.5	19.1
305.2	82.5°	166.9	95.4	42.9	28.6	23.8	28.6	33.4	23.8	9.5	0.0
157.4	85°	66.8	33.4	14.3	9.5	4.8	0.0	9.5	4.8	0.0	0.0
28.6	87.5°	23.8	4.8	0.0	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>
9434.0
8814.0
7378.4
5499.2
3710.6
3004.8
2928.5
2885.5
2818.8
2752.0
2709.1
2675.7
2642.3
2608.9
2585.1
2556.4
2465.8
2265.5
2003.2
1731.3
1488.1
1273.4
1097.0
930.0
777.4
610.5
467.4
395.9
324.3
248.0
157.4
76.3
14.3
0.0
0.0
0.0
0.0

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