

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: P954714

Luminaire Tested: **GALN-SB7D-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70506 lumens
Efficiency: N/A
Efficacy: 137.5 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

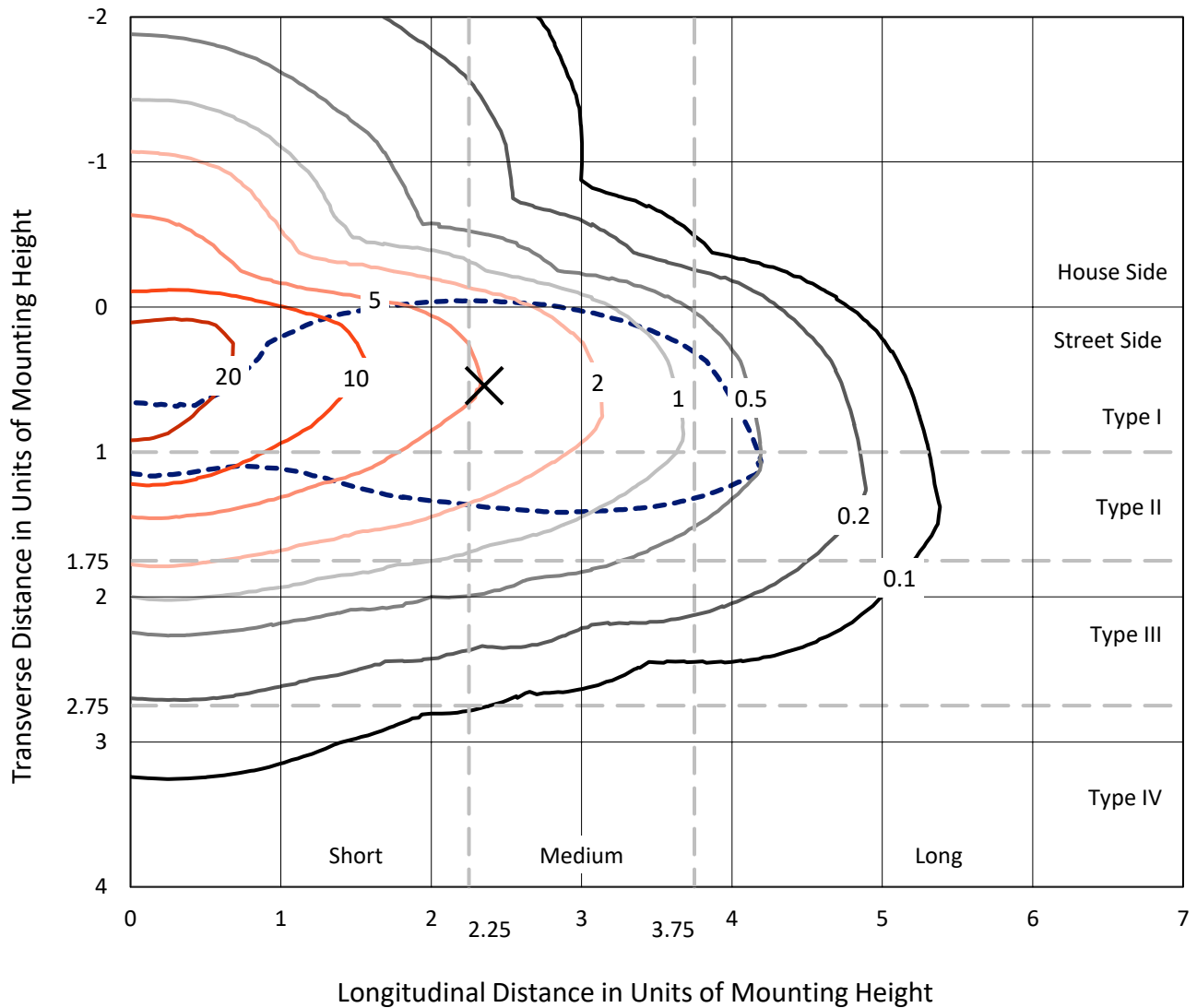
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

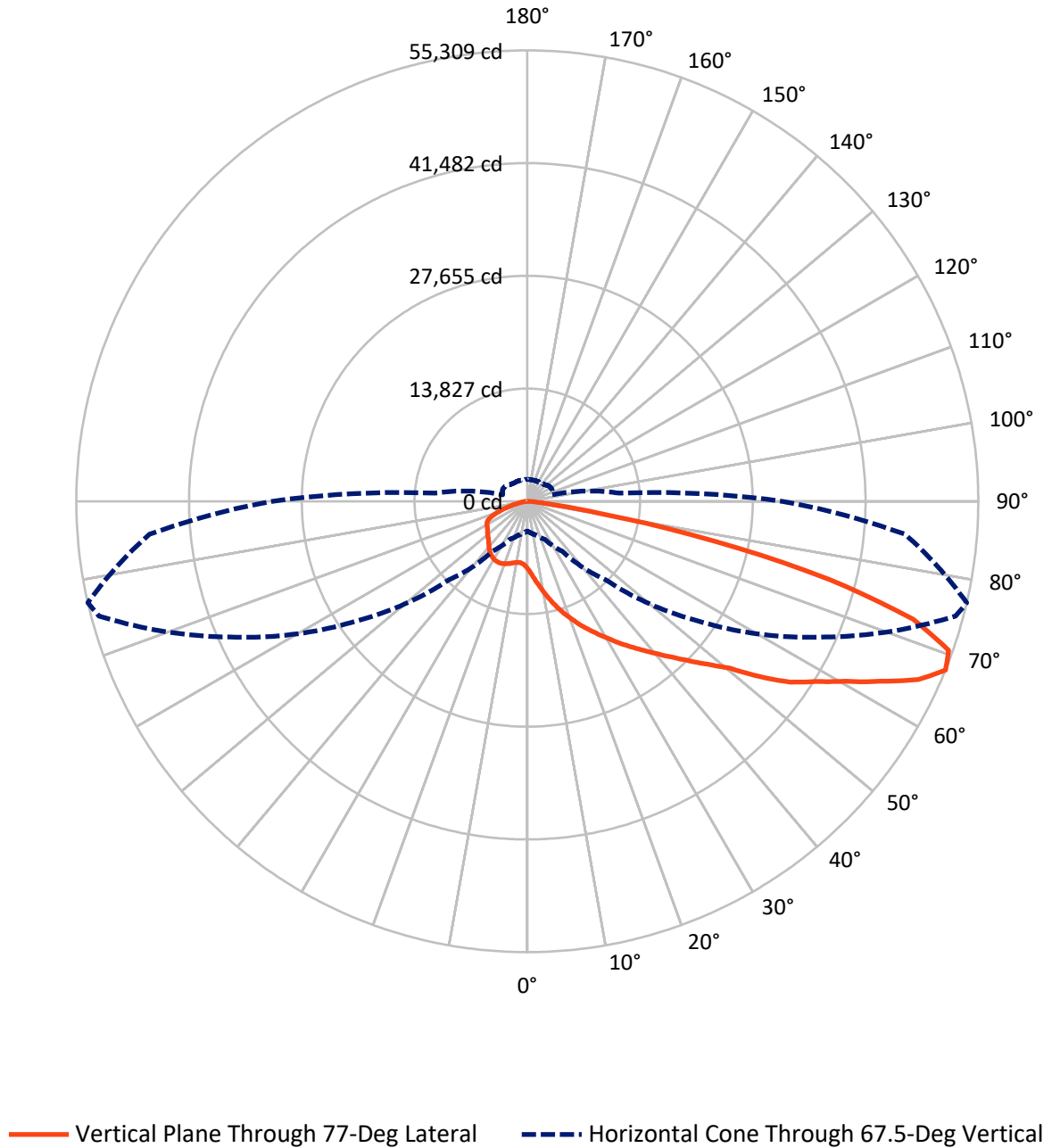
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13336.9	0.0	13336.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	57169.1	0.0	57169.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	70506.0	0.0	70506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.7	1.3
10°-20°	3185.6	4.5
20°-30°	6014.7	8.5
30°-40°	9689.5	13.7
40°-50°	13253.5	18.8
50°-60°	14950.1	21.2
60°-70°	13954.0	19.8
70°-80°	7649.2	10.8
80°-90°	922.7	1.3
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°	70506.0	100.0
0°-180°	70506.0	100.0

Coefficient of Utilization



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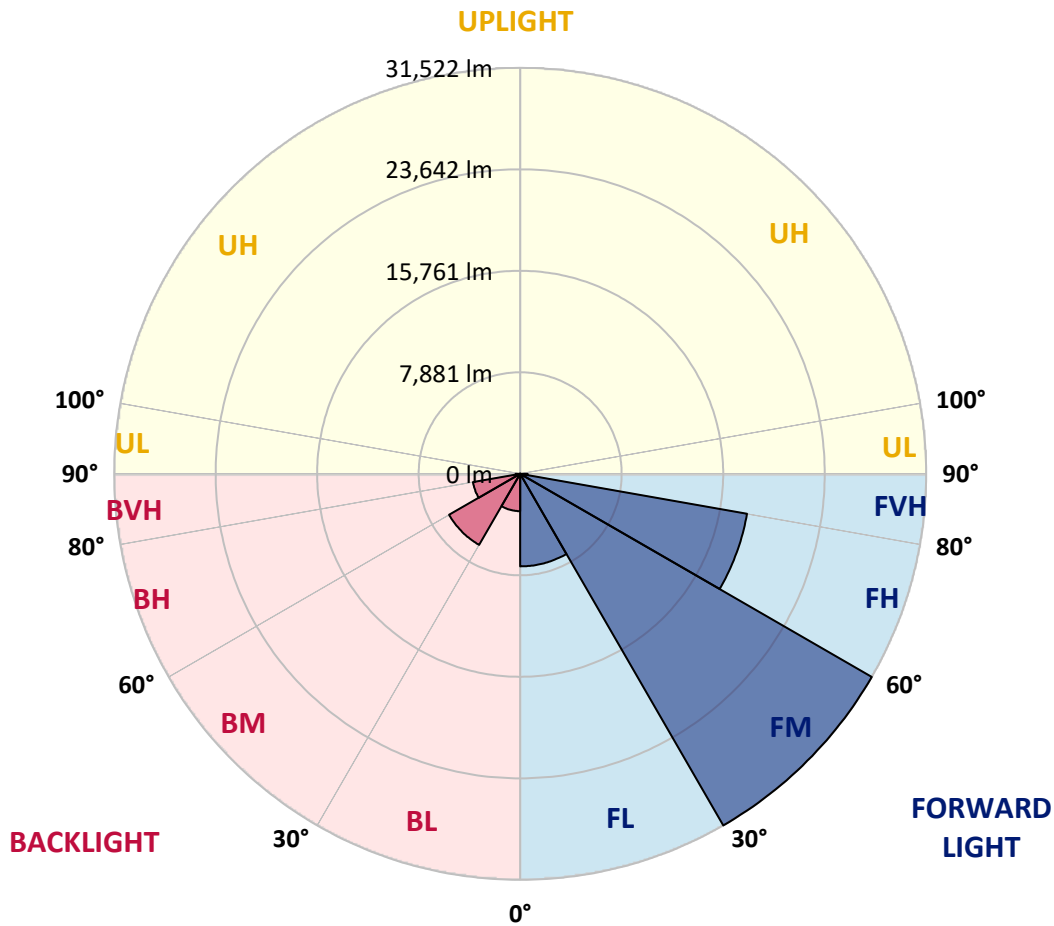
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7187.2	10.2			
FM (30°-60°)	31522.5	44.7			
FH (60°-80°)	17882.4	25.4			G5
FVH (80°-90°)	577.0	0.8			G4/750
BL (0°-30°)	2899.8	4.1	B4/5000		
BM (30°-60°)	6370.7	9.0	B4/8500		
BH (60°-80°)	3720.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	345.7	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5
2.5°	10358.0	10430.8	10339.8	10339.8	10034.1	9873.9	9568.2	9335.3	8916.7	8843.9
5°	12243.2	12334.2	12206.8	12152.2	11791.9	11460.7	10947.6	10441.7	9695.6	9619.2
7.5°	13702.7	13819.1	13706.3	13648.1	13327.8	12956.6	12356.0	11650.0	10598.2	10449.0
10°	14892.8	14911.0	14874.6	14896.4	14645.3	14339.6	13724.5	12902.0	11588.1	11384.3
12.5°	15566.1	15649.8	15722.6	15853.6	15809.9	15620.7	15067.5	14084.8	12636.3	12374.2
15°	15882.7	16028.3	16192.1	16494.1	16738.0	16785.3	16363.1	15355.0	13702.7	13386.0
17.5°	15995.5	16133.8	16392.2	16829.0	17353.1	17706.1	17516.8	16588.8	14758.1	14394.2
20°	16566.9	16607.0	16763.5	17178.4	17746.1	18332.1	18474.0	17775.2	15802.6	15391.4
22.5°	17789.8	17709.7	17753.4	17942.6	18350.3	18918.0	19241.9	18823.4	16876.3	16403.1
25°	19809.7	19576.8	19343.9	19125.5	19332.9	19653.2	20020.8	19871.6	18000.9	17400.4
27.5°	22361.0	22077.1	21563.9	20847.0	20595.8	20708.7	20872.4	20843.3	19041.8	18434.0
30°	24872.2	24541.0	23929.6	22892.3	22230.0	21931.5	21807.8	21724.1	20173.7	19525.8
32.5°	26877.6	26615.5	26015.0	24854.0	23893.2	23383.7	22972.4	22674.0	21356.5	20708.7
35°	28631.8	28388.0	27700.1	26433.6	25389.0	24846.7	24308.1	23671.2	22586.6	21931.5
37.5°	30233.2	29989.3	29046.7	27729.2	26677.4	26302.5	25822.1	24741.2	23820.4	23201.7
40°	31245.0	31190.4	30309.6	28817.4	27725.6	27540.0	27379.8	25982.3	25188.9	24613.8
42.5°	31503.4	31623.5	30924.7	29698.2	28657.3	28508.1	28882.9	27387.1	26724.7	26175.2
45°	30881.0	31226.8	30768.2	29934.7	29319.7	29239.6	30215.0	28923.0	28424.4	27922.1
47.5°	29305.1	29891.1	29701.8	29585.4	29498.0	29843.8	31386.9	30553.5	30349.6	29912.9
50°	26124.2	27234.2	27565.4	28300.6	29145.0	30313.3	32453.3	32333.2	32598.8	32158.5
52.5°	20624.9	22153.5	24075.2	25916.8	28060.4	30156.8	33625.2	34888.1	36009.0	35768.8
55°	17025.5	17713.4	19191.0	22568.4	25956.8	29498.0	34152.9	36951.7	39393.8	39179.0
57.5°	14259.5	14874.6	15784.4	18605.0	22775.9	28002.2	34480.5	38210.9	41712.1	41690.3
60°	11293.3	11944.8	12876.5	14874.6	19060.0	25418.1	34407.7	39644.9	44671.0	44853.0
62.5°	7945.0	8662.0	9695.6	11559.0	15264.0	22069.8	32922.8	40682.1	48154.0	48649.0
65°	5222.7	5695.8	6474.6	8083.3	11373.4	17764.3	30087.6	40816.8	51880.8	52717.9
67.5°	3661.3	3843.3	4301.9	5175.3	7497.3	13622.6	25571.0	39422.9	54366.6	55309.2
70°	2857.0	2948.0	3180.9	3530.3	4709.5	9160.6	19595.0	35798.0	53835.2	54817.9
72.5°	2467.6	2554.9	2642.3	2685.9	3159.1	5655.8	13273.2	29931.1	48830.9	49497.0
75°	2238.3	2260.1	2332.9	2318.4	2409.3	3668.6	7661.1	21807.8	38527.6	38298.3
77.5°	1881.6	1910.7	2030.8	2012.6	2140.0	2507.6	3978.0	14073.9	24977.8	23420.1
80°	1594.1	1608.7	1739.7	1717.8	1859.8	1816.1	2030.8	7173.4	10594.5	8975.0
82.5°	553.2	684.2	1328.4	1368.4	1419.4	1099.1	1171.9	2926.1	3235.5	2478.5
85°	269.3	287.5	676.9	960.8	957.2	553.2	571.4	1044.5	1019.1	800.7
87.5°	43.7	54.6	80.1	374.9	298.4	145.6	196.5	203.8	211.1	182.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8272.5	0°	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5	8272.5
8567.3	2.5°	8363.5	8181.6	7799.4	7446.4	7169.8	6904.1	6754.9	6627.5	6554.7	6540.2
8967.7	5°	8589.2	8214.3	7519.2	6933.2	6551.1	6267.2	6118.0	6023.3	5976.0	5946.9
9506.3	7.5°	8913.1	8363.5	7373.6	6707.6	6307.2	6103.4	6027.0	6012.4	6008.8	6012.4
10157.8	10°	9360.7	8607.4	7359.0	6653.0	6318.1	6205.3	6201.7	6205.3	6219.9	6223.5
10867.5	12.5°	9844.8	8858.5	7417.3	6700.3	6456.4	6394.6	6383.7	6380.0	6390.9	6398.2
11584.5	15°	10372.5	9189.7	7515.5	6802.2	6609.3	6543.8	6532.9	6511.0	6507.4	6503.8
12337.8	17.5°	10914.8	9517.2	7624.7	6911.4	6707.6	6616.6	6576.5	6525.6	6485.6	6474.6
13116.7	20°	11464.4	9841.2	7701.1	6966.0	6714.8	6587.5	6507.4	6420.0	6350.9	6310.9
13902.8	22.5°	12050.3	10179.6	7748.5	6951.4	6649.3	6474.6	6329.1	6227.2	6121.6	6052.5
14696.2	25°	12621.7	10474.4	7744.8	6875.0	6522.0	6299.9	6114.3	5983.3	5837.7	5764.9
15515.1	27.5°	13171.3	10740.1	7653.8	6740.3	6340.0	6092.5	5870.5	5714.0	5572.0	5502.9
16341.3	30°	13739.0	10962.1	7511.9	6543.8	6125.2	5852.3	5608.4	5473.8	5346.4	5280.9
17214.8	32.5°	14303.2	11165.9	7311.7	6299.9	5877.8	5615.7	5375.5	5251.8	5175.3	5175.3
18153.7	35°	14900.0	11307.9	7046.0	6016.1	5615.7	5364.6	5175.3	5102.6	5095.3	5051.6
19147.3	37.5°	15529.7	11398.9	6722.1	5724.9	5357.3	5120.8	5062.5	4975.2	4902.4	4807.8
20239.2	40°	16192.1	11489.8	6332.7	5422.8	5084.4	4953.3	4927.9	4811.4	4603.9	4371.0
21476.6	42.5°	16996.4	11551.7	5928.7	5120.8	4796.8	4753.2	4789.6	4589.4	4258.2	4083.5
22968.8	45°	17928.1	11653.6	5557.5	4822.3	4502.0	4502.0	4654.9	4392.9	4119.9	4010.7
24672.1	47.5°	19136.4	11890.2	5211.7	4494.8	4229.1	4301.9	4356.5	4156.3	4003.4	3868.8
26746.6	50°	20883.4	12457.9	4855.1	4163.6	4021.6	4167.2	4090.8	3974.3	3796.0	3686.8
30043.9	52.5°	23052.5	12792.8	4538.4	3865.1	3843.3	3988.9	3879.7	3770.5	3635.8	3490.3
32544.3	55°	24530.1	12854.7	4272.8	3646.8	3723.2	3708.6	3668.6	3570.3	3497.5	3304.7
35011.8	57.5°	26182.4	12978.4	4054.4	3515.7	3646.8	3486.6	3472.1	3388.4	3293.7	3162.7
38021.7	60°	28158.7	13171.3	3865.1	3464.8	3581.3	3341.0	3268.3	3235.5	3140.9	3075.4
41643.0	62.5°	30313.3	13346.0	3672.2	3472.1	3504.8	3199.1	3089.9	3079.0	3020.8	2998.9
45042.2	65°	31783.6	12869.2	3432.0	3464.8	3384.7	3053.5	2915.2	2911.6	2864.3	2857.0
46516.2	67.5°	31270.4	11358.8	3108.1	3362.9	3261.0	2907.9	2755.1	2740.5	2678.7	2682.3
44976.7	70°	28701.0	9204.3	2660.5	3111.8	3108.1	2776.9	2587.7	2540.4	2456.7	2471.2
39106.2	72.5°	23882.3	6820.4	2059.9	2693.2	2864.3	2656.8	2394.8	2318.4	2212.8	2227.4
28868.4	75°	17247.5	4636.7	1499.5	2049.0	2493.0	2514.9	2205.5	2074.5	1947.1	1969.0
16068.3	77.5°	8825.7	2627.7	1102.8	1412.1	1958.0	2285.6	2034.5	1859.8	1830.7	2034.5
4633.1	80°	2878.8	1317.5	764.3	989.9	1284.7	1870.7	1783.3	1583.2	1575.9	1623.2
971.7	82.5°	858.9	556.8	491.3	651.5	709.7	1434.0	1539.5	1197.4	1030.0	1084.6
323.9	85°	294.8	269.3	280.2	323.9	338.5	840.7	1077.3	793.4	749.7	826.2
72.8	87.5°	69.2	94.6	80.1	72.8	72.8	203.8	418.5	331.2	458.6	305.7
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°
8272.5
6540.2
5943.3
6023.3
6227.2
6401.9
6500.1
6485.6
6325.4
6056.1
5764.9
5499.3
5277.2
5179.0
5040.7
4793.2
4338.3
4087.1
4028.9
3865.1
3675.9
3461.1
3308.3
3119.0
3093.6
2998.9
2853.4
2682.3
2485.8
2223.7
1976.2
2005.4
1393.9
1121.0
815.2
294.8
0.0

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