

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: P955644

Luminaire Tested: **GALN-SB8C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955644
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-SB8C-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63944 lumens
Efficiency: N/A
Efficacy: 159.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

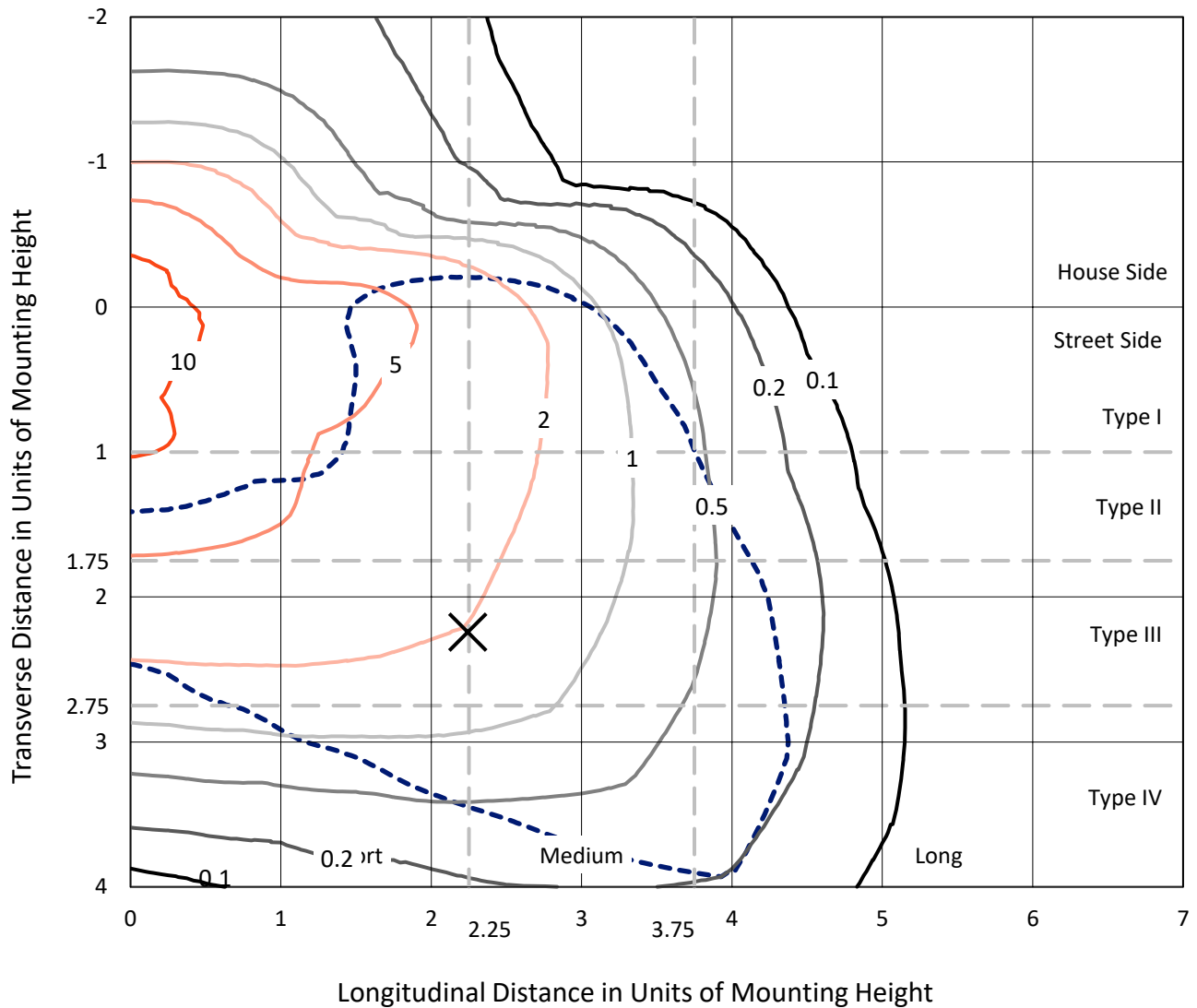
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

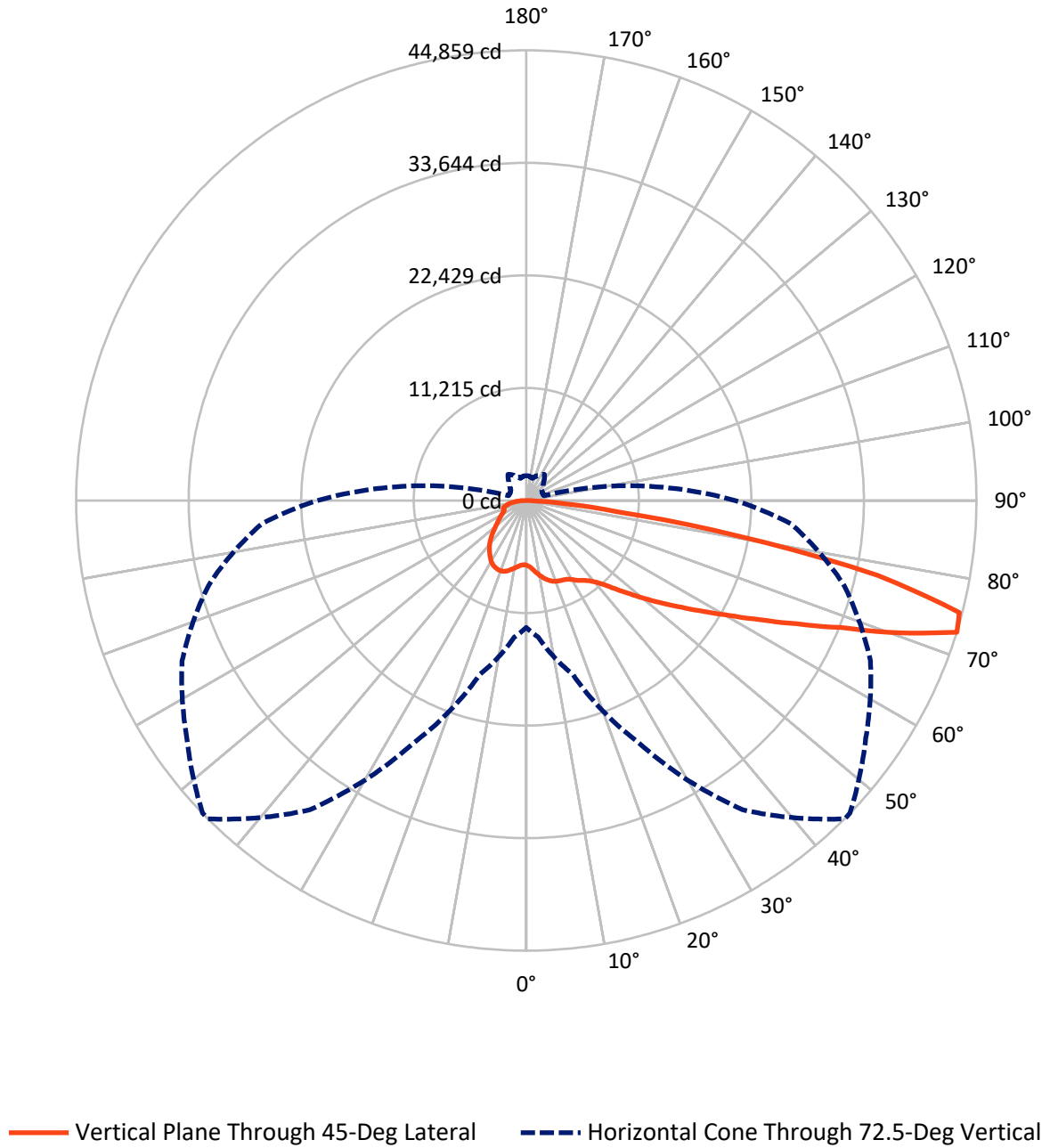
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	14455.5	0.0	14455.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	49488.5	0.0	49488.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	63944.0	0.0	63944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.6	1.0
10°-20°	2189.0	3.4
20°-30°	3808.0	6.0
30°-40°	5458.9	8.5
40°-50°	7686.5	12.0
50°-60°	11773.4	18.4
60°-70°	17055.5	26.7
70°-80°	13619.9	21.3
80°-90°	1696.3	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°	63944.0	100.0
0°-180°	63944.0	100.0

Coefficient of Utilization



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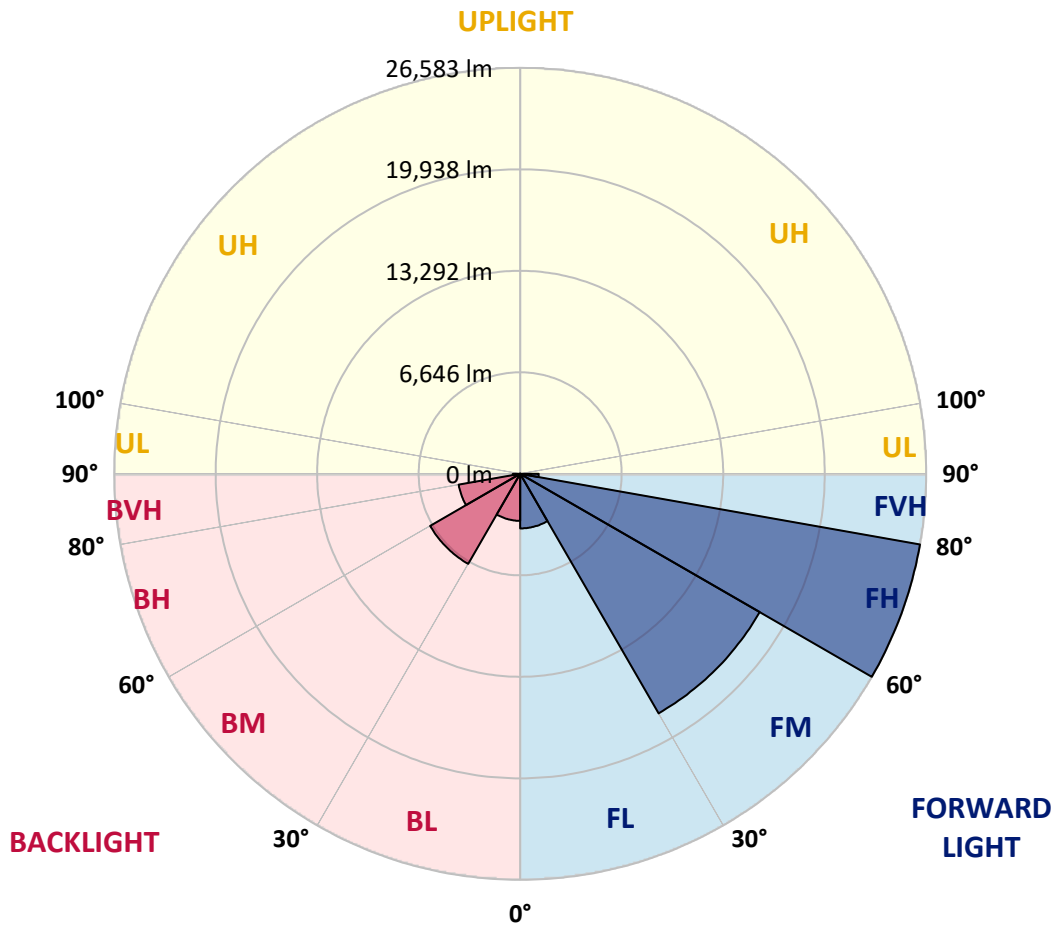
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.8	5.6			
FM (30°-60°)	18112.3	28.3			
FH (60°-80°)	26583.4	41.6			G5
FVH (80°-90°)	1216.9	1.9			G5
BL (0°-30°)	3077.7	4.8	B4/5000		
BM (30°-60°)	6806.5	10.6	B4/8500		
BH (60°-80°)	4092.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	479.3	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°	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7
2.5°	6703.3	6747.1	6706.7	6669.7	6652.8	6609.0	6605.7	6578.7	6561.9	6514.7
5°	7171.6	7228.8	7161.5	7087.4	7020.0	6912.2	6898.7	6821.2	6733.7	6632.6
7.5°	7700.4	7751.0	7673.5	7562.3	7444.4	7265.9	7262.5	7121.0	6982.9	6811.1
10°	8161.9	8229.3	8124.9	7973.3	7825.1	7622.9	7599.4	7437.7	7262.5	7040.2
12.5°	8569.5	8616.7	8515.6	8330.3	8158.5	7956.4	7926.1	7747.6	7552.2	7299.6
15°	8892.9	8953.5	8818.8	8620.0	8438.1	8239.4	8212.4	8050.7	7855.4	7589.3
17.5°	9105.1	9155.6	9017.5	8795.2	8620.0	8455.0	8434.8	8300.0	8128.2	7858.7
20°	9185.9	9239.8	9095.0	8869.3	8707.6	8579.6	8569.5	8471.8	8353.9	8108.0
22.5°	9266.8	9317.3	9128.7	8892.9	8751.4	8670.6	8667.2	8603.2	8556.0	8353.9
25°	9593.5	9607.0	9354.4	9014.1	8812.0	8741.3	8737.9	8734.6	8754.8	8596.4
27.5°	9876.5	9873.1	9657.5	9337.5	9024.3	8876.0	8872.7	8906.4	8970.4	8839.0
30°	10290.8	10253.8	9997.8	9664.3	9377.9	9148.9	9128.7	9098.4	9148.9	9044.5
32.5°	11170.0	11052.1	10637.8	10044.9	9671.0	9495.8	9468.9	9280.3	9300.5	9236.5
35°	12429.8	12274.9	11722.4	10765.8	10034.8	9785.5	9772.1	9532.9	9492.5	9435.2
37.5°	13928.8	13736.8	13093.4	11810.0	10661.3	10122.4	10102.2	9886.6	9721.5	9660.9
40°	15434.5	15192.0	14659.8	13083.3	11584.3	10684.9	10620.9	10294.2	10105.5	10004.5
42.5°	16896.5	16694.4	16239.6	14511.6	12722.9	11506.8	11365.4	10806.2	10664.7	10570.4
45°	18190.0	18008.1	17674.6	16037.5	14056.8	12625.2	12487.1	11574.2	11530.4	11530.4
47.5°	19241.0	19200.5	18846.8	17593.8	15629.9	13898.5	13659.3	12642.0	12759.9	12941.8
50°	20406.5	20295.3	19918.0	19126.4	17479.2	15357.1	15161.7	13952.4	14393.7	14892.2
52.5°	21477.6	21538.3	21117.2	20723.1	19567.7	16984.0	16640.5	15498.5	16451.8	17277.1
55°	22579.2	22582.5	22464.6	22410.7	21757.2	18782.8	18405.6	17358.0	18873.8	19897.8
57.5°	23613.3	23620.0	23795.2	24270.1	24297.1	20857.8	20430.0	19641.8	21565.2	22609.5
60°	24536.3	24583.4	25061.7	26173.4	26530.4	23236.0	22831.8	22340.0	24347.6	25398.6
62.5°	24846.2	25018.0	26082.4	27662.2	28736.8	26153.1	25755.7	25462.6	27271.5	28248.4
65°	24320.7	24714.8	26773.0	28891.7	31007.2	29619.3	29225.2	28905.2	30309.9	31229.5
67.5°	23030.5	23539.2	26732.5	30181.9	33762.6	33789.6	33422.4	32671.2	33567.2	33920.9
70°	19631.7	20393.0	24377.9	30663.6	36925.7	39492.5	39138.8	37205.2	36817.9	35106.7
72.5°	12648.8	13672.8	17950.8	26698.8	37629.7	44858.5	44838.3	41298.0	37845.3	32802.6
75°	4614.9	5241.4	8340.4	16758.4	31586.6	44585.7	44717.0	40597.3	34547.5	25338.0
77.5°	1680.9	1839.2	2721.8	6440.6	19426.2	35773.6	36046.5	32455.6	24590.2	12716.1
80°	882.6	970.1	1394.6	2499.4	8323.6	21245.2	21673.0	19288.1	11557.4	3830.0
82.5°	488.4	528.9	781.5	1357.5	3749.2	9084.9	9340.9	7619.6	4065.8	1623.6
85°	262.7	279.6	367.2	741.1	1832.5	3149.6	3220.3	2277.1	1620.3	953.3
87.5°	77.5	94.3	121.3	235.8	717.5	707.4	724.2	451.4	640.0	481.7
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°
6450.7	0°	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7	6450.7
6501.2	2.5°	6481.0	6470.9	6433.9	6417.0	6396.8	6393.4	6410.3	6413.7	6417.0	6420.4
6575.3	5°	6541.7	6508.0	6474.3	6454.1	6460.8	6464.2	6497.9	6521.4	6538.3	6551.8
6713.4	7.5°	6659.6	6632.6	6575.3	6572.0	6582.1	6612.4	6656.2	6710.1	6740.4	6764.0
6892.0	10°	6834.7	6784.2	6716.8	6726.9	6747.1	6790.9	6881.9	6925.7	6976.2	7020.0
7110.9	12.5°	7013.2	6969.5	6892.0	6898.7	6932.4	7009.9	7097.5	7151.4	7185.0	7218.7
7346.7	15°	7245.7	7168.2	7084.0	7084.0	7144.6	7228.8	7269.3	7313.0	7333.3	7370.3
7599.4	17.5°	7484.8	7383.8	7272.6	7265.9	7340.0	7380.4	7404.0	7410.7	7417.5	7457.9
7845.3	20°	7724.0	7612.8	7454.5	7441.0	7457.9	7451.2	7447.8	7441.0	7451.2	7501.7
8097.9	22.5°	7959.8	7831.8	7612.8	7552.2	7505.1	7441.0	7437.7	7434.3	7441.0	7491.6
8370.8	25°	8236.0	8081.1	7788.0	7606.1	7447.8	7360.2	7370.3	7373.7	7380.4	7420.8
8653.7	27.5°	8535.8	8364.0	7949.7	7589.3	7302.9	7242.3	7225.5	7235.6	7259.1	7323.2
8936.7	30°	8835.6	8633.5	8097.9	7521.9	7121.0	7036.8	6982.9	7006.5	7080.6	7144.6
9182.6	32.5°	9108.5	8906.4	8215.8	7373.7	6888.6	6757.2	6686.5	6716.8	6790.9	6814.5
9455.4	35°	9428.5	9199.4	8266.3	7137.9	6636.0	6433.9	6339.5	6295.8	6332.8	6309.2
9775.4	37.5°	9785.5	9546.4	8259.6	6828.0	6339.5	6107.1	5975.7	5810.7	5733.2	5652.4
10247.0	40°	10314.4	9970.8	8178.8	6454.1	5972.4	5760.2	5524.4	5244.8	5069.6	4911.3
11008.3	42.5°	11035.3	10560.3	8030.5	6043.1	5558.0	5359.3	5039.3	4712.6	4436.3	4173.6
12163.7	45°	12109.8	11331.7	7845.3	5605.2	5110.0	4914.7	4567.7	4200.5	3887.3	3550.4
13804.2	47.5°	13659.3	12369.2	7670.1	5106.7	4638.4	4459.9	4146.6	3806.4	3435.9	3109.1
16175.6	50°	15788.2	13858.1	7508.4	4621.6	4173.6	4038.8	3789.6	3442.6	3068.7	2806.0
18954.6	52.5°	18496.5	15882.5	7441.0	4153.4	3739.1	3688.5	3489.8	3166.4	2812.7	2590.4
22195.1	55°	21605.7	18304.5	7441.0	3705.4	3358.4	3375.3	3237.1	2937.3	2630.8	2432.1
25536.7	57.5°	24778.8	20756.8	7306.3	3291.0	3035.0	3105.8	3018.2	2755.4	2479.2	2273.7
29050.1	60°	27702.7	22811.6	6760.6	2913.8	2748.7	2859.9	2802.6	2576.9	2240.1	2068.3
31987.4	62.5°	29949.5	23970.3	5709.6	2614.0	2512.9	2640.9	2610.6	2341.1	2196.3	2125.5
34399.3	65°	31074.5	23781.7	4365.6	2347.9	2314.2	2512.9	2448.9	2438.8	2324.3	2243.4
35184.1	67.5°	30384.0	22158.1	3166.4	2152.5	2199.6	2395.0	2640.9	2681.3	2469.1	2310.8
32974.4	70°	27355.7	19220.7	2358.0	1967.2	2054.8	2398.4	3011.5	2806.0	2422.0	2236.7
26446.2	72.5°	20810.7	14333.0	1829.1	1771.8	1866.2	2415.2	3176.5	2748.7	2287.2	2472.5
16475.4	75°	11901.0	7868.8	1468.7	1532.7	1630.4	2256.9	3092.3	2600.5	2182.8	2270.4
6528.2	77.5°	4537.4	3024.9	1212.7	1296.9	1310.4	1970.6	2957.6	2590.4	2078.4	2027.8
1957.1	80°	1573.1	1182.3	1003.8	1030.8	1013.9	1751.6	2836.3	2253.5	1701.1	1522.6
808.4	82.5°	643.4	589.5	795.0	761.3	720.9	1360.9	2290.6	1842.6	1391.2	1229.5
390.7	85°	279.6	373.9	525.5	461.5	417.7	943.2	1835.8	1559.6	1175.6	1013.9
128.0	87.5°	57.3	141.5	222.3	208.8	215.6	629.9	1303.6	1108.2	832.0	623.2
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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180°
6450.7
6433.9
6558.5
6770.7
7009.9
7232.2
7383.8
7471.4
7521.9
7525.3
7474.7
7387.2
7215.4
6898.7
6383.3
5702.9
4921.4
4150.0
3510.0
3072.1
2789.1
2573.5
2411.9
2240.1
2041.3
2102.0
2216.5
2283.9
2206.4
2452.3
2270.4
1849.3
1472.0
1216.0
1010.6
488.4
0.0

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