

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: P952501

Luminaire Tested: **GALN-SB6B-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952501
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-SB6B-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 30497 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

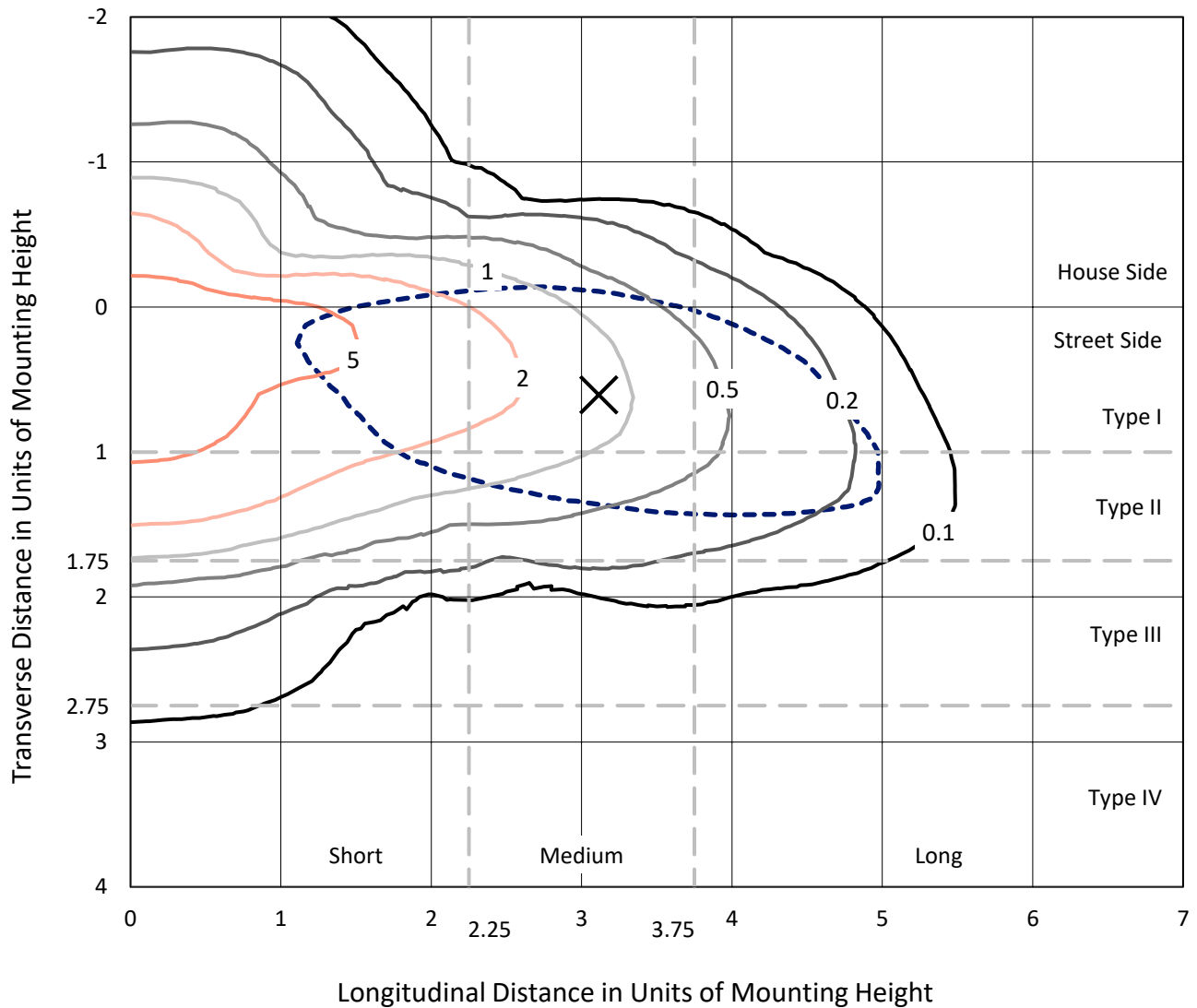
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

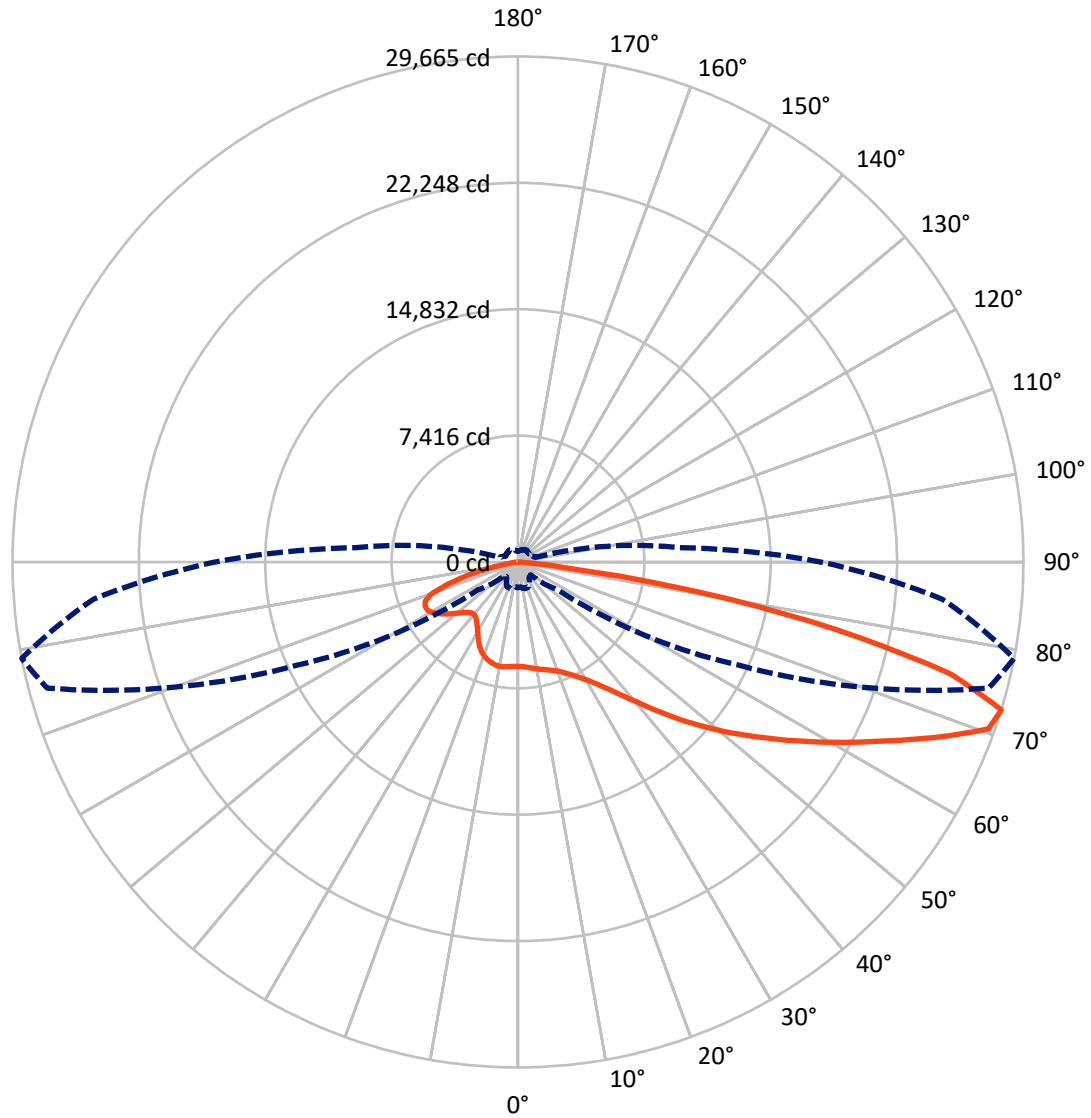
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	6711.0	0.0	6711.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23786.0	0.0	23786.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	30497.0	0.0	30497.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.7	1.8
10°-20°	1452.9	4.8
20°-30°	2344.3	7.7
30°-40°	3518.5	11.5
40°-50°	4991.2	16.4
50°-60°	6303.3	20.7
60°-70°	6401.8	21.0
70°-80°	4363.1	14.3
80°-90°	566.1	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°	30497.0	100.0
0°-180°	30497.0	100.0



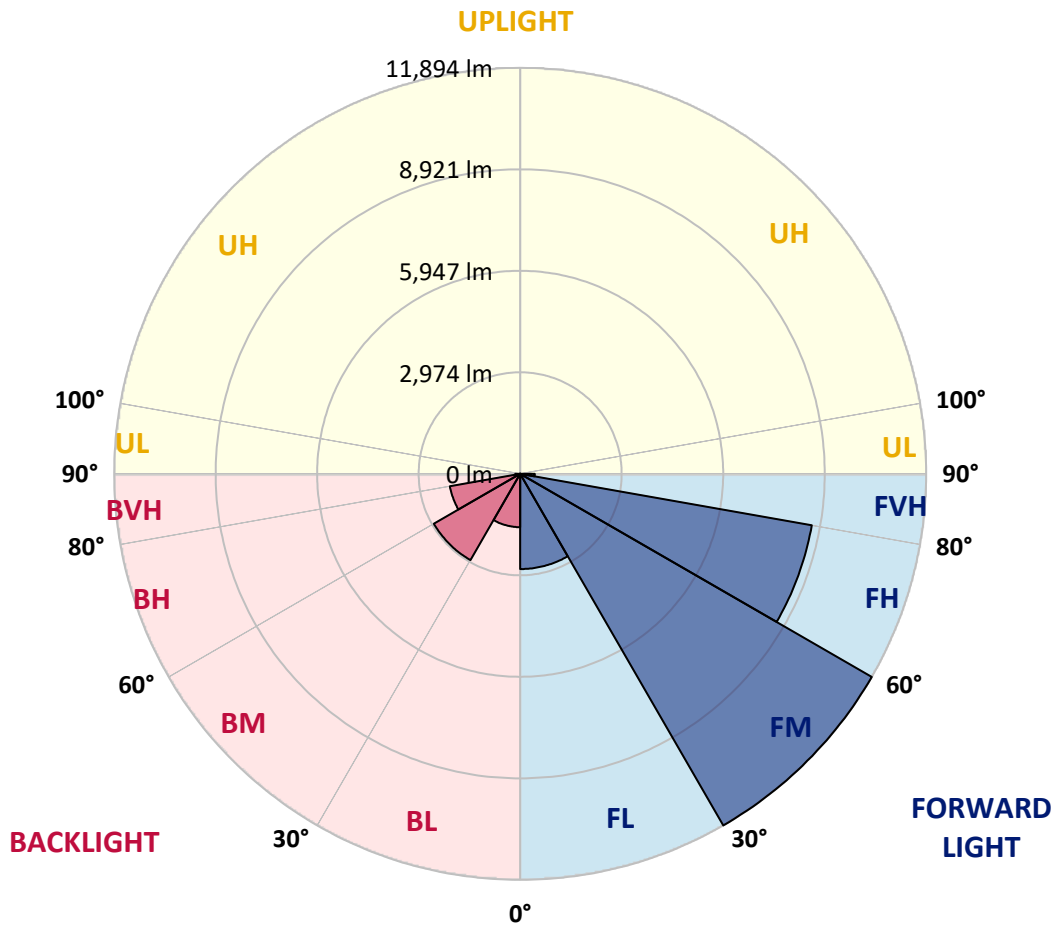
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2789.7	9.1			
FM (30°-60°)	11894.5	39.0			
FH (60°-80°)	8675.4	28.4			G4/12000
FVH (80°-90°)	426.4	1.4			G3/500
BL (0°-30°)	1563.2	5.1	B3/2500		
BM (30°-60°)	2918.6	9.6	B3/5000		
BH (60°-80°)	2089.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	139.6	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°	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0
2.5°	6125.2	6096.2	6113.9	6107.5	6115.5	6125.2	6128.4	6133.3	6149.4	6147.8
5°	6112.3	6083.3	6107.5	6099.4	6120.4	6143.0	6162.3	6180.1	6205.9	6217.2
7.5°	6084.9	6065.5	6089.7	6113.9	6152.6	6186.5	6213.9	6254.3	6291.4	6297.8
10°	5925.2	5910.7	5967.1	6030.0	6136.5	6228.5	6288.1	6334.9	6375.3	6381.7
12.5°	5759.0	5741.3	5804.2	5889.7	6062.3	6228.5	6354.3	6415.6	6451.1	6472.0
15°	5731.6	5717.1	5752.6	5826.8	5970.3	6184.9	6399.4	6512.4	6543.0	6567.2
17.5°	5863.9	5836.5	5851.0	5876.8	5960.7	6144.6	6434.9	6622.1	6668.8	6694.7
20°	6170.4	6131.7	6109.1	6057.5	6042.9	6151.0	6431.7	6754.3	6815.6	6847.9
22.5°	6578.5	6552.7	6504.3	6373.6	6231.7	6230.1	6493.0	6923.7	7038.3	7068.9
25°	7072.1	7033.4	6972.1	6794.7	6522.0	6386.5	6596.3	7139.9	7331.9	7339.9
27.5°	7640.0	7581.9	7498.0	7264.1	6896.3	6631.7	6754.3	7388.3	7669.0	7665.8
30°	8238.5	8180.4	8091.7	7807.7	7344.8	6962.4	6973.7	7656.1	8069.1	8051.3
32.5°	8675.6	8632.1	8614.3	8394.9	7861.0	7352.8	7225.4	7952.9	8562.7	8546.6
35°	9011.2	8954.7	8975.7	8864.4	8424.0	7790.0	7533.5	8306.2	9162.8	9161.2
37.5°	9343.5	9293.5	9311.2	9237.0	8945.0	8344.9	7909.4	8738.5	9906.5	9942.0
40°	9646.8	9593.5	9664.5	9595.1	9349.9	8935.4	8336.9	9227.3	10767.9	10835.7
42.5°	9829.0	9787.1	9904.9	9906.5	9701.6	9433.8	8806.3	9766.1	11764.9	11916.5
45°	9892.0	9877.4	10054.9	10092.0	10013.0	9722.6	9228.9	10353.3	12839.2	13110.2
47.5°	9824.2	9796.8	10042.0	10179.1	10242.0	9858.1	9579.0	10988.9	13936.2	14333.0
50°	9482.2	9429.0	9793.6	10082.3	10306.5	9946.8	9932.3	11722.9	15183.2	15617.1
52.5°	8867.6	8827.3	9241.9	9743.6	10164.6	9990.4	10329.1	12524.7	16367.2	16928.6
55°	8082.0	8028.8	8485.3	9140.2	9811.3	9975.8	10726.0	13421.6	17764.2	18333.7
57.5°	6836.6	6730.1	7307.7	8082.0	9235.4	9958.1	11138.9	14313.7	19183.8	19866.2
60°	5020.2	4862.1	5570.3	6488.2	8109.4	9785.5	11650.3	15313.8	20887.3	21502.0
62.5°	2923.1	2831.1	3294.1	4150.7	6112.3	8769.2	11937.5	16476.9	22561.8	23207.1
65°	2269.7	2243.9	2284.2	2350.4	3402.2	6565.6	11051.8	17611.0	24691.2	25142.9
67.5°	2076.2	2056.8	2074.5	1950.3	1726.1	3657.1	8743.4	17898.1	26972.2	27246.5
70°	1845.5	1822.9	1881.0	1774.5	1358.3	1663.2	5649.3	16856.0	28787.0	29301.6
72.5°	1503.5	1477.7	1613.2	1564.8	1143.7	1067.9	2837.6	14379.8	28596.7	29664.6
75°	1155.0	1140.5	1301.8	1342.2	932.4	840.5	1361.5	10688.9	25165.5	26241.4
77.5°	896.9	885.6	967.9	1114.7	751.7	651.7	837.2	6780.2	18964.4	19153.2
80°	672.7	640.4	716.2	863.0	585.6	475.9	567.8	3953.9	11987.5	10866.3
82.5°	421.0	404.9	467.8	575.9	413.0	327.5	369.4	2184.2	4804.0	2829.5
85°	240.4	233.9	254.9	329.1	224.2	188.7	211.3	964.7	877.6	603.3
87.5°	96.8	93.6	116.1	146.8	82.3	69.4	74.2	232.3	193.6	179.1
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°
6122.0	0°	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0	6122.0
6146.2	2.5°	6139.7	6139.7	6117.1	6081.7	6041.3	6015.5	5973.6	5962.3	5918.7	5905.8
6201.0	5°	6213.9	6201.0	6131.7	6031.6	5894.5	5768.7	5630.0	5542.9	5420.3	5376.7
6309.1	7.5°	6307.5	6272.0	6152.6	5933.2	5646.1	5363.8	5070.2	4847.6	4634.6	4558.8
6397.8	10°	6393.0	6343.0	6139.7	5755.8	5258.9	4770.1	4302.3	3974.9	3726.4	3624.8
6496.2	12.5°	6478.5	6386.5	6054.2	5460.6	4708.8	4045.8	3547.4	3292.5	3139.2	3016.6
6576.9	15°	6559.2	6430.1	5921.9	5065.4	4105.5	3432.8	3065.0	2861.8	2739.2	2658.5
6694.7	17.5°	6652.7	6467.2	5723.5	4563.7	3531.2	3008.6	2708.5	2585.9	2561.7	2552.0
6856.0	20°	6783.4	6501.1	5462.2	4002.3	3108.6	2669.8	2514.9	2503.6	2502.0	2497.2
7049.6	22.5°	6923.7	6541.4	5117.0	3492.5	2748.8	2458.5	2431.0	2408.5	2393.9	2392.3
7283.5	25°	7089.9	6554.3	4684.6	3074.7	2442.3	2358.5	2326.2	2292.3	2282.6	2282.6
7549.6	27.5°	7251.2	6510.8	4181.3	2711.7	2269.7	2266.5	2224.6	2213.3	2211.7	2216.5
7852.9	30°	7412.5	6428.5	3681.3	2376.2	2169.7	2169.7	2155.2	2163.3	2169.7	2185.8
8269.1	32.5°	7630.3	6341.4	3263.4	2127.8	2082.6	2066.5	2081.0	2097.1	2103.6	2124.5
8816.0	35°	7949.7	6280.1	2931.1	1992.3	1992.3	1971.3	1979.4	1976.1	1961.6	1951.9
9477.4	37.5°	8372.4	6276.8	2656.9	1929.4	1916.4	1913.2	1914.8	1893.9	1837.4	1769.6
10277.5	40°	8880.5	6364.0	2445.6	1885.8	1876.1	1895.5	1885.8	1829.3	1674.5	1556.7
11261.5	42.5°	9562.9	6612.4	2310.1	1832.6	1861.6	1885.8	1847.1	1651.9	1547.0	1468.0
12382.7	45°	10366.2	7015.7	2240.7	1776.1	1834.2	1863.2	1676.1	1590.6	1506.7	1411.5
13605.5	47.5°	11276.1	7523.8	2224.6	1722.9	1772.9	1790.6	1603.5	1564.8	1469.6	1366.4
14834.7	50°	12266.5	8125.5	2268.1	1660.0	1684.2	1622.8	1579.3	1543.8	1445.4	1343.8
16094.6	52.5°	13290.9	8788.6	2355.2	1574.5	1595.4	1527.7	1569.6	1539.0	1430.9	1293.8
17396.4	55°	14297.5	9456.4	2439.1	1474.4	1505.1	1442.2	1542.2	1519.6	1364.7	1209.9
18785.4	57.5°	15320.3	10121.0	2521.4	1385.7	1418.0	1359.9	1498.6	1468.0	1290.5	1132.4
20301.8	60°	16383.4	10766.3	2560.1	1300.2	1322.8	1284.1	1432.5	1379.3	1206.7	1053.4
21792.3	62.5°	17378.7	11303.5	2497.2	1214.7	1229.2	1213.1	1345.4	1274.4	1122.8	964.7
23345.8	65°	18377.2	11622.9	2303.6	1130.8	1134.1	1126.0	1222.8	1161.5	1024.4	887.2
24705.7	67.5°	19282.2	11802.0	1995.5	1040.5	1032.4	1029.2	1108.2	1038.9	929.2	809.8
25739.8	70°	19474.2	11347.0	1524.4	934.0	934.0	926.0	982.4	911.4	824.3	727.5
24999.3	72.5°	17786.8	9545.1	1082.4	813.0	825.9	809.8	856.6	796.9	717.9	653.3
21545.5	75°	14342.7	6999.5	787.2	688.8	711.4	684.0	727.5	685.6	617.8	616.2
14847.6	77.5°	9854.9	4328.1	571.1	567.8	584.0	548.5	598.5	575.9	514.6	487.2
6462.4	80°	4205.5	1726.1	416.2	438.8	438.8	406.5	464.6	471.0	417.8	404.9
1247.0	82.5°	837.2	490.4	292.0	301.7	283.9	274.2	329.1	364.6	503.3	559.8
375.9	85°	251.7	180.7	175.8	164.5	145.2	146.8	193.6	366.2	451.7	258.1
124.2	87.5°	69.4	45.2	46.8	37.1	30.7	40.3	66.1	277.5	151.6	64.5
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>
6122.0
5926.8
5409.0
4568.5
3647.4
3057.0
2673.0
2558.5
2513.3
2410.1
2292.3
2229.4
2197.1
2142.3
1974.5
1771.3
1553.5
1464.8
1405.1
1358.3
1332.5
1284.1
1201.8
1129.2
1048.6
963.1
877.6
800.1
724.3
634.0
554.9
456.5
404.9
561.4
222.6
54.8
0.0

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