

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: P953145

Luminaire Tested: **GALN-SB6D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65158 lumens
Efficiency: N/A
Efficacy: 148.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

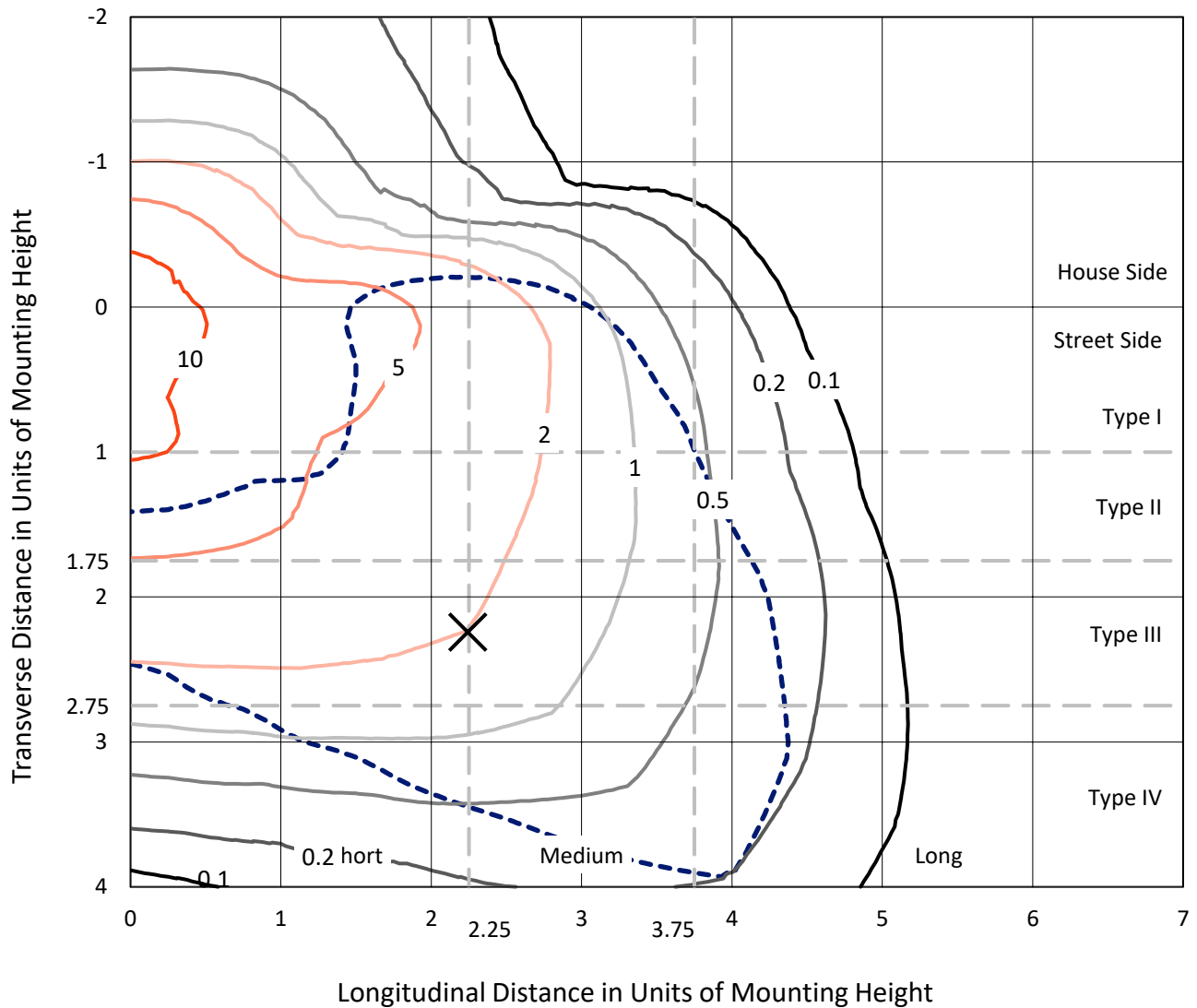
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

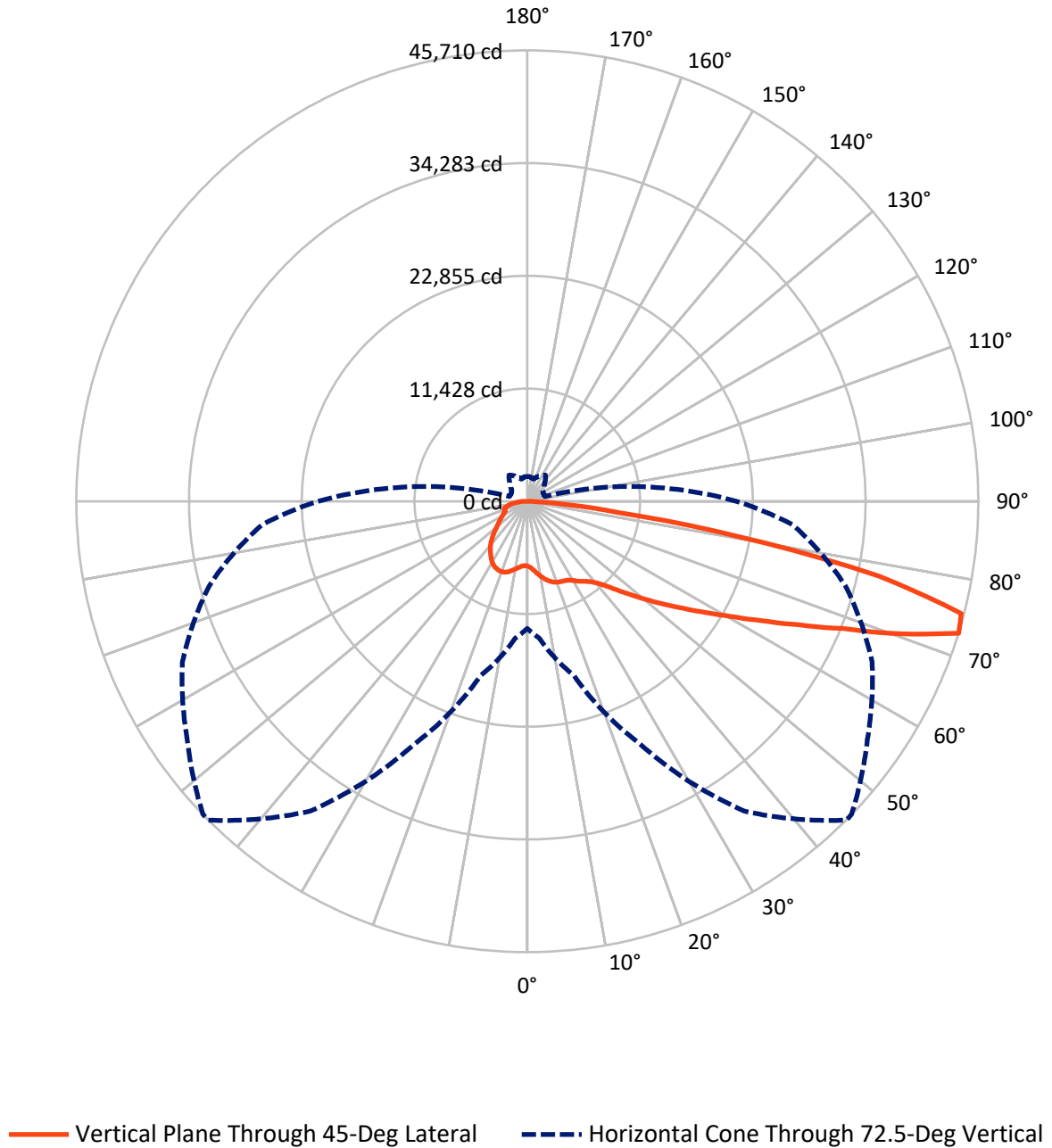
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	14730.0	0.0	14730.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	50428.0	0.0	50428.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	65158.0	0.0	65158.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.0	1.0
10°-20°	2230.6	3.4
20°-30°	3880.3	6.0
30°-40°	5562.5	8.5
40°-50°	7832.4	12.0
50°-60°	11996.9	18.4
60°-70°	17379.3	26.7
70°-80°	13878.4	21.3
80°-90°	1728.5	2.7
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°	65158.0	100.0
0°-180°	65158.0	100.0



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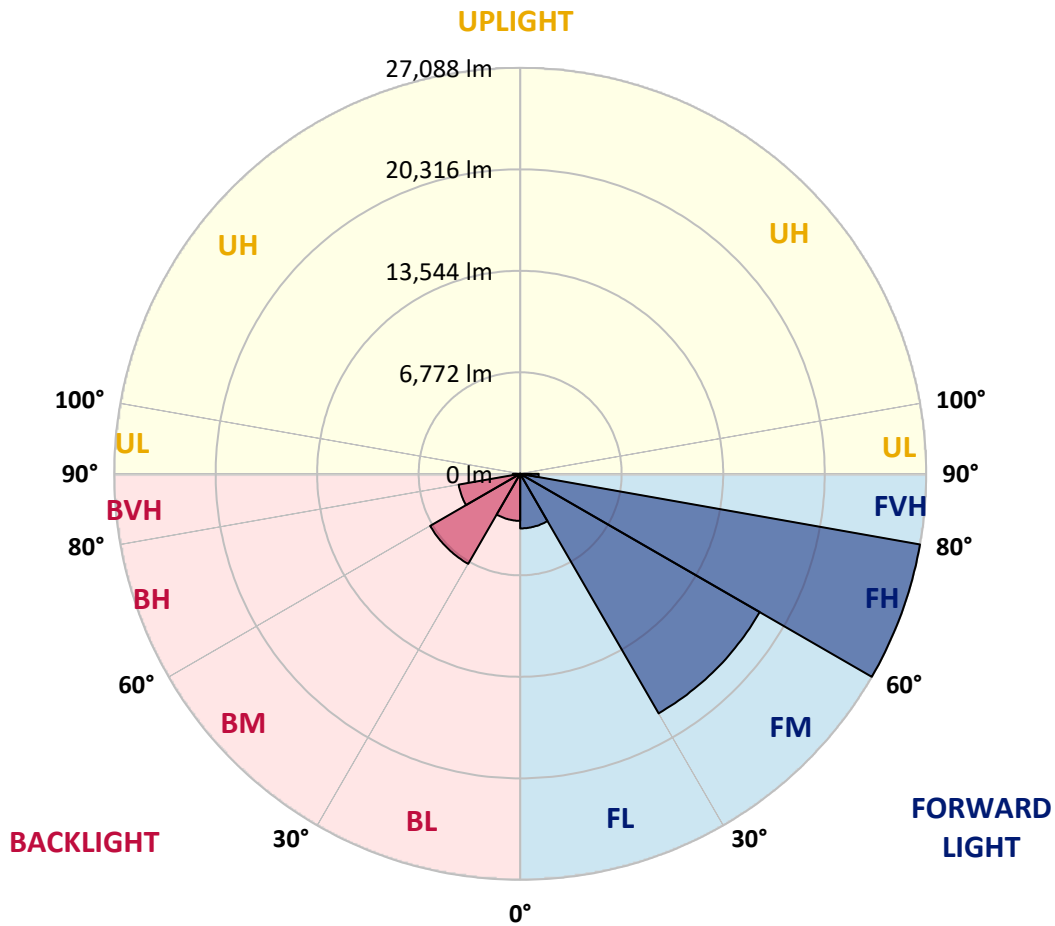
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3643.7	5.6			
FM (30°-60°)	18456.1	28.3			
FH (60°-80°)	27088.1	41.6			G5
FVH (80°-90°)	1240.0	1.9			G5
BL (0°-30°)	3136.1	4.8	B4/5000		
BM (30°-60°)	6935.7	10.6	B4/8500		
BH (60°-80°)	4169.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	488.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2
2.5°	6830.6	6875.2	6834.0	6796.3	6779.1	6734.5	6731.1	6703.6	6686.4	6638.4
5°	7307.7	7366.1	7297.4	7221.9	7153.3	7043.4	7029.7	6950.7	6861.5	6758.5
7.5°	7846.6	7898.1	7819.2	7705.9	7585.8	7403.8	7400.4	7256.2	7115.5	6940.4
10°	8316.9	8385.5	8279.1	8124.6	7973.6	7767.7	7743.6	7578.9	7400.4	7173.9
12.5°	8732.2	8780.3	8677.3	8488.5	8313.4	8107.5	8076.6	7894.7	7695.6	7438.2
15°	9061.7	9123.5	8986.2	8783.7	8598.3	8395.8	8368.4	8203.6	8004.5	7733.3
17.5°	9278.0	9329.4	9188.7	8962.2	8783.7	8615.5	8594.9	8457.6	8282.5	8007.9
20°	9360.3	9415.3	9267.7	9037.7	8872.9	8742.5	8732.2	8632.7	8512.5	8261.9
22.5°	9442.7	9494.2	9302.0	9061.7	8917.5	8835.2	8831.7	8766.5	8718.5	8512.5
25°	9775.7	9789.4	9532.0	9185.3	8979.3	8907.3	8903.8	8900.4	8921.0	8759.7
27.5°	10064.0	10060.6	9840.9	9514.8	9195.6	9044.6	9041.1	9075.4	9140.7	9006.8
30°	10486.2	10448.4	10187.6	9847.7	9556.0	9322.6	9302.0	9271.1	9322.6	9216.2
32.5°	11382.1	11261.9	10839.7	10235.6	9854.6	9676.1	9648.7	9456.4	9477.0	9411.8
35°	12665.8	12507.9	11945.0	10970.2	10225.3	9971.3	9957.6	9713.9	9672.7	9614.3
37.5°	14193.3	13997.6	13342.0	12034.2	10863.8	10314.6	10294.0	10074.3	9906.1	9844.3
40°	15727.6	15480.4	14938.1	13331.7	11804.3	10887.8	10822.6	10489.6	10297.4	10194.4
42.5°	17217.3	17011.3	16547.9	14787.1	12964.4	11725.3	11581.1	11011.4	10867.2	10771.1
45°	18535.3	18350.0	18010.2	16342.0	14323.7	12864.9	12724.2	11794.0	11749.3	11749.3
47.5°	19606.3	19565.1	19204.7	17927.8	15926.6	14162.4	13918.7	12882.0	13002.2	13187.5
50°	20793.9	20680.6	20296.2	19489.5	17811.1	15648.6	15449.5	14217.3	14666.9	15174.9
52.5°	21885.4	21947.2	21518.1	21116.5	19939.2	17306.5	16956.4	15792.8	16764.2	17605.1
55°	23007.8	23011.3	22891.1	22836.2	22170.3	19139.4	18755.0	17687.5	19232.1	20275.6
57.5°	24061.6	24068.5	24246.9	24730.9	24758.4	21253.8	20817.9	20014.7	21974.7	23038.7
60°	25002.1	25050.1	25537.6	26670.3	27034.1	23677.2	23265.3	22764.1	24809.9	25880.8
62.5°	25317.9	25492.9	26577.6	28187.4	29282.4	26649.7	26244.6	25946.0	27789.3	28784.7
65°	24782.4	25184.0	27281.2	29440.3	31595.9	30181.7	29780.1	29454.0	30885.3	31822.4
67.5°	23467.8	23986.1	27240.1	30754.9	34403.6	34431.1	34056.9	33291.5	34204.5	34564.9
70°	20004.4	20780.2	24840.8	31245.7	37626.7	40242.2	39881.8	37911.6	37516.9	35773.2
72.5°	12888.9	13932.4	18291.6	27205.7	38344.1	45710.2	45689.6	42082.0	38563.8	33425.4
75°	4702.5	5340.9	8498.8	17076.5	32186.2	45432.1	45566.0	41368.1	35203.4	25819.0
77.5°	1712.8	1874.1	2773.4	6562.9	19795.0	36452.8	36730.8	33071.8	25057.0	12957.6
80°	899.3	988.6	1421.0	2546.9	8481.6	21648.6	22084.5	19654.3	11776.8	3902.7
82.5°	497.7	538.9	796.3	1383.3	3820.3	9257.4	9518.2	7764.2	4143.0	1654.4
85°	267.7	284.9	374.1	755.1	1867.3	3209.4	3281.4	2320.3	1651.0	971.4
87.5°	78.9	96.1	123.6	240.3	731.1	720.8	738.0	460.0	652.2	490.8
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°
6573.2	0°	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2	6573.2
6624.7	2.5°	6604.1	6593.8	6556.0	6538.8	6518.3	6514.8	6532.0	6535.4	6538.8	6542.3
6700.2	5°	6665.9	6631.5	6597.2	6576.6	6583.5	6586.9	6621.2	6645.3	6662.4	6676.1
6840.9	7.5°	6786.0	6758.5	6700.2	6696.7	6707.0	6737.9	6782.6	6837.5	6868.4	6892.4
7022.8	10°	6964.5	6913.0	6844.3	6854.6	6875.2	6919.9	7012.5	7057.2	7108.6	7153.3
7245.9	12.5°	7146.4	7101.8	7022.8	7029.7	7064.0	7143.0	7232.2	7287.1	7321.5	7355.8
7486.2	15°	7383.2	7304.3	7218.5	7218.5	7280.3	7366.1	7407.3	7451.9	7472.5	7510.2
7743.6	17.5°	7626.9	7524.0	7410.7	7403.8	7479.3	7520.5	7544.6	7551.4	7558.3	7599.5
7994.2	20°	7870.6	7757.4	7596.0	7582.3	7599.5	7592.6	7589.2	7582.3	7592.6	7644.1
8251.7	22.5°	8110.9	7980.5	7757.4	7695.6	7647.5	7582.3	7578.9	7575.5	7582.3	7633.8
8529.7	25°	8392.4	8234.5	7935.9	7750.5	7589.2	7499.9	7510.2	7513.7	7520.5	7561.7
8818.0	27.5°	8697.9	8522.8	8100.6	7733.3	7441.6	7379.8	7362.6	7372.9	7397.0	7462.2
9106.3	30°	9003.4	8797.4	8251.7	7664.7	7256.2	7170.4	7115.5	7139.5	7215.0	7280.3
9356.9	32.5°	9281.4	9075.4	8371.8	7513.7	7019.4	6885.5	6813.4	6844.3	6919.9	6943.9
9634.9	35°	9607.5	9374.1	8423.3	7273.4	6762.0	6556.0	6459.9	6415.3	6453.0	6429.0
9961.0	37.5°	9971.3	9727.6	8416.4	6957.6	6459.9	6223.1	6089.2	5921.0	5842.1	5759.7
10441.6	40°	10510.2	10160.1	8334.0	6576.6	6085.8	5869.5	5629.2	5344.4	5165.9	5004.5
11217.3	42.5°	11244.8	10760.8	8183.0	6157.8	5663.6	5461.1	5135.0	4802.0	4520.6	4252.8
12394.6	45°	12339.7	11546.8	7994.2	5711.6	5207.1	5008.0	4654.4	4280.3	3961.1	3617.8
14066.2	47.5°	13918.7	12604.0	7815.7	5203.6	4726.5	4544.6	4225.4	3878.7	3501.1	3168.2
16482.7	50°	16088.0	14121.2	7651.0	4709.3	4252.8	4115.5	3861.5	3508.0	3127.0	2859.2
19314.5	52.5°	18847.7	16184.1	7582.3	4232.2	3810.0	3758.6	3556.0	3226.5	2866.1	2639.6
22616.5	55°	22015.8	18652.0	7582.3	3775.7	3422.2	3439.3	3298.6	2993.1	2680.8	2478.2
26021.5	57.5°	25249.2	21150.9	7445.0	3353.5	3092.7	3164.7	3075.5	2807.8	2526.3	2316.9
29601.6	60°	28228.6	23244.7	6889.0	2969.1	2800.9	2914.2	2855.8	2625.8	2282.6	2107.5
32594.7	62.5°	30518.1	24425.4	5818.0	2663.6	2560.6	2691.1	2660.2	2385.6	2238.0	2165.9
35052.4	65°	31664.5	24233.2	4448.5	2392.4	2358.1	2560.6	2495.4	2485.1	2368.4	2286.0
35852.1	67.5°	30960.9	22578.8	3226.5	2193.3	2241.4	2440.5	2691.1	2732.2	2516.0	2354.7
33600.4	70°	27875.1	19585.7	2402.7	2004.6	2093.8	2443.9	3068.6	2859.2	2467.9	2279.2
26948.3	72.5°	21205.8	14605.1	1863.8	1805.5	1901.6	2461.1	3236.8	2800.9	2330.6	2519.4
16788.2	75°	12126.9	8018.2	1496.6	1561.8	1661.3	2299.8	3151.0	2649.9	2224.2	2313.5
6652.1	77.5°	4623.5	3082.4	1235.7	1321.5	1335.2	2008.0	3013.7	2639.6	2117.8	2066.3
1994.3	80°	1603.0	1204.8	1022.9	1050.3	1033.2	1784.9	2890.1	2296.3	1733.4	1551.5
823.8	82.5°	655.6	600.7	810.1	775.7	734.5	1386.7	2334.1	1877.6	1417.6	1252.9
398.2	85°	284.9	381.0	535.5	470.2	425.6	961.1	1870.7	1589.2	1197.9	1033.2
130.4	87.5°	58.4	144.2	226.5	212.8	219.7	641.9	1328.4	1129.3	847.8	635.0
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>
6573.2
6556.0
6683.0
6899.3
7143.0
7369.5
7524.0
7613.2
7664.7
7668.1
7616.6
7527.4
7352.3
7029.7
6504.5
5811.2
5014.8
4228.8
3576.6
3130.4
2842.1
2622.4
2457.6
2282.6
2080.1
2141.9
2258.6
2327.2
2248.3
2498.8
2313.5
1884.4
1500.0
1239.1
1029.7
497.7
0.0

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