

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: P942395

Luminaire Tested: **GALN-SB6B-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6B-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32363 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

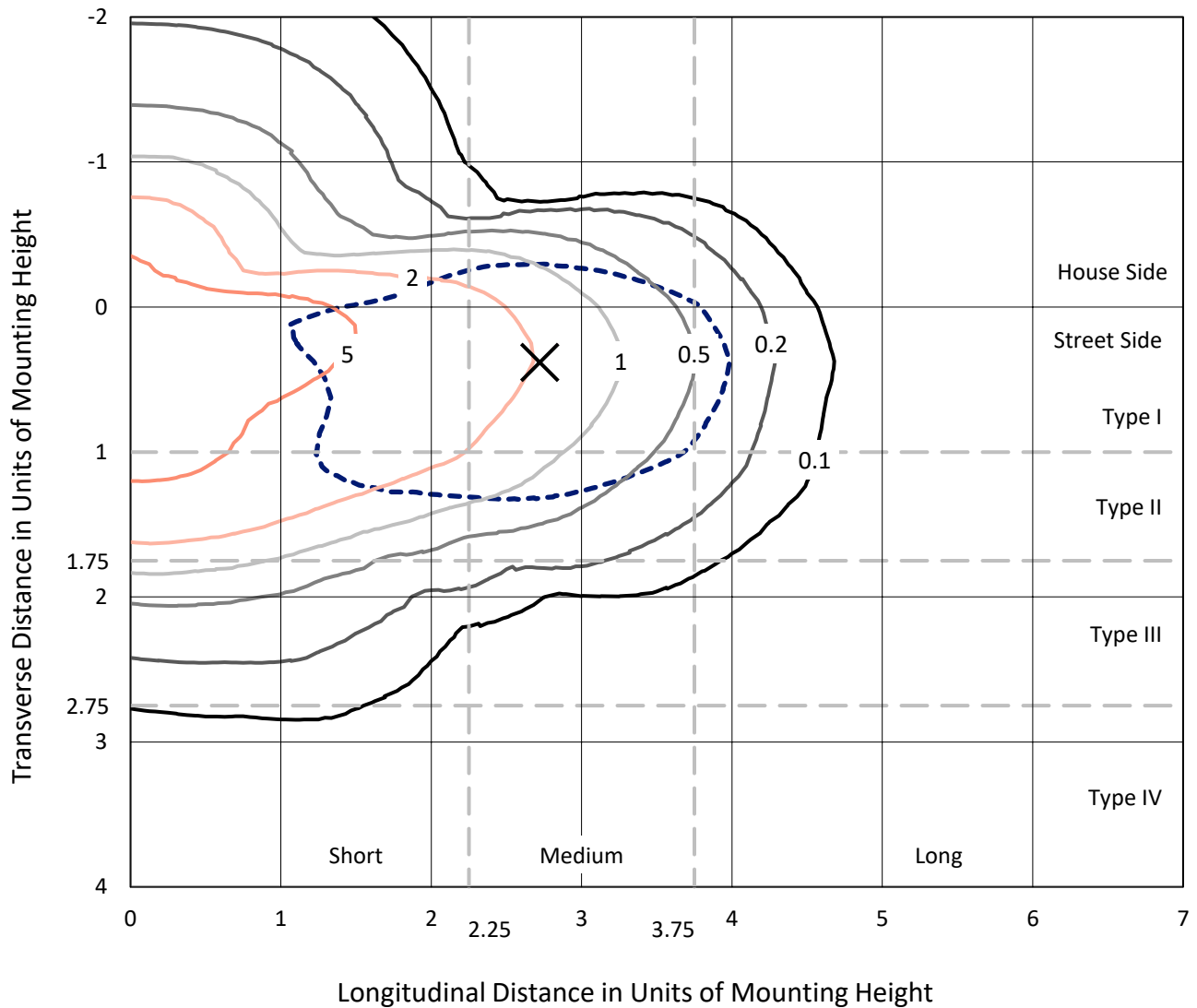
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

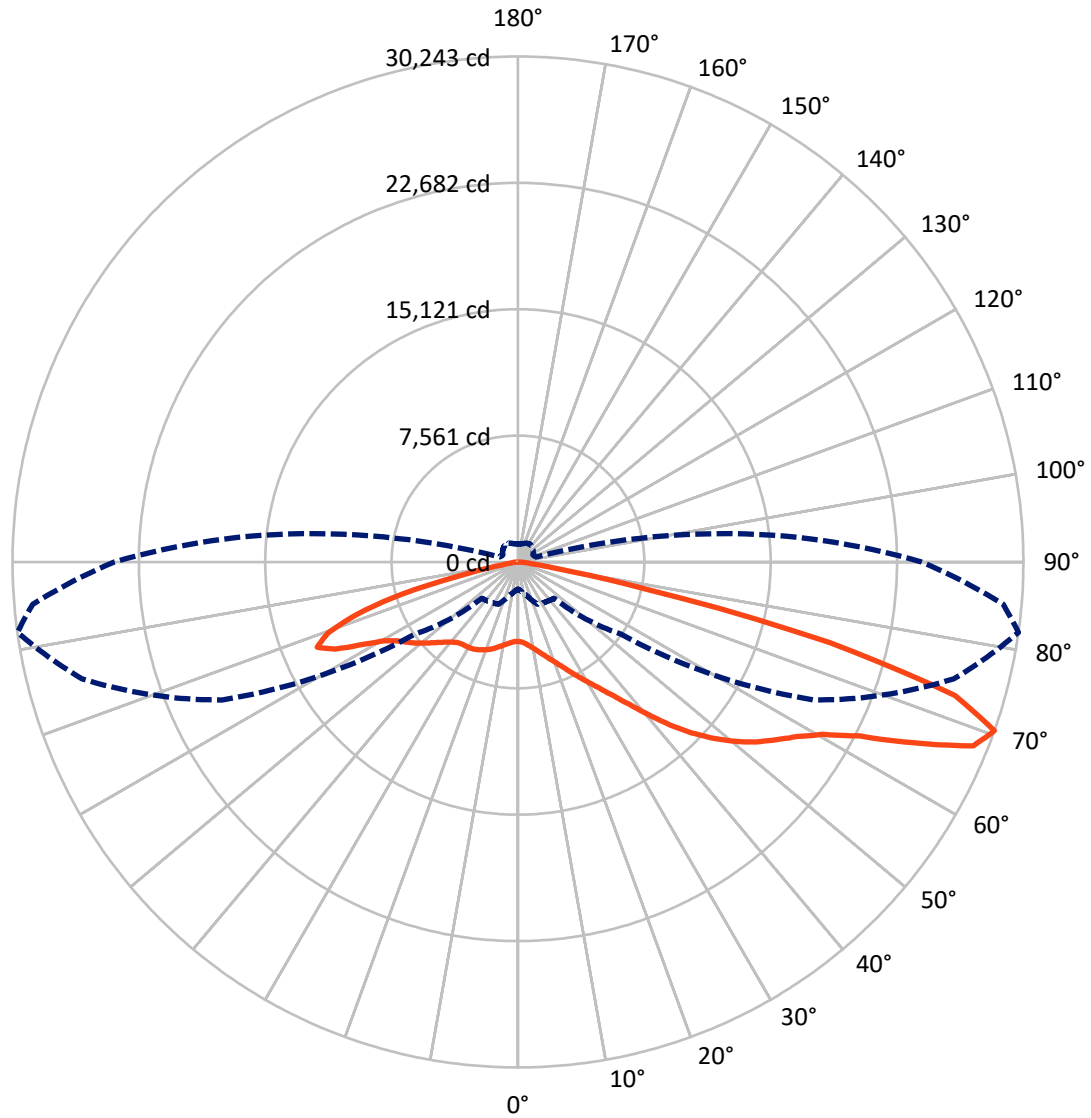
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7978.3	0.0	7978.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	24384.7	0.0	24384.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	32363.0	0.0	32363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	1.4
10°-20°	1287.1	4.0
20°-30°	2153.2	6.7
30°-40°	3363.9	10.4
40°-50°	5357.4	16.6
50°-60°	7455.4	23.0
60°-70°	7798.7	24.1
70°-80°	4076.0	12.6
80°-90°	423.3	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°	32363.0	100.0
0°-180°	32363.0	100.0

Coefficient of Utilization



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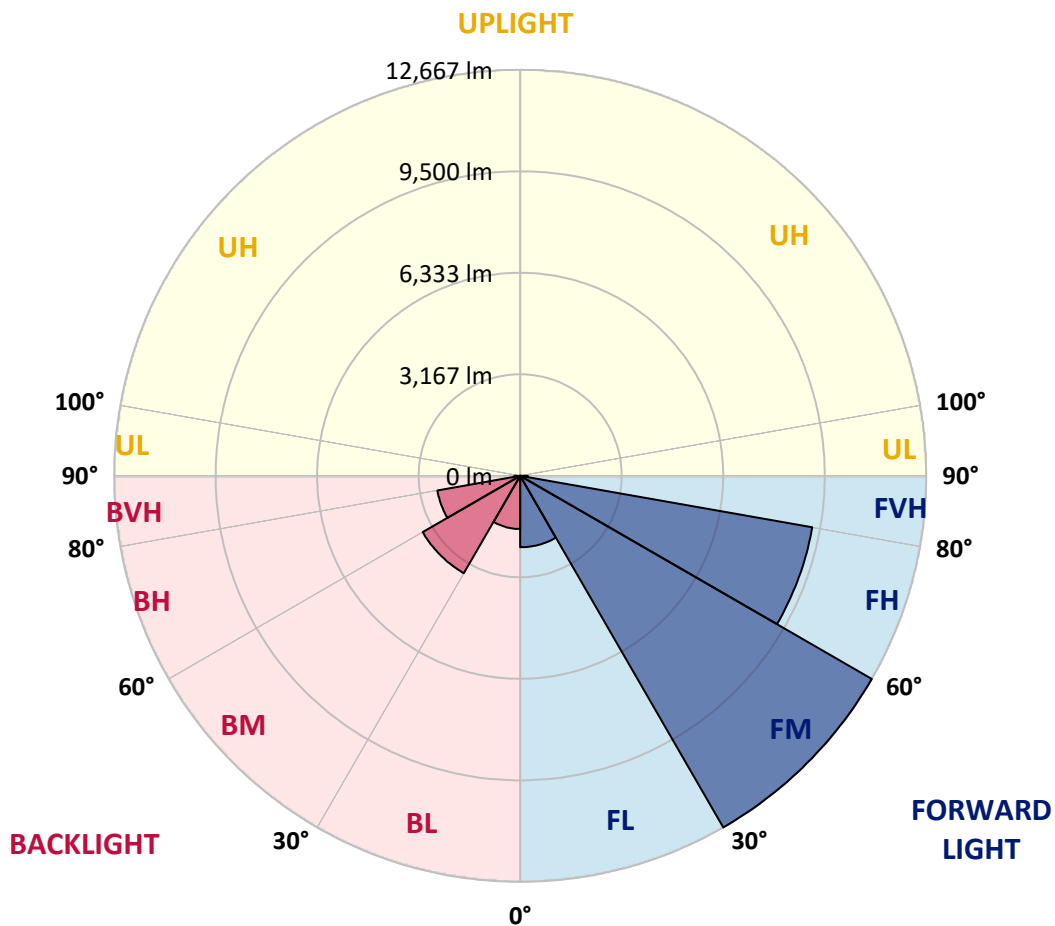
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2228.6	6.9			
FM (30°-60°)	12666.6	39.1			
FH (60°-80°)	9252.7	28.6			G4/12000
FVH (80°-90°)	236.9	0.7			G3/500
BL (0°-30°)	1659.8	5.1	B3/2500		
BM (30°-60°)	3510.1	10.8	B3/5000		
BH (60°-80°)	2622.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	186.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8
2.5°	4858.2	4885.6	4877.1	4868.5	4868.5	4856.4	4854.7	4837.6	4823.8	4801.5
5°	4920.0	4949.2	4945.7	4952.6	4974.9	4980.1	4985.2	4974.9	4947.5	4920.0
7.5°	4865.0	4897.7	4908.0	4949.2	5017.9	5079.7	5126.1	5144.9	5119.2	5079.7
10°	4679.6	4715.6	4751.7	4849.6	4971.5	5117.5	5241.1	5315.0	5309.8	5272.0
12.5°	4303.5	4341.3	4418.5	4609.2	4832.4	5090.0	5320.1	5474.7	5527.9	5500.4
15°	4003.0	4035.6	4094.0	4289.7	4580.0	4971.5	5349.3	5649.8	5785.5	5770.0
17.5°	3994.4	4008.1	4044.2	4136.9	4360.2	4786.0	5318.4	5821.5	6080.9	6079.1
20°	4145.5	4150.6	4171.3	4190.1	4317.2	4645.2	5239.4	5964.1	6412.3	6412.3
22.5°	4355.0	4351.6	4372.2	4355.0	4416.8	4633.2	5189.6	6089.4	6781.5	6809.0
25°	4669.3	4652.1	4646.9	4607.4	4619.5	4744.8	5244.5	6232.0	7219.4	7276.1
27.5°	5088.3	5060.8	5041.9	4950.9	4920.0	4974.9	5412.8	6403.7	7707.1	7805.0
30°	5634.4	5584.6	5557.1	5399.1	5287.5	5296.1	5667.0	6632.1	8217.1	8375.1
32.5°	6379.7	6302.4	6228.5	5969.2	5764.9	5697.9	5995.0	6948.1	8770.1	9022.5
35°	7214.3	7152.4	7073.4	6673.3	6359.1	6204.5	6438.0	7389.4	9417.5	9817.6
37.5°	8017.9	7964.7	8002.5	7463.3	7058.0	6833.0	7018.5	7981.9	10216.0	10806.8
40°	8849.1	8807.9	8813.0	8297.9	7825.6	7573.2	7722.6	8725.5	11131.4	11983.1
42.5°	9752.4	9721.5	9618.4	9161.6	8631.0	8395.7	8533.1	9584.1	12113.6	13322.6
45°	10763.9	10745.0	10648.8	10125.0	9517.1	9252.7	9438.1	10532.0	13101.1	14583.1
47.5°	11637.9	11653.4	11641.4	11200.0	10569.8	10181.7	10403.2	11521.2	14019.8	15768.0
50°	12058.7	12139.4	12257.9	12120.5	11729.0	11334.0	11376.9	12476.0	14895.6	16879.1
52.5°	11838.9	11991.7	12314.6	12534.4	12685.5	12603.1	12488.0	13423.9	15719.9	17881.9
55°	11019.7	11234.4	11770.2	12300.8	13071.9	13671.2	13822.3	14474.9	16523.6	18764.6
57.5°	9527.4	9876.0	10356.9	11430.2	12728.4	14188.1	15378.2	15932.8	17375.4	19707.4
60°	6968.7	7435.8	8033.4	9630.5	11526.3	13911.6	16702.2	18172.2	18586.0	20928.4
62.5°	4459.8	4748.3	5297.8	6802.1	8981.3	12494.9	17107.5	20971.3	20638.2	22930.7
65°	3053.3	3238.8	3741.9	4586.8	5806.1	9300.7	16022.1	23069.8	23897.5	26104.2
67.5°	2218.7	2359.5	2788.8	3529.0	3783.1	5503.9	12433.0	22973.7	27065.9	29373.9
70°	1617.7	1717.3	2077.9	2788.8	2910.8	3061.9	7532.0	19528.8	26997.2	30242.9
72.5°	1198.7	1267.3	1509.5	2163.8	2356.1	2067.6	3728.2	14193.2	23198.6	27354.4
75°	867.2	918.7	1097.3	1655.4	1885.6	1574.7	1859.8	8294.4	16181.8	19242.0
77.5°	662.9	702.4	819.1	1212.4	1509.5	1181.5	1154.0	3815.8	7672.8	7710.5
80°	532.4	558.1	621.7	853.5	1157.4	884.4	752.2	1540.4	2424.8	2052.1
82.5°	391.5	434.5	525.5	599.3	827.7	609.6	458.5	777.9	922.2	793.4
85°	223.2	252.4	317.7	429.3	528.9	372.6	262.7	345.2	429.3	352.0
87.5°	79.0	103.0	111.6	168.3	230.1	154.6	101.3	99.6	140.8	104.8
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°
4744.8	0°	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8	4744.8
4796.3	2.5°	4779.2	4770.6	4736.2	4689.9	4641.8	4595.4	4580.0	4547.3	4525.0	4513.0
4908.0	5°	4875.3	4847.9	4767.1	4664.1	4555.9	4439.1	4356.7	4281.2	4226.2	4174.7
5060.8	7.5°	5012.7	4964.6	4825.5	4645.2	4452.9	4258.8	4114.6	4004.7	3930.8	3882.8
5239.4	10°	5172.4	5098.6	4885.6	4616.0	4318.9	4040.7	3870.7	3776.3	3729.9	3704.2
5443.7	12.5°	5356.2	5251.4	4947.5	4549.1	4114.6	3796.9	3680.1	3652.6	3654.4	3656.1
5701.3	15°	5582.8	5436.9	4997.3	4403.1	3848.4	3609.7	3589.1	3633.7	3680.1	3702.4
5993.3	17.5°	5838.7	5632.6	5005.8	4162.7	3587.4	3489.5	3554.8	3650.9	3721.3	3752.2
6319.6	20°	6113.5	5831.9	4944.0	3822.6	3372.7	3391.6	3508.4	3632.0	3709.3	3748.8
6692.2	22.5°	6427.7	6044.8	4796.3	3465.5	3197.6	3285.1	3422.5	3542.7	3623.4	3662.9
7130.1	25°	6786.7	6283.5	4564.5	3164.9	3046.4	3164.9	3302.3	3401.9	3467.2	3503.2
7619.5	27.5°	7185.1	6532.5	4255.4	2926.2	2914.2	3041.3	3154.6	3231.9	3266.2	3293.7
8139.9	30°	7585.2	6759.2	3881.0	2745.9	2799.2	2919.4	3000.1	3034.4	3044.7	3049.9
8720.3	32.5°	8017.9	6954.9	3487.8	2596.5	2689.2	2800.9	2849.0	2864.4	2816.3	2783.7
9424.4	35°	8541.7	7164.5	3103.1	2478.0	2581.1	2677.2	2692.7	2678.9	2622.3	2555.3
10307.1	37.5°	9189.1	7425.5	2795.7	2393.9	2479.7	2543.3	2524.4	2521.0	2526.1	2447.1
11368.3	40°	9982.5	7765.5	2570.8	2328.6	2397.3	2411.0	2357.8	2387.0	2412.8	2292.6
12532.6	42.5°	10863.5	8175.9	2428.2	2284.0	2328.6	2296.0	2213.6	2246.2	2242.8	2084.8
13702.1	45°	11761.6	8622.4	2378.4	2251.3	2265.1	2199.8	2108.8	2117.4	2045.3	1902.7
14823.5	47.5°	12654.6	9101.5	2409.3	2223.9	2186.1	2112.2	2041.8	2004.1	1897.6	1791.1
15898.5	50°	13530.4	9604.7	2522.7	2168.9	2077.9	2035.0	1983.4	1916.5	1803.1	1712.1
16915.1	52.5°	14342.6	10111.3	2649.7	2077.9	1942.2	1968.0	1935.4	1858.1	1746.5	1653.7
17876.8	55°	15112.0	10617.9	2699.6	1952.5	1815.2	1909.6	1890.7	1748.2	1614.2	1538.7
18883.1	57.5°	15950.0	11227.5	2644.6	1792.8	1712.1	1842.6	1770.5	1612.5	1535.2	1478.6
20193.4	60°	17110.9	12184.0	2526.1	1595.3	1614.2	1743.0	1619.4	1554.1	1470.0	1406.4
22158.0	62.5°	19039.4	13968.3	2335.5	1399.6	1499.2	1595.3	1547.3	1482.0	1396.1	1334.3
25516.9	65°	21890.1	16448.0	1976.6	1246.7	1370.4	1451.1	1470.0	1404.7	1315.4	1250.2
28460.3	67.5°	24294.2	18003.9	1495.7	1119.7	1238.2	1334.3	1387.6	1324.0	1229.6	1166.0
29149.0	70°	24162.0	16873.9	1142.0	994.3	1121.4	1219.3	1288.0	1238.2	1136.8	1076.7
26476.9	72.5°	21460.7	14116.0	923.9	867.2	1002.9	1099.1	1181.5	1143.7	1040.7	982.3
19396.6	75°	15766.3	10020.3	738.4	738.4	855.2	973.7	1064.7	1040.7	946.2	905.0
8143.3	77.5°	6645.8	4203.9	578.7	613.1	711.0	836.3	949.7	958.2	875.8	927.3
2153.5	80°	1767.1	1159.2	441.3	482.6	558.1	690.3	826.0	822.6	733.3	685.2
800.2	82.5°	673.2	456.8	314.3	340.0	403.6	528.9	654.3	674.9	585.6	506.6
314.3	85°	259.3	195.8	194.1	204.4	235.3	350.3	494.6	511.7	441.3	374.4
87.6	87.5°	67.0	58.4	72.1	68.7	108.2	187.2	283.3	293.7	269.6	156.3
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°
4744.8
4526.7
4195.3
3893.1
3711.0
3659.5
3700.7
3759.1
3759.1
3673.2
3513.5
3304.0
3061.9
2794.0
2558.7
2452.3
2296.0
2083.1
1907.9
1791.1
1705.3
1655.4
1531.8
1473.4
1403.0
1334.3
1253.6
1167.7
1081.9
982.3
893.0
841.5
637.1
506.6
386.4
223.2
0.0

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