

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: P952929

Luminaire Tested: **GALN-SB6C-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952929
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-SB6C-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44246 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

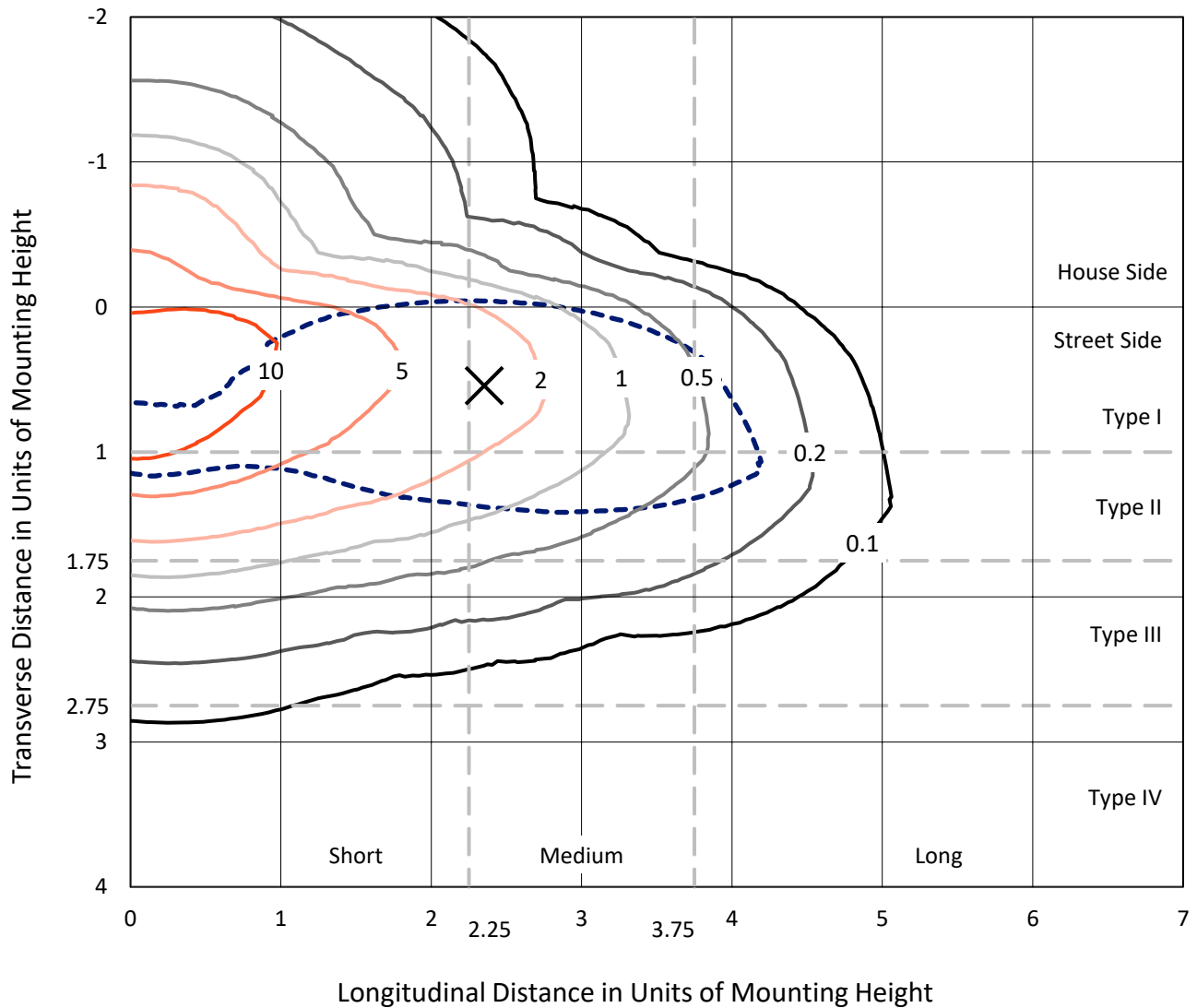
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

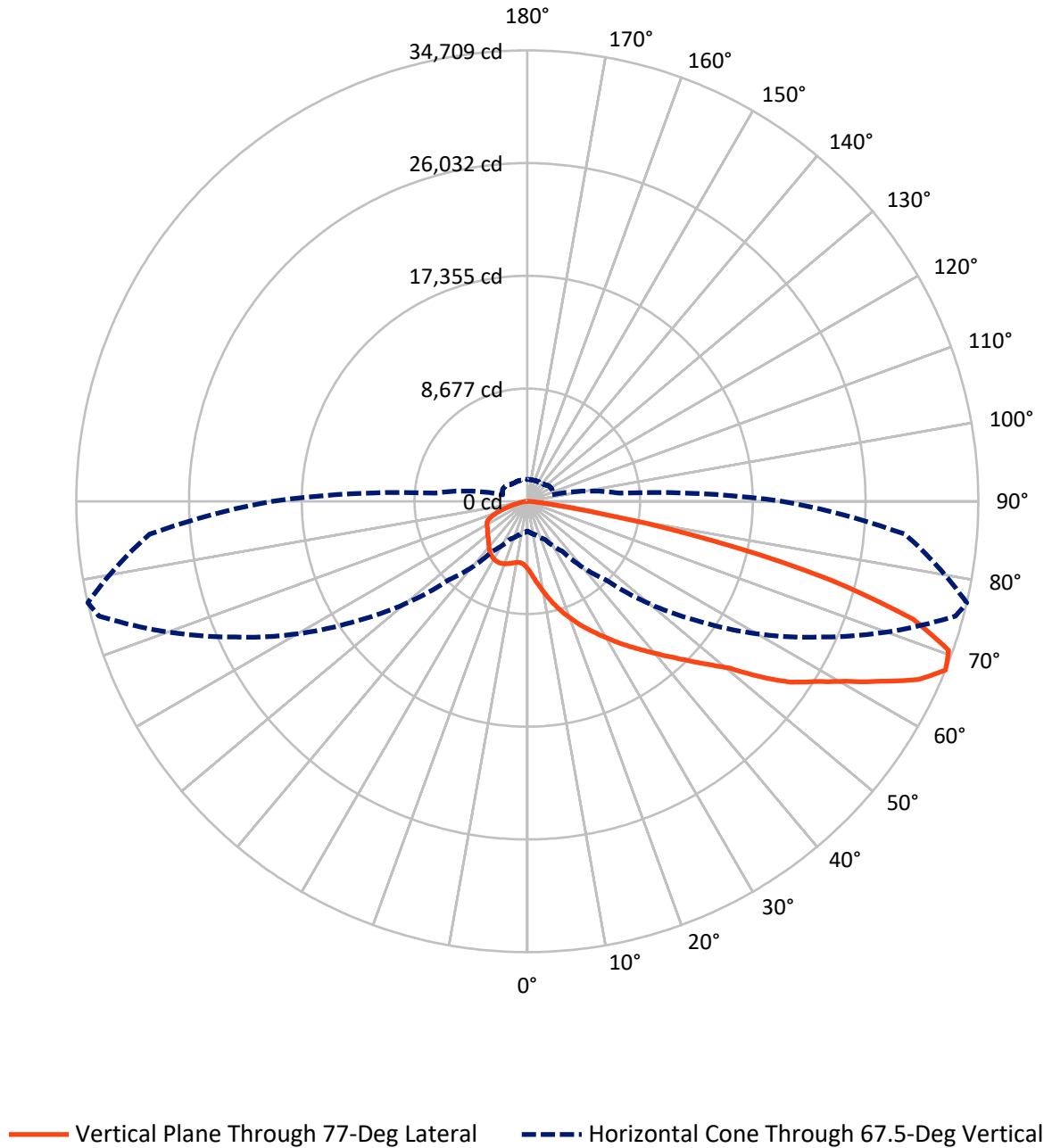
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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	8369.6	0.0	8369.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	35876.4	0.0	35876.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	44246.0	0.0	44246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.5	1.3
10°-20°	1999.1	4.5
20°-30°	3774.5	8.5
30°-40°	6080.7	13.7
40°-50°	8317.3	18.8
50°-60°	9381.9	21.2
60°-70°	8756.9	19.8
70°-80°	4800.2	10.8
80°-90°	579.0	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°	44246.0	100.0
0°-180°	44246.0	100.0

Coefficient of Utilization



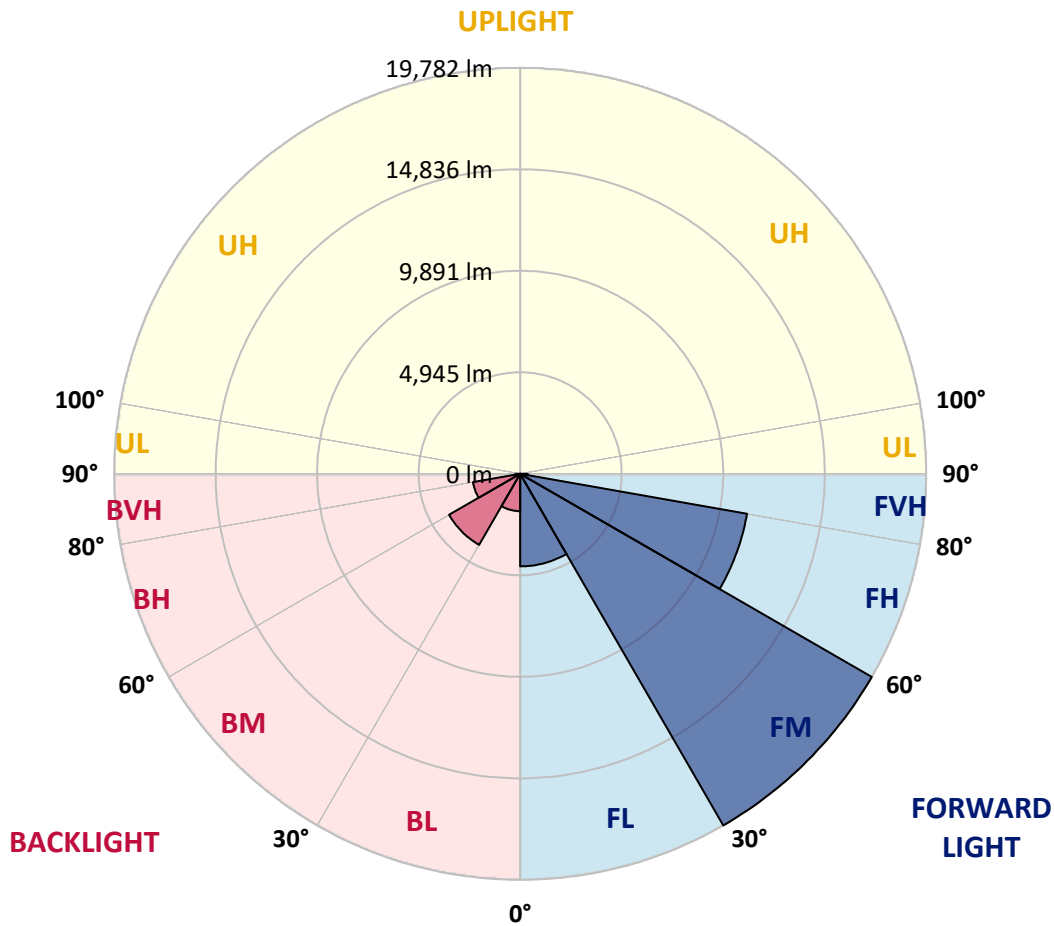
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4510.3	10.2			
FM (30°-60°)	19781.9	44.7			
FH (60°-80°)	11222.1	25.4			G4/12000
FVH (80°-90°)	362.1	0.8			G3/500
BL (0°-30°)	1819.7	4.1	B3/2500		
BM (30°-60°)	3997.9	9.0	B3/5000		
BH (60°-80°)	2335.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	216.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4
2.5°	6500.1	6545.8	6488.7	6488.7	6296.9	6196.4	6004.5	5858.3	5595.7	5550.0	
5°	7683.2	7740.3	7660.4	7626.1	7400.0	7192.2	6870.1	6552.7	6084.5	6036.5	
7.5°	8599.1	8672.2	8601.4	8564.8	8363.8	8130.9	7754.0	7310.9	6650.9	6557.2	
10°	9345.9	9357.4	9334.5	9348.2	9190.6	8998.8	8612.8	8096.6	7272.1	7144.2	
12.5°	9768.5	9821.0	9866.7	9948.9	9921.5	9802.7	9455.6	8838.9	7929.9	7765.4	
15°	9967.2	10058.5	10161.3	10350.9	10503.9	10533.6	10268.7	9636.0	8599.1	8400.4	
17.5°	10038.0	10124.8	10286.9	10561.0	10889.9	11111.4	10992.7	10410.3	9261.4	9033.0	
20°	10396.6	10421.7	10519.9	10780.3	11136.6	11504.3	11593.4	11154.8	9916.9	9658.8	
22.5°	11164.0	11113.7	11141.1	11259.9	11515.7	11872.0	12075.3	11812.6	10590.7	10293.8	
25°	12431.6	12285.4	12139.2	12002.2	12132.4	12333.4	12564.0	12470.4	11296.4	10919.6	
27.5°	14032.6	13854.5	13532.4	13082.5	12924.9	12995.7	13098.5	13080.2	11949.7	11568.2	
30°	15608.6	15400.7	15017.0	14366.1	13950.4	13763.1	13685.5	13632.9	12660.0	12253.4	
32.5°	16867.0	16702.6	16325.7	15597.1	14994.2	14674.4	14416.3	14229.0	13402.2	12995.7	
35°	17967.9	17814.9	17383.2	16588.4	15932.9	15592.6	15254.5	14854.8	14174.2	13763.1	
37.5°	18972.8	18819.8	18228.2	17401.5	16741.4	16506.1	16204.7	15526.3	14948.5	14560.2	
40°	19607.8	19573.5	19020.8	18084.4	17399.2	17282.7	17182.2	16305.2	15807.3	15446.4	
42.5°	19769.9	19845.3	19406.8	18637.1	17983.9	17890.2	18125.5	17186.8	16771.1	16426.2	
45°	19379.4	19596.3	19308.6	18785.5	18399.5	18349.3	18961.4	18150.6	17837.7	17522.5	
47.5°	18390.4	18758.1	18639.4	18566.3	18511.5	18728.4	19696.8	19173.8	19045.9	18771.8	
50°	16394.2	17090.8	17298.7	17760.0	18289.9	19023.1	20366.0	20290.7	20457.4	20181.0	
52.5°	12943.2	13902.4	15108.4	16264.0	17609.3	18924.9	21101.5	21894.0	22597.5	22446.7	
55°	10684.3	11116.0	12043.3	14162.8	16289.2	18511.5	21432.6	23189.0	24721.5	24586.8	
57.5°	8948.5	9334.5	9905.5	11675.6	14293.0	17572.8	21638.2	23979.2	26176.4	26162.7	
60°	7087.1	7495.9	8080.6	9334.5	11961.1	15951.1	21592.5	24879.1	28033.3	28147.5	
62.5°	4985.9	5435.8	6084.5	7253.8	9578.9	13849.9	20660.7	25530.1	30219.0	30529.6	
65°	3277.5	3574.4	4063.2	5072.7	7137.4	11148.0	18881.5	25614.6	32557.8	33083.1	
67.5°	2297.7	2411.9	2699.6	3247.8	4704.9	8548.8	16047.1	24739.8	34117.7	34709.3	
70°	1792.9	1850.0	1996.2	2215.4	2955.4	5748.7	12296.8	22465.0	33784.3	34400.9	
72.5°	1548.5	1603.3	1658.2	1685.6	1982.5	3549.3	8329.6	18783.2	30643.8	31061.8	
75°	1404.6	1418.3	1464.0	1454.9	1512.0	2302.2	4807.7	13685.5	24178.0	24034.1	
77.5°	1180.8	1199.1	1274.4	1263.0	1343.0	1573.6	2496.4	8832.1	15674.8	14697.3	
80°	1000.4	1009.5	1091.7	1078.0	1167.1	1139.7	1274.4	4501.7	6648.6	5632.2	
82.5°	347.2	429.4	833.6	858.8	890.7	689.8	735.4	1836.3	2030.4	1555.4	
85°	169.0	180.4	424.8	603.0	600.7	347.2	358.6	655.5	639.5	502.5	
87.5°	27.4	34.3	50.2	235.2	187.3	91.4	123.3	127.9	132.5	114.2	
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°
5191.4	0°	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4	5191.4
5376.4	2.5°	5248.5	5134.3	4894.5	4673.0	4499.4	4332.7	4239.0	4159.1	4113.4	4104.3
5627.7	5°	5390.1	5154.9	4718.7	4350.9	4111.1	3933.0	3839.3	3779.9	3750.3	3732.0
5965.7	7.5°	5593.4	5248.5	4627.3	4209.3	3958.1	3830.2	3782.2	3773.1	3770.8	3773.1
6374.5	10°	5874.3	5401.6	4618.2	4175.1	3964.9	3894.1	3891.9	3894.1	3903.3	3905.6
6819.9	12.5°	6178.1	5559.1	4654.7	4204.8	4051.7	4012.9	4006.1	4003.8	4010.6	4015.2
7269.8	15°	6509.3	5767.0	4716.4	4268.7	4147.7	4106.6	4099.7	4086.0	4083.7	4081.4
7742.6	17.5°	6849.6	5972.5	4784.9	4337.2	4209.3	4152.2	4127.1	4095.1	4070.0	4063.2
8231.4	20°	7194.5	6175.8	4832.8	4371.5	4213.9	4134.0	4083.7	4028.9	3985.5	3960.4
8724.7	22.5°	7562.2	6388.2	4862.5	4362.4	4172.8	4063.2	3971.8	3907.8	3841.6	3798.2
9222.6	25°	7920.8	6573.2	4860.3	4314.4	4092.8	3953.5	3837.0	3754.8	3663.5	3617.8
9736.5	27.5°	8265.6	6740.0	4803.2	4229.9	3978.7	3823.3	3684.0	3585.8	3496.7	3453.3
10255.0	30°	8621.9	6879.3	4714.1	4106.6	3843.9	3672.6	3519.6	3435.1	3355.1	3314.0
10803.1	32.5°	8975.9	7007.2	4588.5	3953.5	3688.6	3524.1	3373.4	3295.7	3247.8	3247.8
11392.4	35°	9350.5	7096.2	4421.7	3775.4	3524.1	3366.6	3247.8	3202.1	3197.5	3170.1
12015.9	37.5°	9745.6	7153.3	4218.5	3592.7	3362.0	3213.5	3177.0	3122.2	3076.5	3017.1
12701.1	40°	10161.3	7210.4	3974.1	3403.1	3190.7	3108.5	3092.5	3019.4	2889.2	2743.0
13477.6	42.5°	10666.1	7249.3	3720.6	3213.5	3010.3	2982.8	3005.7	2880.1	2672.2	2562.6
14414.0	45°	11250.8	7313.2	3487.6	3026.2	2825.3	2825.3	2921.2	2756.7	2585.4	2516.9
15482.9	47.5°	12009.0	7461.7	3270.6	2820.7	2654.0	2699.6	2733.9	2608.3	2512.4	2427.8
16784.8	50°	13105.3	7818.0	3046.8	2612.8	2523.8	2615.1	2567.2	2494.1	2382.2	2313.6
18854.1	52.5°	14466.6	8028.1	2848.1	2425.6	2411.9	2503.2	2434.7	2366.2	2281.7	2190.3
20423.1	55°	15393.9	8066.9	2681.4	2288.5	2336.5	2327.4	2302.2	2240.6	2194.9	2073.8
21971.7	57.5°	16430.8	8144.6	2544.3	2206.3	2288.5	2188.0	2178.9	2126.4	2067.0	1984.8
23860.5	60°	17671.0	8265.6	2425.6	2174.3	2247.4	2096.7	2051.0	2030.4	1971.1	1929.9
26133.0	62.5°	19023.1	8375.3	2304.5	2178.9	2199.4	2007.6	1939.1	1932.2	1895.7	1882.0
28266.2	65°	19945.8	8076.1	2153.8	2174.3	2124.1	1916.2	1829.4	1827.2	1797.5	1792.9
29191.2	67.5°	19623.7	7128.2	1950.5	2110.4	2046.4	1824.9	1729.0	1719.8	1681.0	1683.3
28225.1	70°	18011.3	5776.1	1669.6	1952.8	1950.5	1742.7	1623.9	1594.2	1541.7	1550.8
24541.1	72.5°	14987.3	4280.1	1292.7	1690.1	1797.5	1667.3	1502.8	1454.9	1388.6	1397.8
18116.3	75°	10823.7	2909.8	941.0	1285.9	1564.5	1578.2	1384.1	1301.9	1221.9	1235.6
10083.7	77.5°	5538.6	1649.0	692.0	886.2	1228.8	1434.3	1276.7	1167.1	1148.8	1276.7
2907.5	80°	1806.6	826.8	479.6	621.2	806.2	1174.0	1119.1	993.5	989.0	1018.6
609.8	82.5°	539.0	349.4	308.3	408.8	445.4	899.9	966.1	751.4	646.4	680.6
203.3	85°	185.0	169.0	175.9	203.3	212.4	527.6	676.1	497.9	470.5	518.5
45.7	87.5°	43.4	59.4	50.2	45.7	45.7	127.9	262.7	207.8	287.8	191.9
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>
5191.4
4104.3
3729.7
3779.9
3907.8
4017.5
4079.1
4070.0
3969.5
3800.5
3617.8
3451.1
3311.7
3250.1
3163.3
3008.0
2722.5
2564.9
2528.3
2425.6
2306.8
2172.0
2076.1
1957.3
1941.4
1882.0
1790.6
1683.3
1559.9
1395.5
1240.2
1258.5
874.8
703.5
511.6
185.0
0.0

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