

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: P955525

Luminaire Tested: **GALN-SB8B-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31484 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

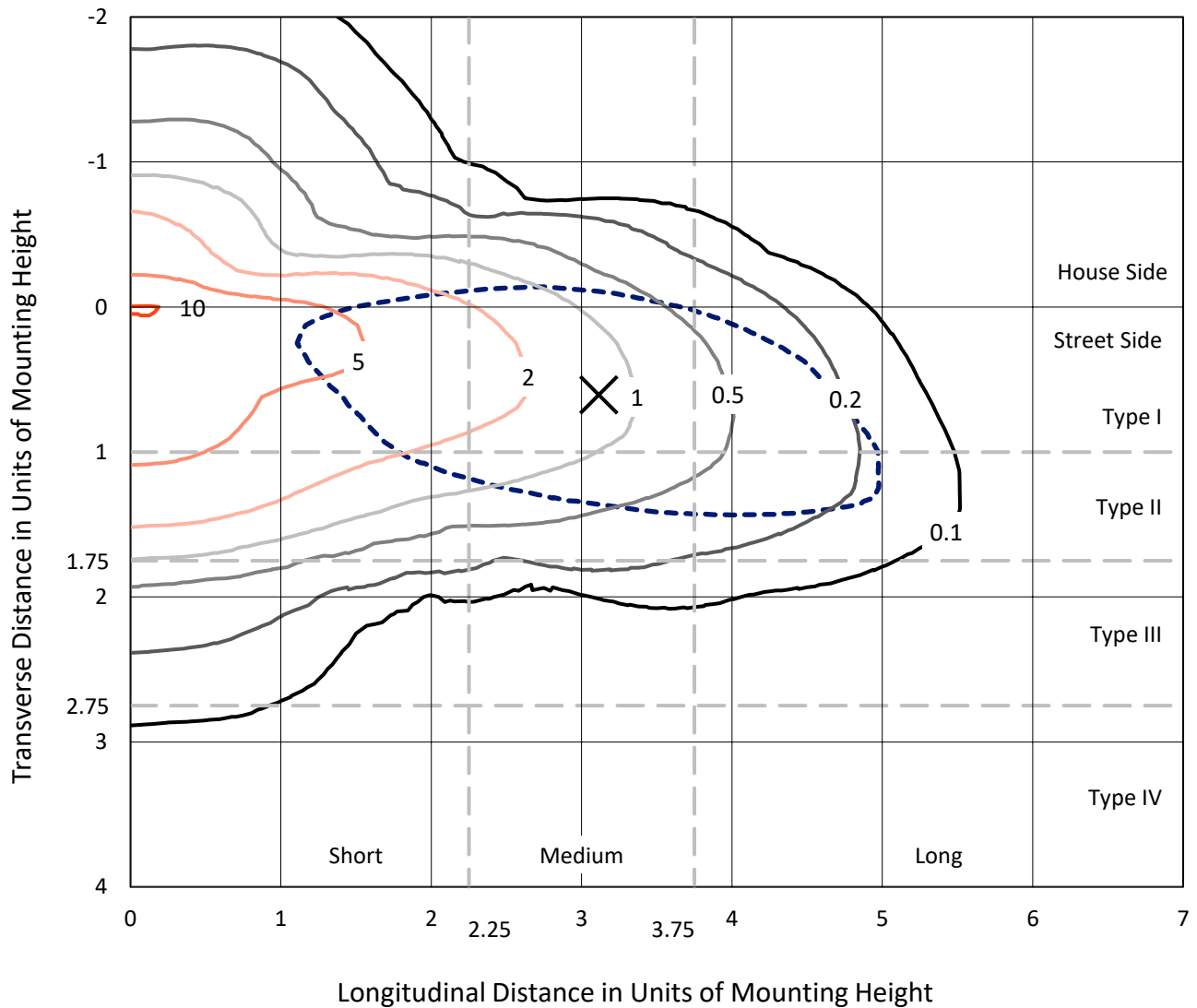
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

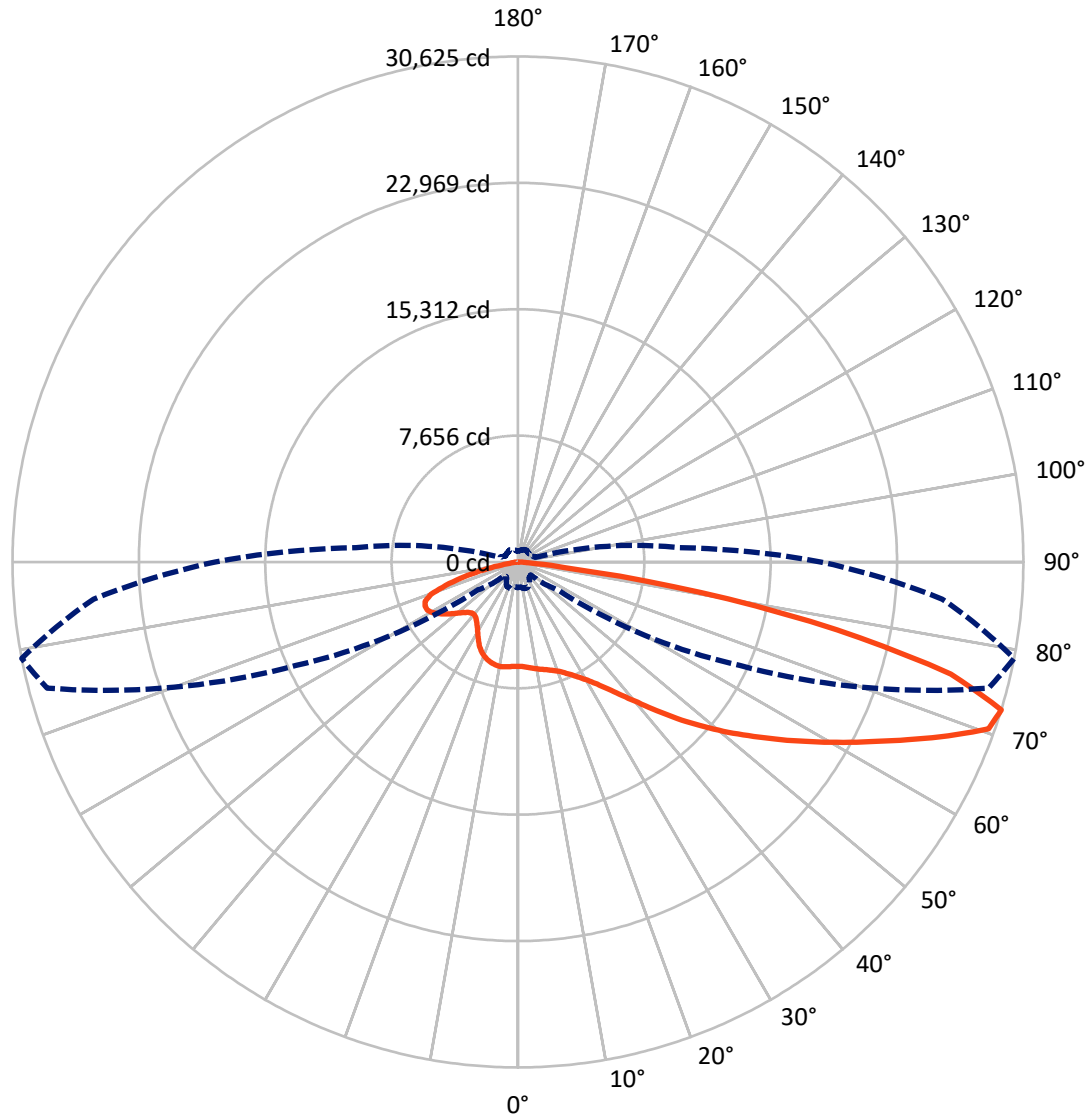
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6928.2	0.0	6928.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	24555.8	0.0	24555.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	31484.0	0.0	31484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.7	1.8
10°-20°	1499.9	4.8
20°-30°	2420.2	7.7
30°-40°	3632.4	11.5
40°-50°	5152.8	16.4
50°-60°	6507.3	20.7
60°-70°	6609.0	21.0
70°-80°	4504.3	14.3
80°-90°	584.4	1.9
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°	31484.0	100.0
0°-180°	31484.0	100.0



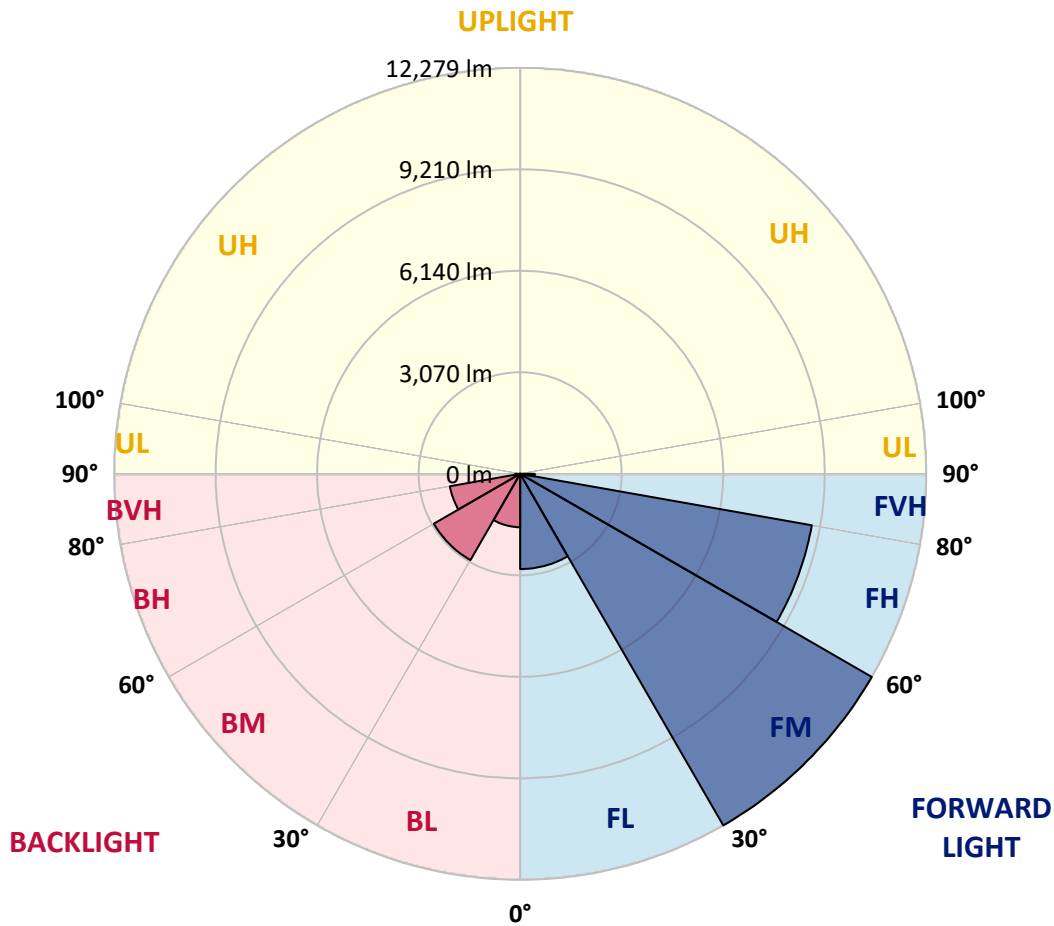
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2880.0	9.1			
FM (30°-60°)	12279.4	39.0			
FH (60°-80°)	8956.1	28.4			G4/12000
FVH (80°-90°)	440.2	1.4			G3/500
BL (0°-30°)	1613.8	5.1	B3/2500		
BM (30°-60°)	3013.0	9.6	B3/5000		
BH (60°-80°)	2157.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	144.2	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°	79°
0°	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1
2.5°	6323.4	6293.5	6311.8	6305.1	6313.5	6323.4	6326.8	6331.8	6348.4	6346.8
5°	6310.1	6280.1	6305.1	6296.8	6318.4	6341.8	6361.7	6380.1	6406.7	6418.4
7.5°	6281.8	6261.8	6286.8	6311.8	6351.8	6386.7	6415.0	6456.7	6495.0	6501.6
10°	6116.9	6101.9	6160.2	6225.2	6335.1	6430.0	6491.6	6539.9	6581.6	6588.2
12.5°	5945.4	5927.1	5992.0	6080.3	6258.5	6430.0	6559.9	6623.2	6659.9	6681.5
15°	5917.1	5902.1	5938.7	6015.3	6163.6	6385.1	6606.6	6723.1	6754.8	6779.8
17.5°	6053.7	6025.3	6040.3	6067.0	6153.6	6343.4	6643.2	6836.4	6884.7	6911.3
20°	6370.1	6330.1	6306.8	6253.5	6238.5	6350.1	6639.9	6972.9	7036.2	7069.5
22.5°	6791.4	6764.8	6714.8	6579.9	6433.4	6431.7	6703.2	7147.8	7266.0	7297.7
25°	7301.0	7261.1	7197.8	7014.6	6733.1	6593.2	6809.7	7371.0	7569.1	7577.5
27.5°	7887.2	7827.3	7740.7	7499.2	7119.5	6846.4	6972.9	7627.4	7917.2	7913.9
30°	8505.1	8445.1	8353.5	8060.4	7582.5	7187.8	7199.4	7903.9	8330.2	8311.9
32.5°	8956.4	8911.4	8893.1	8666.6	8115.4	7590.8	7459.2	8210.3	8839.8	8823.2
35°	9302.8	9244.5	9266.2	9151.3	8696.6	8042.1	7777.3	8575.0	9459.4	9457.7
37.5°	9645.9	9594.2	9612.6	9536.0	9234.5	8615.0	8165.4	9021.4	10227.1	10263.7
40°	9959.0	9904.0	9977.3	9905.7	9652.5	9224.5	8606.7	9526.0	11116.4	11186.4
42.5°	10147.2	10103.9	10225.4	10227.1	10015.6	9739.1	9091.3	10082.2	12145.6	12302.2
45°	10212.1	10197.1	10380.3	10418.6	10337.0	10037.2	9527.6	10688.4	13254.8	13534.5
47.5°	10142.2	10113.8	10367.0	10508.5	10573.5	10177.1	9889.0	11344.6	14387.2	14796.9
50°	9789.1	9734.1	10110.5	10408.6	10640.1	10268.7	10253.7	12102.3	15674.5	16122.5
52.5°	9154.6	9113.0	9541.0	10058.9	10493.6	10313.7	10663.4	12930.0	16896.9	17476.5
55°	8343.5	8288.6	8759.9	9436.0	10128.8	10298.7	11073.1	13856.0	18339.2	18927.0
57.5°	7057.9	6948.0	7544.2	8343.5	9534.3	10280.4	11499.4	14776.9	19804.7	20509.1
60°	5182.7	5019.5	5750.6	6698.2	8371.9	10102.2	12027.4	15809.4	21563.3	22197.8
62.5°	3017.7	2922.7	3400.7	4285.0	6310.1	9053.0	12323.8	17010.2	23292.0	23958.1
65°	2343.2	2316.5	2358.2	2426.5	3512.3	6778.1	11409.5	18180.9	25490.3	25956.6
67.5°	2143.3	2123.4	2141.7	2013.4	1782.0	3775.4	9026.4	18477.4	27845.1	28128.3
70°	1905.2	1881.9	1941.8	1831.9	1402.2	1717.0	5832.2	17401.5	29718.7	30249.9
72.5°	1552.1	1525.5	1665.4	1615.4	1180.8	1102.5	2929.4	14845.2	29522.2	30624.7
75°	1192.4	1177.4	1344.0	1385.6	962.6	867.7	1405.6	11034.8	25979.9	27090.7
77.5°	926.0	914.3	999.2	1150.8	776.1	672.8	864.3	6999.6	19578.2	19773.0
80°	694.5	661.2	739.4	891.0	604.5	491.3	586.2	4081.8	12375.4	11218.0
82.5°	434.7	418.0	483.0	594.5	426.3	338.1	381.4	2254.9	4959.5	2921.1
85°	248.1	241.5	263.1	339.7	231.5	194.8	218.2	995.9	906.0	622.9
87.5°	99.9	96.6	119.9	151.5	84.9	71.6	76.6	239.8	199.8	184.9
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°
6320.1	0°	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1	6320.1
6345.1	2.5°	6338.4	6338.4	6315.1	6278.5	6236.8	6210.2	6166.9	6155.2	6110.3	6097.0
6401.7	5°	6415.0	6401.7	6330.1	6226.9	6085.3	5955.4	5812.2	5722.2	5595.7	5550.7
6513.3	7.5°	6511.6	6475.0	6351.8	6125.3	5828.8	5537.4	5234.3	5004.5	4784.6	4706.4
6604.9	10°	6599.9	6548.3	6338.4	5942.1	5429.1	4924.5	4441.6	4103.5	3847.0	3742.1
6706.5	12.5°	6688.2	6593.2	6250.2	5637.3	4861.2	4176.8	3662.2	3399.0	3240.8	3114.3
6789.8	15°	6771.4	6638.2	6113.6	5229.3	4238.4	3543.9	3164.2	2954.4	2827.8	2744.5
6911.3	17.5°	6868.0	6676.5	5908.8	4711.4	3645.5	3105.9	2796.2	2669.6	2644.6	2634.6
7077.9	20°	7002.9	6711.5	5639.0	4131.8	3209.2	2756.2	2596.3	2584.7	2583.0	2578.0
7277.7	22.5°	7147.8	6753.1	5282.6	3605.5	2837.8	2538.0	2509.7	2486.4	2471.4	2469.8
7519.2	25°	7319.3	6766.4	4836.3	3174.2	2521.4	2434.8	2401.5	2366.5	2356.5	2356.5
7794.0	27.5°	7485.9	6721.5	4316.7	2799.5	2343.2	2339.9	2296.6	2284.9	2283.2	2288.2
8107.1	30°	7652.4	6636.5	3800.4	2453.1	2239.9	2239.9	2224.9	2233.3	2239.9	2256.6
8536.7	32.5°	7877.2	6546.6	3369.1	2196.6	2150.0	2133.4	2148.3	2165.0	2171.7	2193.3
9101.3	35°	8207.0	6483.3	3026.0	2056.7	2056.7	2035.1	2043.4	2040.1	2025.1	2015.1
9784.1	37.5°	8643.3	6480.0	2742.9	1991.8	1978.5	1975.1	1976.8	1955.2	1896.9	1826.9
10610.1	40°	9167.9	6569.9	2524.7	1946.8	1936.8	1956.8	1946.8	1888.5	1728.7	1607.1
11626.0	42.5°	9872.4	6826.4	2384.8	1891.9	1921.8	1946.8	1906.9	1705.3	1597.1	1515.5
12783.4	45°	10701.7	7242.7	2313.2	1833.6	1893.5	1923.5	1730.3	1642.1	1555.5	1457.2
14045.8	47.5°	11641.0	7767.3	2296.6	1778.6	1830.3	1848.6	1655.4	1615.4	1517.2	1410.6
15314.8	50°	12663.5	8388.5	2341.5	1713.7	1738.7	1675.4	1630.4	1593.8	1492.2	1387.3
16615.5	52.5°	13721.1	9073.0	2431.5	1625.4	1647.1	1577.1	1620.4	1588.8	1477.2	1335.6
17959.4	55°	14760.3	9762.5	2518.1	1522.2	1553.8	1488.8	1592.1	1568.8	1408.9	1249.0
19393.3	57.5°	15816.1	10448.6	2603.0	1430.6	1463.9	1403.9	1547.1	1515.5	1332.3	1169.1
20958.8	60°	16913.6	11114.7	2643.0	1342.3	1365.6	1325.6	1478.9	1423.9	1245.7	1087.5
22497.6	62.5°	17941.1	11669.3	2578.0	1254.0	1269.0	1252.4	1388.9	1315.6	1159.1	995.9
24101.4	65°	18972.0	11999.1	2378.2	1167.4	1170.8	1162.4	1262.4	1199.1	1057.5	916.0
25505.3	67.5°	19906.3	12183.9	2060.1	1074.2	1065.8	1062.5	1144.1	1072.5	959.3	836.0
26572.8	70°	20104.5	11714.3	1573.8	964.3	964.3	955.9	1014.2	940.9	851.0	751.1
25808.4	72.5°	18362.5	9854.0	1117.5	839.4	852.7	836.0	884.3	822.7	741.1	674.5
22242.8	75°	14806.9	7226.1	812.7	711.1	734.4	706.1	751.1	707.8	637.8	636.2
15328.1	77.5°	10173.8	4468.2	589.5	586.2	602.9	566.2	617.9	594.5	531.3	502.9
6671.5	80°	4341.6	1782.0	429.7	453.0	453.0	419.7	479.6	486.3	431.3	418.0
1287.3	82.5°	864.3	506.3	301.4	311.4	293.1	283.1	339.7	376.4	519.6	577.9
388.0	85°	259.8	186.5	181.5	169.9	149.9	151.5	199.8	378.0	466.3	266.5
128.2	87.5°	71.6	46.6	48.3	38.3	31.6	41.6	68.3	286.4	156.5	66.6
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>
6320.1
6118.6
5584.0
4716.4
3765.4
3155.9
2759.5
2641.3
2594.7
2488.1
2366.5
2301.6
2268.2
2211.6
2038.4
1828.6
1603.8
1512.2
1450.5
1402.2
1375.6
1325.6
1240.7
1165.8
1082.5
994.2
906.0
826.0
747.8
654.5
572.9
471.3
418.0
579.6
229.8
56.6
0.0

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