

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: P947511

Luminaire Tested: **GALN-SB2D-830-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947511  
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-SB2D-830-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

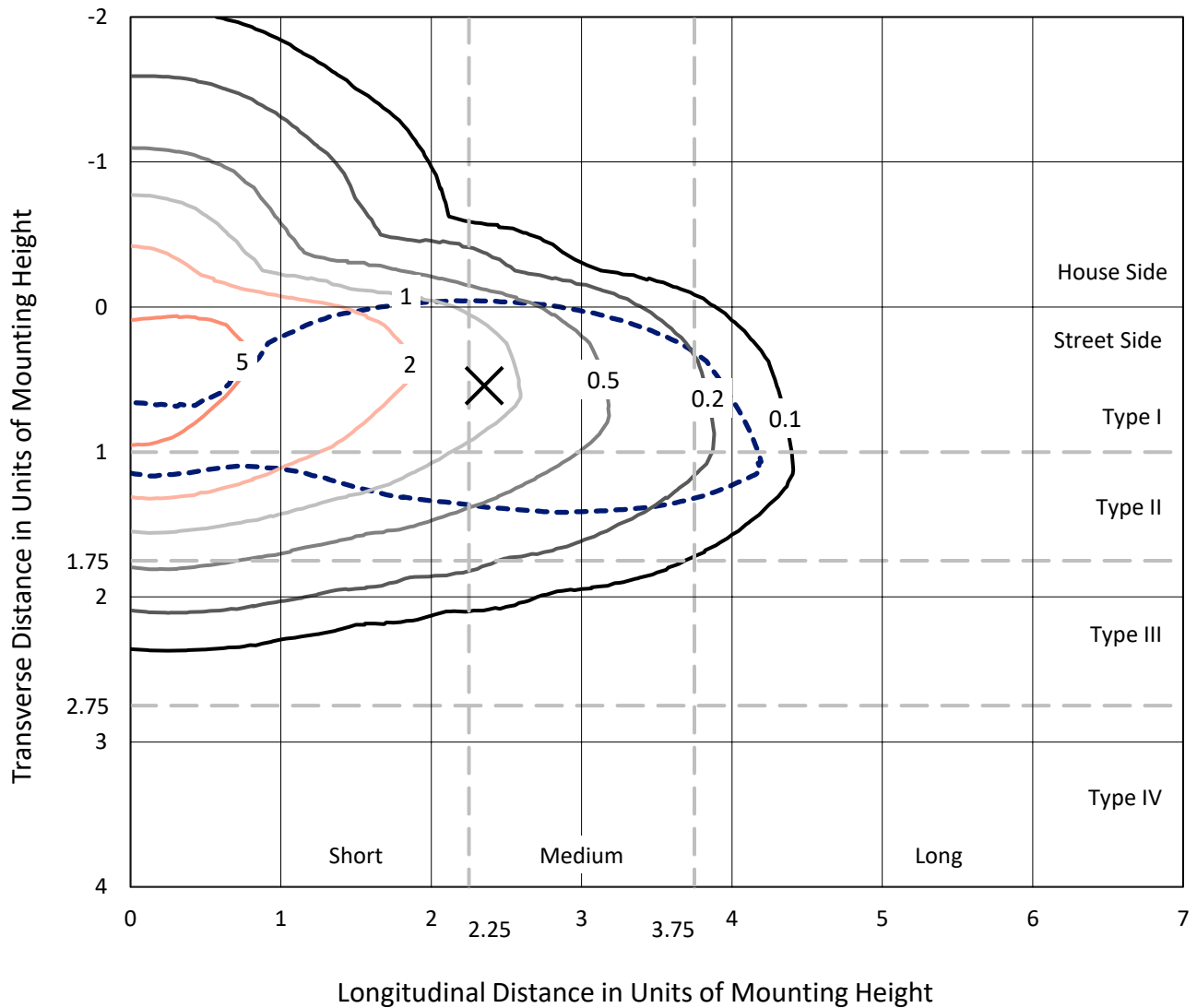
Lumens per Lamp: N/A  
Luminaire Lumens: 18625 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

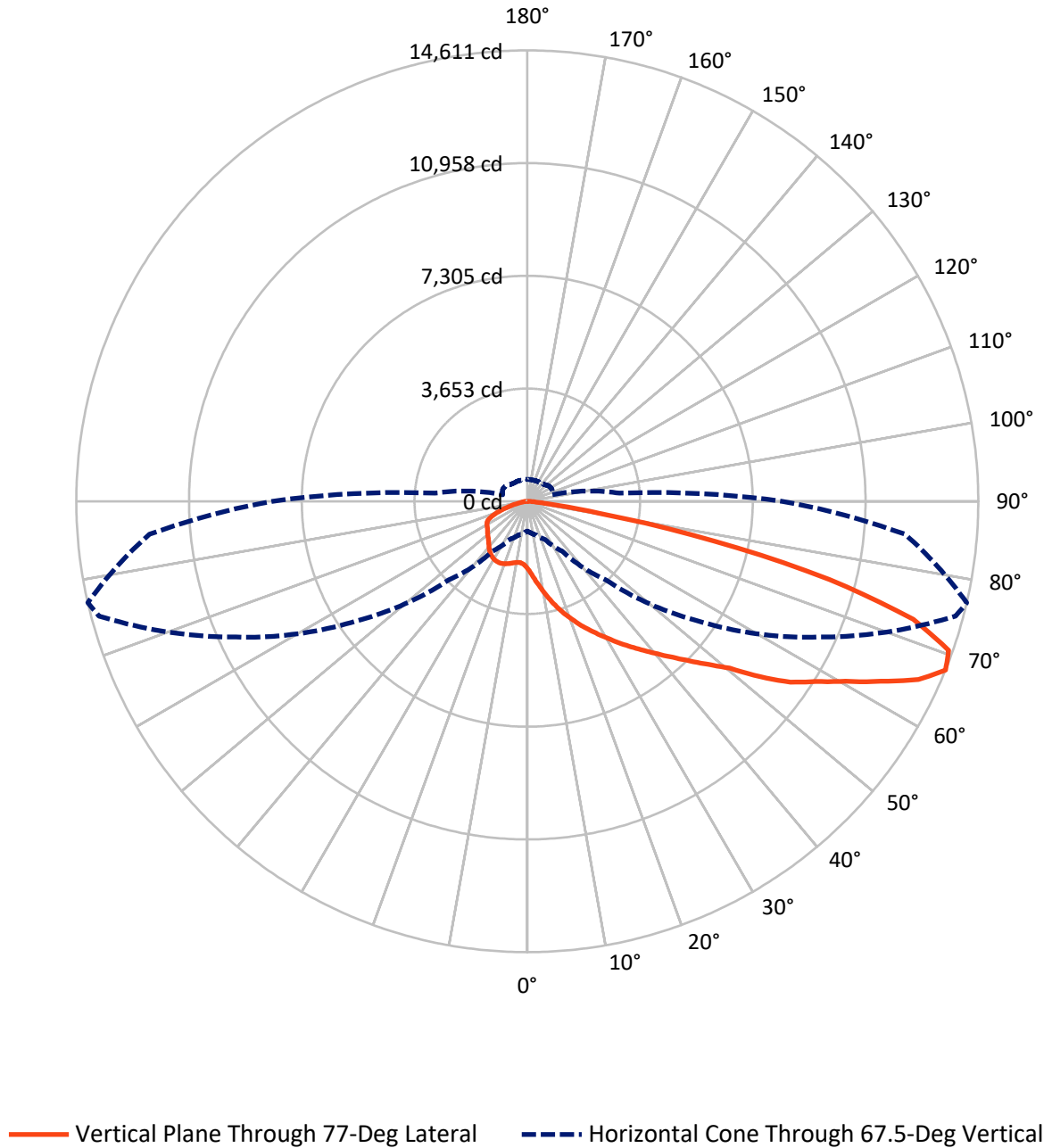
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3523.1	0.0	3523.1
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	15101.9	0.0	15101.9
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	18625.0	0.0	18625.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.2	1.3
10°-20°	841.5	4.5
20°-30°	1588.8	8.5
30°-40°	2559.6	13.7
40°-50°	3501.1	18.8
50°-60°	3949.2	21.2
60°-70°	3686.1	19.8
70°-80°	2020.6	10.8
80°-90°	243.7	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°	18625.0	100.0
0°-180°	18625.0	100.0

**Coefficient of Utilization**



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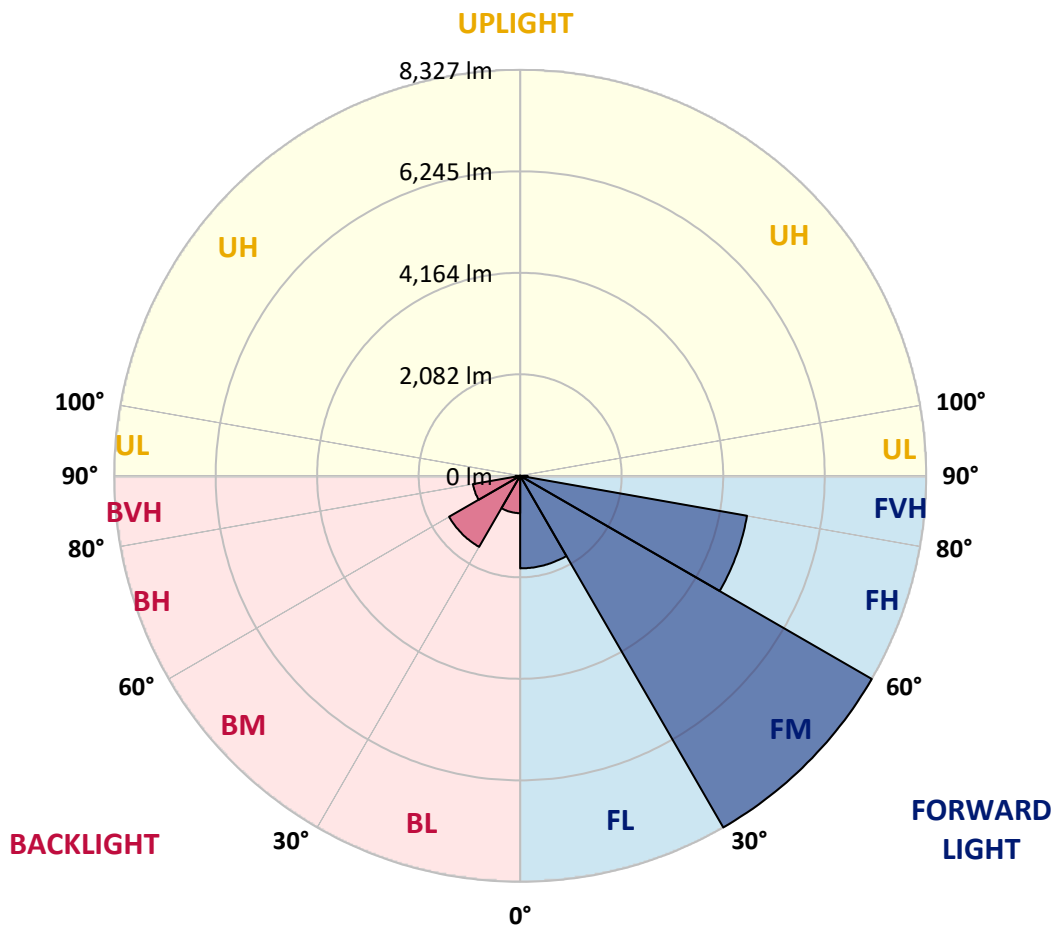
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.6	10.2			
FM (30°-60°)	8327.0	44.7			
FH (60°-80°)	4723.9	25.4			G2/5000
FVH (80°-90°)	152.4	0.8			G2/225
BL (0°-30°)	766.0	4.1	B2/1000		
BM (30°-60°)	1682.9	9.0	B2/2500		
BH (60°-80°)	982.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	91.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3
2.5°	2736.2	2755.4	2731.4	2731.4	2650.6	2608.3	2527.6	2466.0	2355.5	2336.2
5°	3234.2	3258.2	3224.6	3210.2	3115.0	3027.5	2891.9	2758.3	2561.2	2541.0
7.5°	3619.7	3650.5	3620.7	3605.3	3520.7	3422.6	3264.0	3077.5	2799.6	2760.2
10°	3934.1	3938.9	3929.3	3935.1	3868.7	3788.0	3625.5	3408.2	3061.1	3007.3
12.5°	4112.0	4134.1	4153.3	4187.9	4176.4	4126.4	3980.2	3720.7	3338.0	3268.8
15°	4195.6	4234.1	4277.3	4357.1	4421.5	4434.0	4322.5	4056.2	3619.7	3536.1
17.5°	4225.4	4261.9	4330.2	4445.6	4584.0	4677.3	4627.3	4382.1	3898.5	3802.4
20°	4376.4	4386.9	4428.3	4537.9	4687.8	4842.6	4880.1	4695.5	4174.5	4065.8
22.5°	4699.4	4678.2	4689.8	4739.8	4847.4	4997.4	5083.0	4972.4	4458.1	4333.1
25°	5233.0	5171.4	5109.9	5052.2	5107.0	5191.6	5288.7	5249.3	4755.1	4596.5
27.5°	5906.9	5831.9	5696.4	5507.0	5440.6	5470.4	5513.7	5506.0	5030.1	4869.6
30°	6570.3	6482.8	6321.3	6047.3	5872.3	5793.5	5760.8	5738.7	5329.1	5158.0
32.5°	7100.0	7030.8	6872.2	6565.5	6311.7	6177.1	6068.4	5989.6	5641.6	5470.4
35°	7563.4	7499.0	7317.3	6982.7	6706.8	6563.6	6421.3	6253.0	5966.5	5793.5
37.5°	7986.5	7922.0	7673.0	7325.0	7047.2	6948.1	6821.2	6535.7	6292.4	6129.0
40°	8253.7	8239.3	8006.6	7612.5	7324.0	7275.0	7232.7	6863.5	6653.9	6502.0
42.5°	8322.0	8353.7	8169.1	7845.1	7570.2	7530.7	7629.8	7234.6	7059.7	6914.5
45°	8157.6	8248.9	8127.8	7907.6	7745.1	7724.0	7981.6	7640.3	7508.6	7376.0
47.5°	7741.3	7896.1	7846.1	7815.3	7792.3	7883.6	8291.2	8071.1	8017.2	7901.9
50°	6901.0	7194.3	7281.7	7475.9	7699.0	8007.6	8572.9	8541.2	8611.4	8495.0
52.5°	5448.3	5852.1	6359.7	6846.2	7412.5	7966.3	8882.5	9216.1	9512.2	9448.8
55°	4497.5	4679.2	5069.5	5961.7	6856.8	7792.3	9021.9	9761.2	10406.3	10349.6
57.5°	3766.8	3929.3	4169.6	4914.7	6016.5	7397.1	9108.4	10093.9	11018.8	11013.0
60°	2983.3	3155.4	3401.5	3929.3	5034.9	6714.5	9089.2	10472.7	11800.4	11848.5
62.5°	2098.8	2288.2	2561.2	3053.4	4032.2	5830.0	8696.9	10746.7	12720.5	12851.2
65°	1379.6	1504.6	1710.4	2135.3	3004.4	4692.7	7948.0	10782.2	13704.9	13926.1
67.5°	967.2	1015.3	1136.4	1367.1	1980.5	3598.6	6754.9	10414.0	14361.6	14610.6
70°	754.7	778.7	840.3	932.6	1244.1	2419.9	5176.2	9456.5	14221.2	14480.8
72.5°	651.8	674.9	698.0	709.5	834.5	1494.0	3506.3	7906.7	12899.3	13075.2
75°	591.3	597.0	616.3	612.4	636.5	969.1	2023.8	5760.8	10177.5	10116.9
77.5°	497.1	504.7	536.5	531.7	565.3	662.4	1050.8	3717.8	6598.2	6186.7
80°	421.1	424.9	459.6	453.8	491.3	479.7	536.5	1894.9	2798.7	2370.8
82.5°	146.1	180.7	350.9	361.5	375.0	290.3	309.6	773.0	854.7	654.7
85°	71.1	76.0	178.8	253.8	252.9	146.1	150.9	275.9	269.2	211.5
87.5°	11.5	14.4	21.2	99.0	78.8	38.5	51.9	53.8	55.8	48.1
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°
2185.3	0°	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3	2185.3
2263.2	2.5°	2209.3	2161.3	2060.3	1967.1	1894.0	1823.8	1784.4	1750.7	1731.5	1727.7
2368.9	5°	2268.9	2169.9	1986.3	1831.5	1730.5	1655.6	1616.1	1591.1	1578.6	1570.9
2511.2	7.5°	2354.5	2209.3	1947.8	1771.9	1666.1	1612.3	1592.1	1588.3	1587.3	1588.3
2683.3	10°	2472.8	2273.7	1944.0	1757.5	1669.0	1639.2	1638.2	1639.2	1643.1	1644.0
2870.8	12.5°	2600.6	2340.1	1959.4	1770.0	1705.5	1689.2	1686.3	1685.4	1688.2	1690.2
3060.2	15°	2740.0	2427.6	1985.3	1796.9	1745.9	1728.6	1725.7	1720.0	1719.0	1718.0
3259.2	17.5°	2883.3	2514.1	2014.2	1825.7	1771.9	1747.8	1737.3	1723.8	1713.2	1710.4
3464.9	20°	3028.5	2599.7	2034.3	1840.1	1773.8	1740.2	1719.0	1695.9	1677.7	1667.1
3672.6	22.5°	3183.2	2689.1	2046.8	1836.3	1756.5	1710.4	1671.9	1645.0	1617.1	1598.8
3882.2	25°	3334.2	2766.9	2045.9	1816.1	1722.9	1664.2	1615.2	1580.6	1542.1	1522.9
4098.5	27.5°	3479.4	2837.1	2021.9	1780.5	1674.8	1609.4	1550.8	1509.4	1471.9	1453.7
4316.7	30°	3629.3	2895.8	1984.4	1728.6	1618.1	1546.0	1481.5	1446.0	1412.3	1395.0
4547.5	32.5°	3778.4	2949.6	1931.5	1664.2	1552.7	1483.5	1420.0	1387.3	1367.1	1367.1
4795.5	35°	3936.0	2987.1	1861.3	1589.2	1483.5	1417.1	1367.1	1347.9	1346.0	1334.4
5058.0	37.5°	4102.3	3011.1	1775.7	1512.3	1415.2	1352.7	1337.3	1314.3	1295.0	1270.0
5346.4	40°	4277.3	3035.2	1672.9	1432.5	1343.1	1308.5	1301.8	1271.0	1216.2	1154.7
5673.3	42.5°	4489.8	3051.5	1566.1	1352.7	1267.1	1255.6	1265.2	1212.3	1124.9	1078.7
6067.5	45°	4735.9	3078.4	1468.1	1273.9	1189.3	1189.3	1229.6	1160.4	1088.3	1059.5
6517.4	47.5°	5055.1	3140.9	1376.7	1187.3	1117.2	1136.4	1150.8	1097.9	1057.6	1022.0
7065.4	50°	5516.6	3290.9	1282.5	1099.9	1062.4	1100.8	1080.6	1049.9	1002.8	973.9
7936.5	52.5°	6089.6	3379.4	1198.9	1021.0	1015.3	1053.7	1024.9	996.0	960.5	922.0
8597.0	55°	6479.9	3395.7	1128.7	963.3	983.5	979.7	969.1	943.1	923.9	873.0
9248.8	57.5°	6916.4	3428.4	1071.0	928.7	963.3	921.0	917.2	895.1	870.1	835.5
10043.9	60°	7438.5	3479.4	1021.0	915.3	946.0	882.6	863.3	854.7	829.7	812.4
11000.5	62.5°	8007.6	3525.5	970.1	917.2	925.8	845.1	816.2	813.4	798.0	792.2
11898.4	65°	8396.0	3399.6	906.6	915.3	894.1	806.6	770.1	769.1	756.6	754.7
12287.8	67.5°	8260.5	3000.6	821.0	888.3	861.4	768.2	727.8	723.9	707.6	708.6
11881.1	70°	7581.7	2431.4	702.8	822.0	821.0	733.6	683.6	671.1	649.0	652.8
10330.4	72.5°	6308.8	1801.7	544.2	711.4	756.6	701.8	632.6	612.4	584.5	588.4
7625.9	75°	4556.1	1224.8	396.1	541.3	658.6	664.3	582.6	548.0	514.4	520.1
4244.6	77.5°	2331.4	694.1	291.3	373.0	517.2	603.8	537.4	491.3	483.6	537.4
1223.9	80°	760.5	348.0	201.9	261.5	339.4	494.2	471.1	418.2	416.3	428.8
256.7	82.5°	226.9	147.1	129.8	172.1	187.5	378.8	406.7	316.3	272.1	286.5
85.6	85°	77.9	71.1	74.0	85.6	89.4	222.1	284.6	209.6	198.1	218.2
19.2	87.5°	18.3	25.0	21.2	19.2	19.2	53.8	110.6	87.5	121.1	80.8
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>
2185.3
1727.7
1570.0
1591.1
1645.0
1691.1
1717.1
1713.2
1670.9
1599.8
1522.9
1452.7
1394.0
1368.1
1331.6
1266.2
1146.0
1079.7
1064.3
1021.0
971.0
914.3
873.9
823.9
817.2
792.2
753.7
708.6
656.6
587.4
522.0
529.7
368.2
296.1
215.4
77.9
0.0

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