

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: P944028

Luminaire Tested: **GALN-SB8D-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944028
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-SB8D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 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: 65913 lumens
Efficiency: N/A
Efficacy: 112.7 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

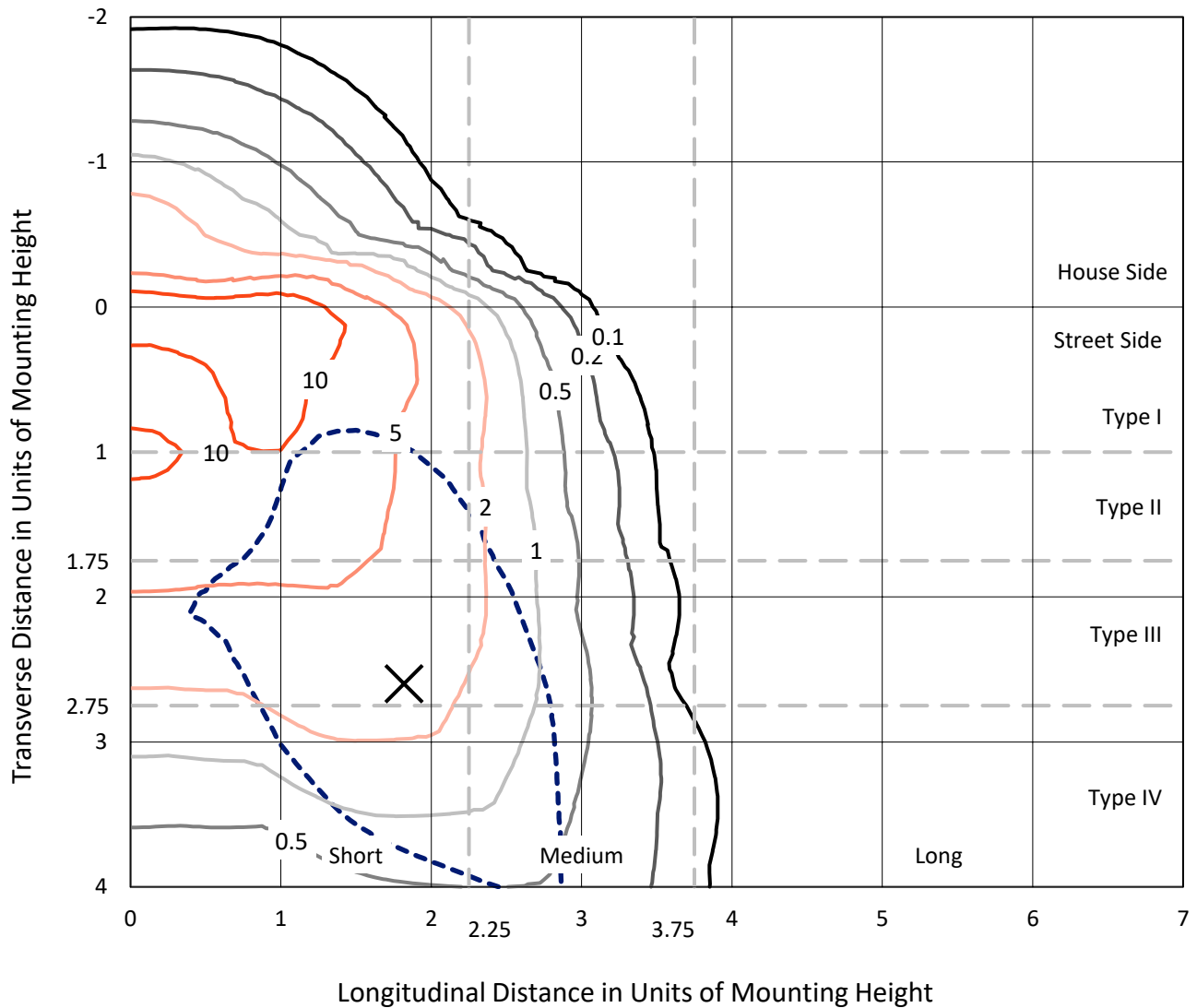
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

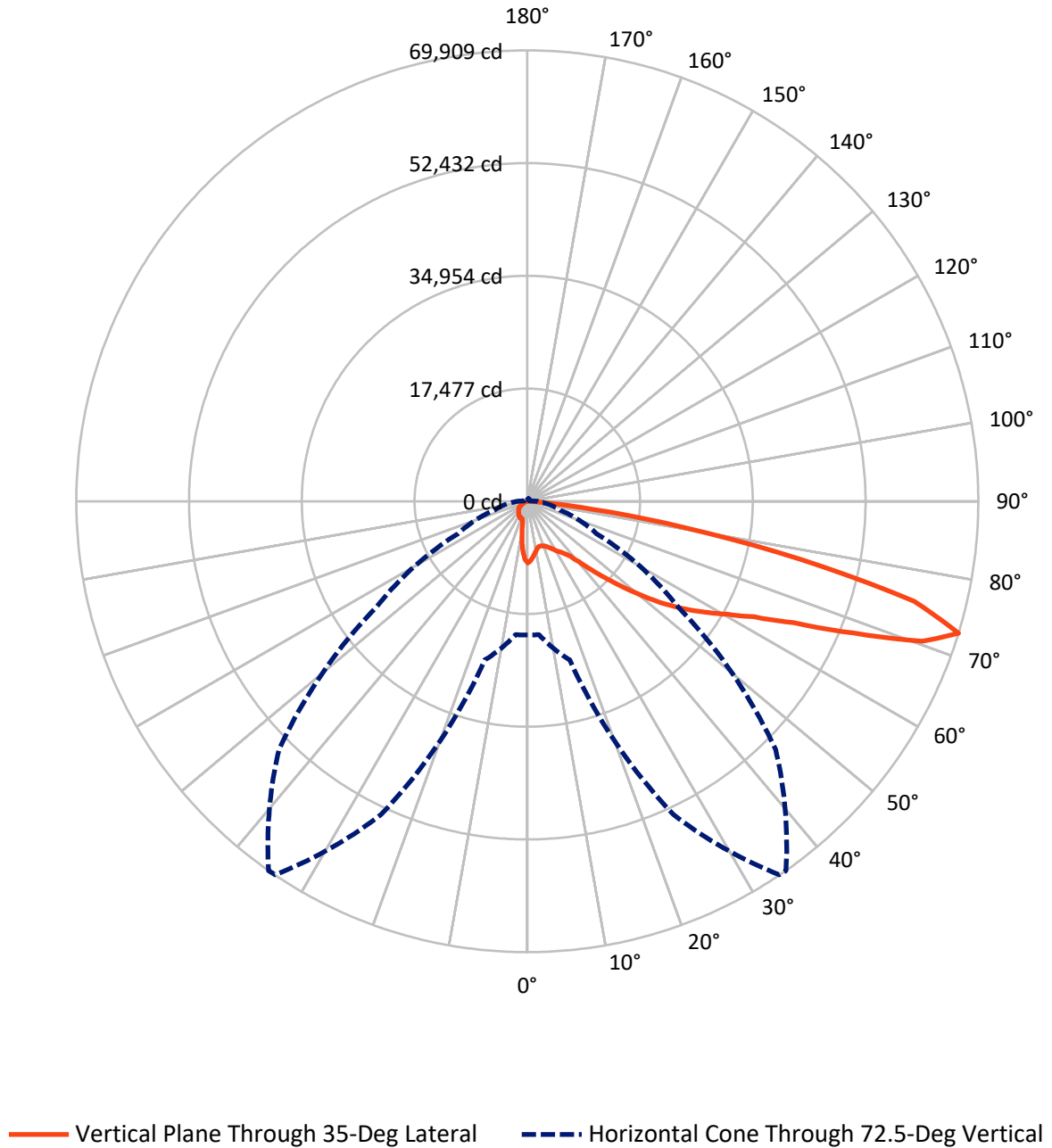
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	7418.2	0.0	7418.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	58494.8	0.0	58494.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	65913.0	0.0	65913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.0	1.2
10°-20°	1836.4	2.8
20°-30°	2983.2	4.5
30°-40°	4977.5	7.6
40°-50°	9417.5	14.3
50°-60°	14964.3	22.7
60°-70°	18511.9	28.1
70°-80°	11507.1	17.5
80°-90°	930.0	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°	65913.0	100.0
0°-180°	65913.0	100.0

Coefficient of Utilization



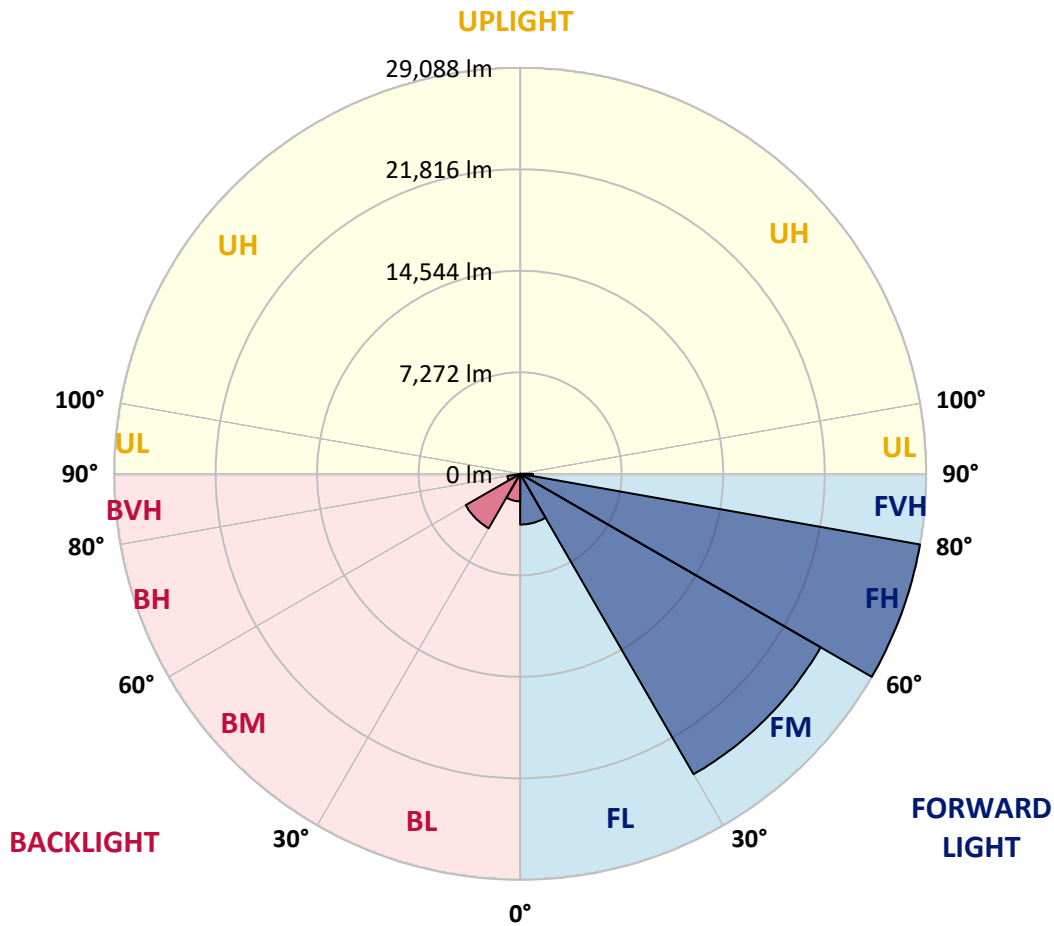
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3633.5	5.5			
FM (30°-60°)	24855.8	37.7			
FH (60°-80°)	29088.2	44.1			G5
FVH (80°-90°)	917.3	1.4			G5
BL (0°-30°)	1971.2	3.0	B3/2500		
BM (30°-60°)	4503.5	6.8	B3/5000		
BH (60°-80°)	930.9	1.4	B2/1000		G2/1000
BVH (80°-90°)	12.7	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°	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0
2.5°	9128.0	9205.3	9219.8	9243.9	9243.9	9272.9	9321.2	9388.8	9499.9	9557.8
5°	8413.2	8471.2	8543.6	8601.6	8712.6	8727.1	8915.5	9099.0	9355.0	9548.2
7.5°	7693.6	7761.2	7857.8	7997.9	8142.8	8186.2	8471.2	8780.3	9186.0	9548.2
10°	7186.5	7191.3	7278.2	7418.3	7650.1	7703.3	8051.0	8490.5	8997.6	9490.2
12.5°	6901.5	6935.3	6974.0	7080.2	7302.4	7336.2	7708.1	8224.9	8809.2	9456.4
15°	6901.5	6925.7	6949.8	7003.0	7181.7	7210.6	7539.0	8055.8	8712.6	9470.9
17.5°	6974.0	7012.6	6993.3	7056.1	7244.4	7263.8	7553.5	8007.5	8707.8	9562.7
20°	7147.8	7176.8	7138.2	7176.8	7365.2	7403.8	7703.3	8099.3	8789.9	9722.0
22.5°	7423.1	7437.6	7345.9	7374.8	7568.0	7616.3	7964.1	8360.1	8987.9	9978.0
25°	7770.9	7799.8	7659.8	7693.6	7877.1	7935.1	8335.9	8751.3	9301.9	10330.6
27.5°	8171.7	8186.2	8065.5	8060.6	8297.3	8379.4	8785.1	9234.2	9722.0	10774.9
30°	8630.5	8674.0	8558.1	8538.8	8838.2	8905.8	9306.7	9828.3	10340.2	11441.4
32.5°	8992.8	9026.6	8959.0	9007.3	9311.5	9364.6	9939.4	10668.6	11311.0	12388.0
35°	9514.4	9533.7	9379.1	9466.1	9813.8	9949.0	10803.9	11847.1	12532.9	13576.1
37.5°	11402.8	11402.8	10745.9	10316.1	10649.3	10770.1	11987.1	13329.8	14039.7	15169.9
40°	14015.6	13972.1	13011.0	12132.0	12088.6	12325.2	13672.7	15198.8	15986.1	17082.4
42.5°	16802.3	16734.7	15425.8	14556.5	14411.6	14493.7	15619.0	17502.6	18304.3	19415.1
45°	19275.0	19255.7	18058.0	16889.2	16628.4	16889.2	18048.3	20197.5	20772.2	21941.0
47.5°	21347.0	21347.0	20472.8	19709.7	19574.5	19729.0	21337.3	23187.0	23133.9	24631.1
50°	23732.8	23713.5	22882.8	22554.4	22694.4	22911.8	25123.7	26336.0	25577.7	27272.9
52.5°	25403.8	25519.8	25234.8	25181.7	25896.5	26273.2	28968.1	29417.3	27765.5	29779.5
55°	26727.2	26862.4	27190.8	27562.7	28939.1	29431.8	32691.8	32339.2	29596.0	31952.8
57.5°	28601.1	28407.9	28915.0	29649.1	31875.5	32469.6	36299.5	35096.9	31069.0	33715.6
60°	30875.8	30904.8	30991.7	31919.0	34807.1	35570.2	39854.1	37704.9	32015.6	34797.5
62.5°	33609.4	33652.8	33831.5	35256.3	38743.3	39462.9	43640.5	39839.6	32450.3	34493.2
65°	33421.0	33604.5	35599.2	40472.3	44727.2	45437.1	48059.6	41336.8	31793.4	31711.3
67.5°	30446.0	30745.4	34082.7	46702.5	53748.9	54541.0	53401.2	41631.4	28958.4	24660.1
70°	26543.6	26649.9	30663.3	52304.9	64195.4	64997.1	58182.5	38390.7	21974.8	13754.8
72.5°	20728.8	20752.9	25461.8	53604.0	69865.4	69908.9	54429.9	28499.6	11818.1	5283.6
75°	14807.6	14662.7	17053.4	43471.5	61466.7	61959.3	40805.5	13368.4	4515.7	2496.9
77.5°	7939.9	8099.3	9649.6	25780.6	42462.1	43302.4	22264.6	3854.0	2298.9	1700.0
80°	2453.5	2588.7	3955.5	11803.6	24051.5	24558.7	8253.8	1714.5	1603.4	1212.2
82.5°	772.7	801.7	1844.9	4960.0	9982.8	10214.7	2390.7	970.8	1096.3	801.7
85°	222.2	227.0	821.0	1849.7	2467.9	2516.2	671.3	376.7	627.9	497.5
87.5°	24.1	77.3	309.1	309.1	217.3	212.5	72.4	82.1	178.7	62.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944028
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9553.0	0°	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0	9553.0
9596.5	2.5°	9572.3	9577.2	9514.4	9408.1	9292.2	9195.6	9074.9	8978.3	8910.7	8891.3
9683.4	5°	9639.9	9606.1	9427.4	9103.8	8717.5	8384.2	8012.4	7717.7	7524.6	7442.5
9775.2	7.5°	9741.4	9644.8	9253.6	8616.1	7877.1	7220.3	6553.8	6037.0	5708.6	5544.4
9862.1	10°	9828.3	9635.1	8963.8	7910.9	6780.8	5785.9	4887.6	4264.6	3916.8	3752.6
9963.5	12.5°	9910.4	9630.3	8587.1	7075.4	5544.4	4327.3	3491.8	3182.7	3086.1	3052.3
10127.7	15°	10064.9	9644.8	8113.8	6119.1	4312.9	3269.7	2965.4	2960.6	2979.9	2970.2
10378.9	17.5°	10277.4	9659.3	7577.7	5104.9	3327.6	2883.3	2868.8	2912.3	2941.2	2926.8
10692.8	20°	10552.7	9717.2	7007.8	4100.4	2859.1	2786.7	2820.5	2859.1	2883.3	2859.1
11113.0	22.5°	10939.1	9818.6	6384.8	3293.8	2709.4	2728.7	2757.7	2801.2	2825.3	2791.5
11649.1	25°	11412.4	9978.0	5771.4	2864.0	2637.0	2661.1	2704.6	2752.9	2781.9	2748.1
12325.2	27.5°	12025.8	10234.0	5206.3	2767.4	2564.5	2579.0	2641.8	2714.3	2752.9	2709.4
13286.3	30°	12914.4	10654.2	4718.5	2810.8	2521.1	2487.3	2574.2	2675.6	2719.1	2680.4
14595.1	32.5°	14092.9	11248.2	4419.1	2878.5	2501.7	2381.0	2463.1	2593.5	2666.0	2641.8
16304.8	35°	15638.3	12151.3	4303.2	2955.7	2487.3	2269.9	2327.9	2467.9	2593.5	2617.7
18458.8	37.5°	17512.2	13407.0	4337.0	2989.5	2443.8	2178.2	2207.1	2327.9	2492.1	2569.4
20883.3	40°	19642.1	14870.4	4530.2	2955.7	2395.5	2100.9	2105.7	2197.5	2342.4	2458.3
23491.3	42.5°	21839.6	16580.1	4887.6	2830.2	2352.0	2033.3	2018.8	2081.6	2178.2	2260.3
26094.5	45°	23930.8	18338.1	5240.1	2656.3	2298.9	1965.7	1931.9	1956.0	1975.3	2009.1
28630.0	47.5°	25756.4	19574.5	5138.7	2496.9	2226.5	1888.4	1830.4	1820.8	1762.8	1758.0
30895.1	50°	27016.9	19844.9	4564.0	2337.5	2120.2	1801.5	1709.7	1651.7	1550.3	1502.0
32590.3	52.5°	27417.8	18777.6	3728.5	2178.2	1946.3	1685.5	1555.1	1463.4	1337.8	1294.3
33565.9	55°	26886.5	16686.4	2979.9	1985.0	1704.9	1531.0	1386.1	1265.4	1163.9	1110.8
33672.2	57.5°	25587.4	14025.2	2356.9	1758.0	1448.9	1357.1	1212.2	1091.5	1004.6	951.4
32493.7	60°	23433.4	11137.1	1864.2	1487.5	1236.4	1168.8	1019.1	941.8	864.5	801.7
29451.1	62.5°	20163.7	7949.6	1463.4	1178.4	1033.5	956.3	869.3	811.4	719.6	632.7
23979.1	65°	15734.9	4863.4	1130.1	864.5	830.7	792.1	738.9	685.8	574.7	487.8
15643.2	67.5°	9924.9	2303.7	806.5	652.0	656.8	637.5	613.4	569.9	487.8	410.5
7007.8	70°	4370.8	1115.6	531.3	497.5	487.8	487.8	507.1	492.6	415.3	342.9
2434.1	72.5°	1487.5	598.9	396.0	376.7	352.6	347.7	425.0	410.5	333.2	265.6
1212.2	75°	777.6	400.9	289.8	270.5	212.5	256.0	338.1	318.8	236.7	173.9
801.7	77.5°	507.1	284.9	198.0	173.9	120.7	169.0	251.1	222.2	140.1	86.9
526.4	80°	318.8	188.4	115.9	82.1	58.0	91.8	135.2	96.6	53.1	19.3
309.1	82.5°	169.0	96.6	43.5	29.0	24.1	29.0	33.8	24.1	9.7	0.0
159.4	85°	67.6	33.8	14.5	9.7	4.8	0.0	9.7	4.8	0.0	0.0
29.0	87.5°	24.1	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>
9553.0
8925.2
7471.4
5568.6
3757.5
3042.7
2965.4
2921.9
2854.3
2786.7
2743.2
2709.4
2675.6
2641.8
2617.7
2588.7
2496.9
2294.1
2028.4
1753.2
1506.8
1289.5
1110.8
941.8
787.2
618.2
473.3
400.9
328.4
251.1
159.4
77.3
14.5
0.0
0.0
0.0
0.0

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