

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: P951228

Luminaire Tested: **GALN-SB5B-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951228
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-SB5B-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20995 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

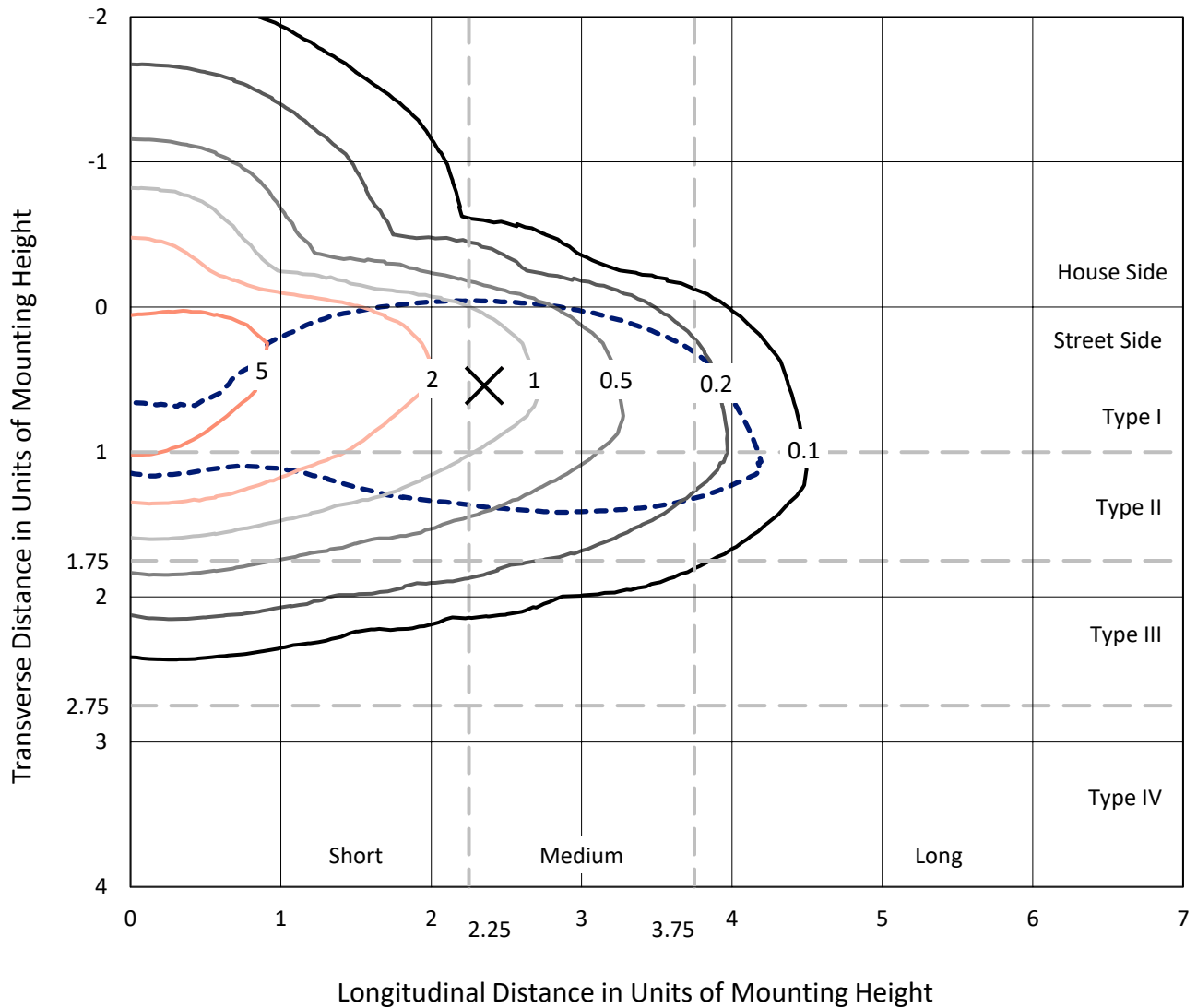
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

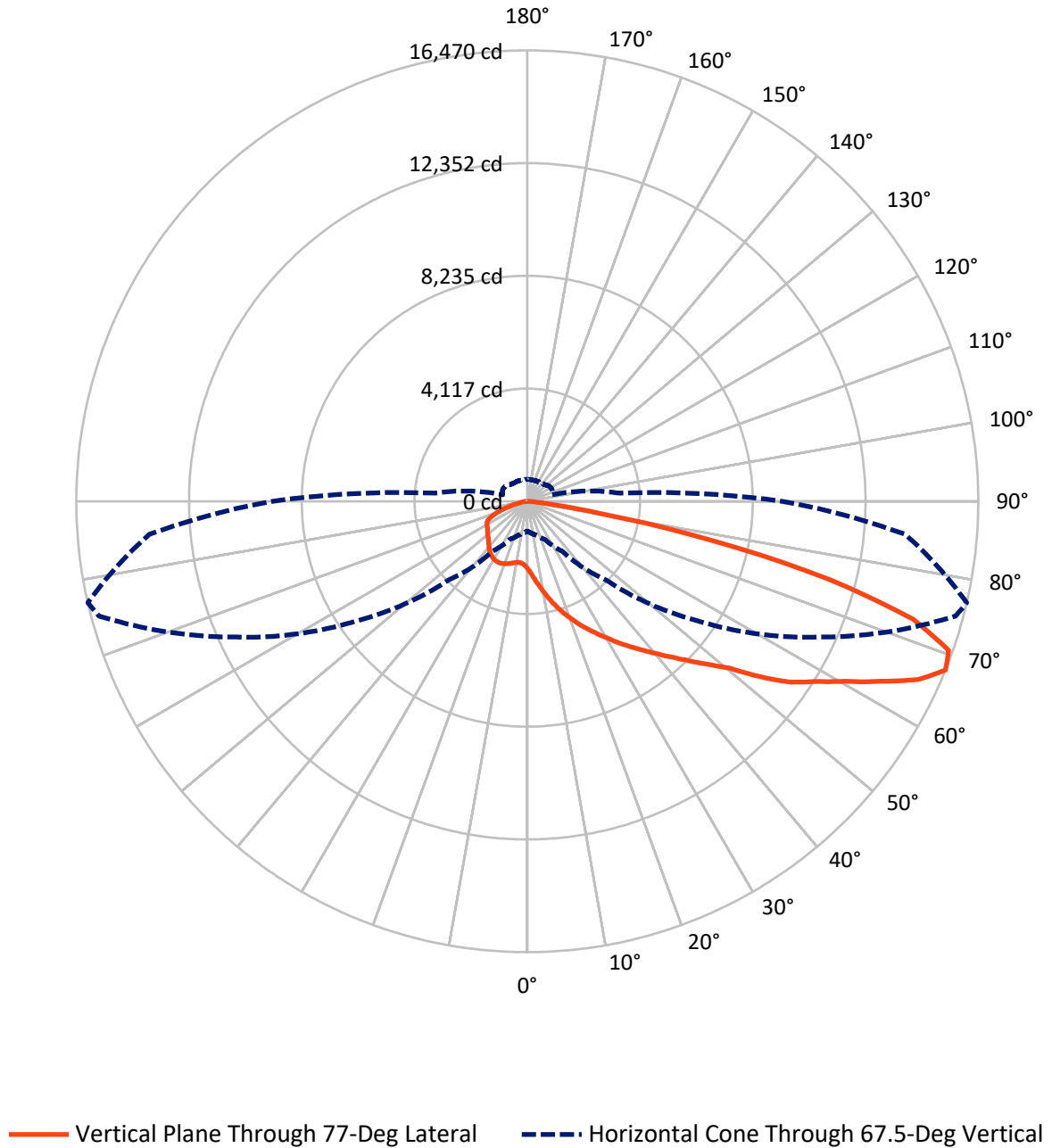
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3971.4	0.0	3971.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17023.6	0.0	17023.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	20995.0	0.0	20995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.0	1.3
10°-20°	948.6	4.5
20°-30°	1791.0	8.5
30°-40°	2885.3	13.7
40°-50°	3946.6	18.8
50°-60°	4451.8	21.2
60°-70°	4155.2	19.8
70°-80°	2277.7	10.8
80°-90°	274.7	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°	20995.0	100.0
0°-180°	20995.0	100.0

Coefficient of Utilization



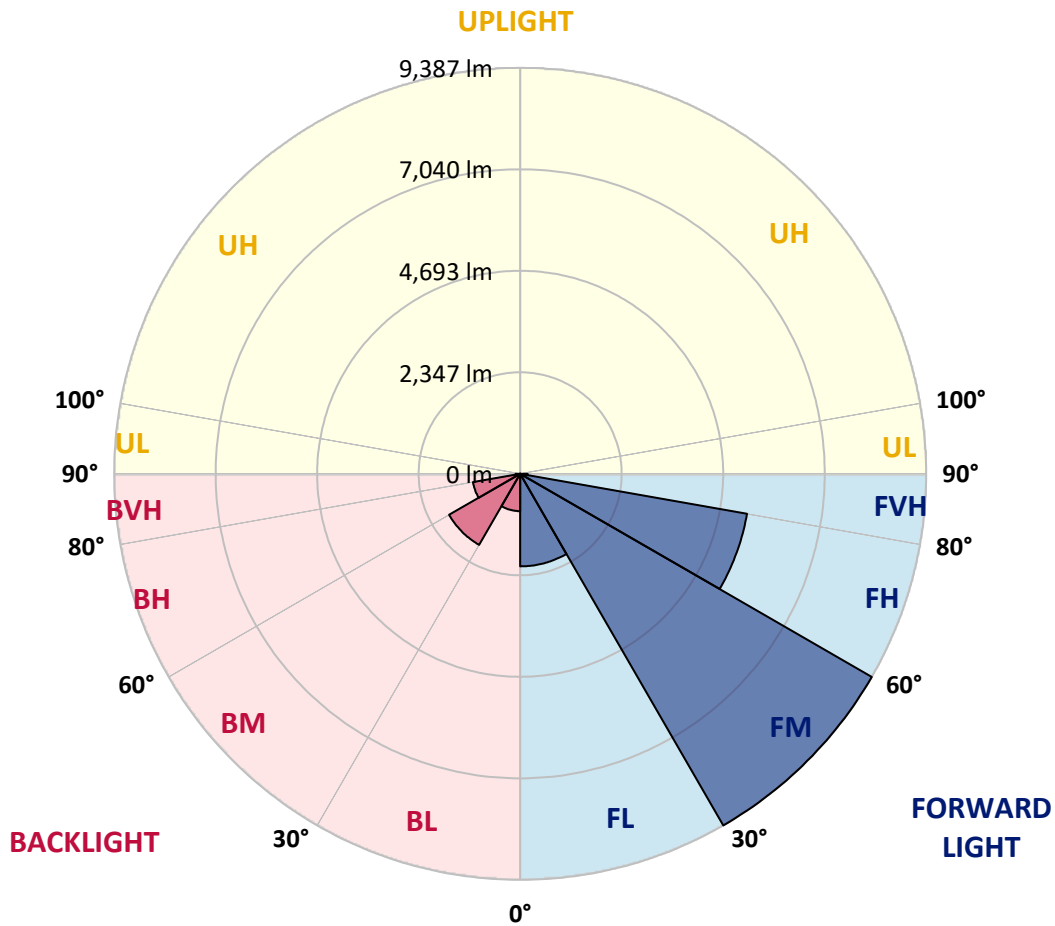
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2140.2	10.2			
FM (30°-60°)	9386.6	44.7			
FH (60°-80°)	5325.0	25.4			G3/7500
FVH (80°-90°)	171.8	0.8			G2/225
BL (0°-30°)	863.5	4.1	B2/1000		
BM (30°-60°)	1897.0	9.0	B2/2500		
BH (60°-80°)	1108.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	102.9	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4
2.5°	3084.4	3106.0	3078.9	3078.9	2987.9	2940.2	2849.2	2779.8	2655.2	2633.5
5°	3645.7	3672.8	3634.9	3618.6	3511.4	3412.7	3259.9	3109.3	2887.1	2864.4
7.5°	4080.3	4115.0	4081.4	4064.1	3968.7	3858.2	3679.3	3469.1	3155.9	3111.4
10°	4434.7	4440.1	4429.3	4435.8	4361.0	4270.0	4086.8	3841.9	3450.7	3390.0
12.5°	4635.2	4660.1	4681.8	4720.8	4707.8	4651.5	4486.7	4194.1	3762.8	3684.8
15°	4729.5	4772.8	4821.6	4911.6	4984.2	4998.3	4872.5	4572.3	4080.3	3986.0
17.5°	4763.1	4804.3	4881.2	5011.3	5167.3	5272.4	5216.1	4939.7	4394.6	4286.2
20°	4933.2	4945.2	4991.8	5115.3	5284.4	5458.9	5501.1	5293.0	4705.6	4583.2
22.5°	5297.4	5273.5	5286.5	5342.9	5464.3	5633.3	5729.8	5605.2	5025.4	4884.5
25°	5898.9	5829.5	5760.1	5695.1	5756.9	5852.3	5961.7	5917.3	5360.2	5181.4
27.5°	6658.6	6574.0	6421.2	6207.7	6132.9	6166.5	6215.3	6206.6	5670.2	5489.2
30°	7406.4	7307.7	7125.7	6816.8	6619.6	6530.7	6493.8	6468.9	6007.2	5814.3
32.5°	8003.5	7925.5	7746.7	7400.9	7114.8	6963.1	6840.6	6751.8	6359.5	6166.5
35°	8525.9	8453.3	8248.4	7871.3	7560.2	7398.8	7238.4	7048.7	6725.8	6530.7
37.5°	9002.7	8930.1	8649.4	8257.1	7943.9	7832.3	7689.2	7367.3	7093.1	6908.9
40°	9304.0	9287.7	9025.5	8581.1	8256.0	8200.7	8153.1	7736.9	7500.6	7329.4
42.5°	9380.9	9416.7	9208.6	8843.4	8533.5	8489.0	8600.6	8155.2	7958.0	7794.3
45°	9195.6	9298.6	9162.0	8913.9	8730.7	8706.9	8997.3	8612.6	8464.1	8314.5
47.5°	8726.4	8900.8	8844.5	8809.8	8783.8	8886.8	9346.3	9098.1	9037.4	8907.3
50°	7779.2	8109.7	8208.3	8427.2	8678.7	9026.6	9663.8	9628.0	9707.2	9576.0
52.5°	6141.6	6596.8	7169.0	7717.4	8355.7	8980.0	10012.8	10388.8	10722.6	10651.1
55°	5069.8	5274.6	5714.6	6720.3	7729.3	8783.8	10169.9	11003.3	11730.5	11666.6
57.5°	4246.1	4429.3	4700.2	5540.1	6782.1	8338.4	10267.5	11378.3	12420.9	12414.4
60°	3362.9	3556.9	3834.3	4429.3	5675.6	7568.9	10245.8	11805.3	13302.0	13356.1
62.5°	2365.8	2579.3	2887.1	3442.0	4545.3	6571.9	9803.6	12114.2	14339.1	14486.5
65°	1555.2	1696.1	1928.0	2407.0	3386.7	5289.8	8959.4	12154.3	15448.9	15698.1
67.5°	1090.3	1144.4	1281.0	1541.1	2232.5	4056.5	7614.4	11739.2	16189.1	16469.8
70°	850.7	877.8	947.2	1051.2	1402.4	2727.8	5834.9	10659.8	16030.8	16323.5
72.5°	734.8	760.8	786.8	799.8	940.7	1684.1	3952.4	8912.8	14540.7	14739.0
75°	666.5	673.0	694.7	690.3	717.4	1092.4	2281.3	6493.8	11472.6	11404.3
77.5°	560.3	569.0	604.7	599.3	637.2	746.7	1184.5	4190.9	7437.8	6973.9
80°	474.7	479.0	518.0	511.5	553.8	540.8	604.7	2136.1	3154.8	2672.5
82.5°	164.7	203.7	395.6	407.5	422.7	327.3	349.0	871.3	963.5	738.0
85°	80.2	85.6	201.6	286.1	285.0	164.7	170.1	311.0	303.5	238.4
87.5°	13.0	16.3	23.8	111.6	88.9	43.4	58.5	60.7	62.9	54.2
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°
2463.4	0°	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4	2463.4
2551.1	2.5°	2490.5	2436.3	2322.5	2217.4	2135.0	2055.9	2011.4	1973.5	1951.8	1947.5
2670.4	5°	2557.7	2446.0	2239.0	2064.5	1950.8	1866.2	1821.8	1793.6	1779.5	1770.8
2830.8	7.5°	2654.1	2490.5	2195.7	1997.4	1878.1	1817.5	1794.7	1790.4	1789.3	1790.4
3024.7	10°	2787.4	2563.1	2191.3	1981.1	1881.4	1847.8	1846.7	1847.8	1852.1	1853.2
3236.1	12.5°	2931.5	2637.8	2208.7	1995.2	1922.6	1904.2	1900.9	1899.8	1903.1	1905.2
3449.6	15°	3088.7	2736.5	2237.9	2025.5	1968.1	1948.6	1945.3	1938.8	1937.7	1936.7
3673.9	17.5°	3250.2	2834.0	2270.5	2058.0	1997.4	1970.3	1958.3	1943.2	1931.2	1928.0
3905.8	20°	3413.8	2930.5	2293.2	2074.3	1999.5	1961.6	1937.7	1911.7	1891.1	1879.2
4139.9	22.5°	3588.3	3031.3	2307.3	2070.0	1980.0	1928.0	1884.6	1854.3	1822.9	1802.3
4376.2	25°	3758.4	3119.0	2306.2	2047.2	1942.1	1876.0	1820.7	1781.7	1738.3	1716.7
4620.0	27.5°	3922.1	3198.1	2279.1	2007.1	1887.9	1814.2	1748.1	1701.5	1659.2	1638.6
4866.0	30°	4091.2	3264.3	2236.9	1948.6	1824.0	1742.7	1670.1	1630.0	1592.0	1572.5
5126.1	32.5°	4259.1	3324.9	2177.3	1876.0	1750.3	1672.2	1600.7	1563.9	1541.1	1541.1
5405.7	35°	4436.9	3367.2	2098.1	1791.4	1672.2	1597.4	1541.1	1519.4	1517.3	1504.2
5701.6	37.5°	4624.4	3394.3	2001.7	1704.7	1595.3	1524.8	1507.5	1481.5	1459.8	1431.6
6026.7	40°	4821.6	3421.4	1885.7	1614.8	1514.0	1475.0	1467.4	1432.7	1370.9	1301.6
6395.2	42.5°	5061.1	3439.8	1765.4	1524.8	1428.4	1415.4	1426.2	1366.6	1268.0	1216.0
6839.6	45°	5338.6	3470.2	1654.9	1436.0	1340.6	1340.6	1386.1	1308.1	1226.8	1194.3
7346.7	47.5°	5698.4	3540.6	1551.9	1338.4	1259.3	1281.0	1297.2	1237.6	1192.1	1152.0
7964.5	50°	6218.6	3709.7	1445.7	1239.8	1197.5	1240.9	1218.1	1183.5	1130.4	1097.8
8946.4	52.5°	6864.5	3809.4	1351.4	1150.9	1144.4	1187.8	1155.3	1122.8	1082.7	1039.3
9690.9	55°	7304.5	3827.8	1272.3	1085.9	1108.7	1104.3	1092.4	1063.2	1041.5	984.0
10425.7	57.5°	7796.5	3864.7	1207.3	1046.9	1085.9	1038.2	1033.9	1009.0	980.8	941.8
11321.9	60°	8385.0	3922.1	1150.9	1031.7	1066.4	994.9	973.2	963.5	935.3	915.8
12400.3	62.5°	9026.6	3974.1	1093.5	1033.9	1043.7	952.6	920.1	916.9	899.5	893.0
13412.5	65°	9464.4	3832.1	1022.0	1031.7	1007.9	909.3	868.1	867.0	852.9	850.7
13851.4	67.5°	9311.6	3382.4	925.5	1001.4	971.0	865.9	820.4	816.1	797.6	798.7
13393.0	70°	8546.5	2740.8	792.2	926.6	925.5	826.9	770.5	756.5	731.5	735.9
11644.9	72.5°	7111.6	2030.9	613.4	802.0	852.9	791.1	713.1	690.3	658.9	663.3
8596.3	75°	5135.9	1380.7	446.5	610.2	742.4	748.9	656.8	617.7	579.8	586.3
4784.8	77.5°	2628.1	782.5	328.4	420.5	583.1	680.6	605.8	553.8	545.1	605.8
1379.6	80°	857.2	392.3	227.6	294.8	382.6	557.0	531.0	471.4	469.3	483.4
289.4	82.5°	255.8	165.8	146.3	194.0	211.3	427.0	458.4	356.6	306.7	323.0
96.5	85°	87.8	80.2	83.4	96.5	100.8	250.3	320.8	236.3	223.3	246.0
21.7	87.5°	20.6	28.2	23.8	21.7	21.7	60.7	124.6	98.6	136.6	91.0
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>
2463.4
1947.5
1769.8
1793.6
1854.3
1906.3
1935.6
1931.2
1883.6
1803.4
1716.7
1637.5
1571.4
1542.2
1501.0
1427.3
1291.8
1217.1
1199.7
1150.9
1094.6
1030.6
985.1
928.8
921.2
893.0
849.7
798.7
740.2
662.2
588.5
597.1
415.1
333.8
242.8
87.8
0.0

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