

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: P947448

Luminaire Tested: **GALN-SB2D-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947448
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-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21929 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

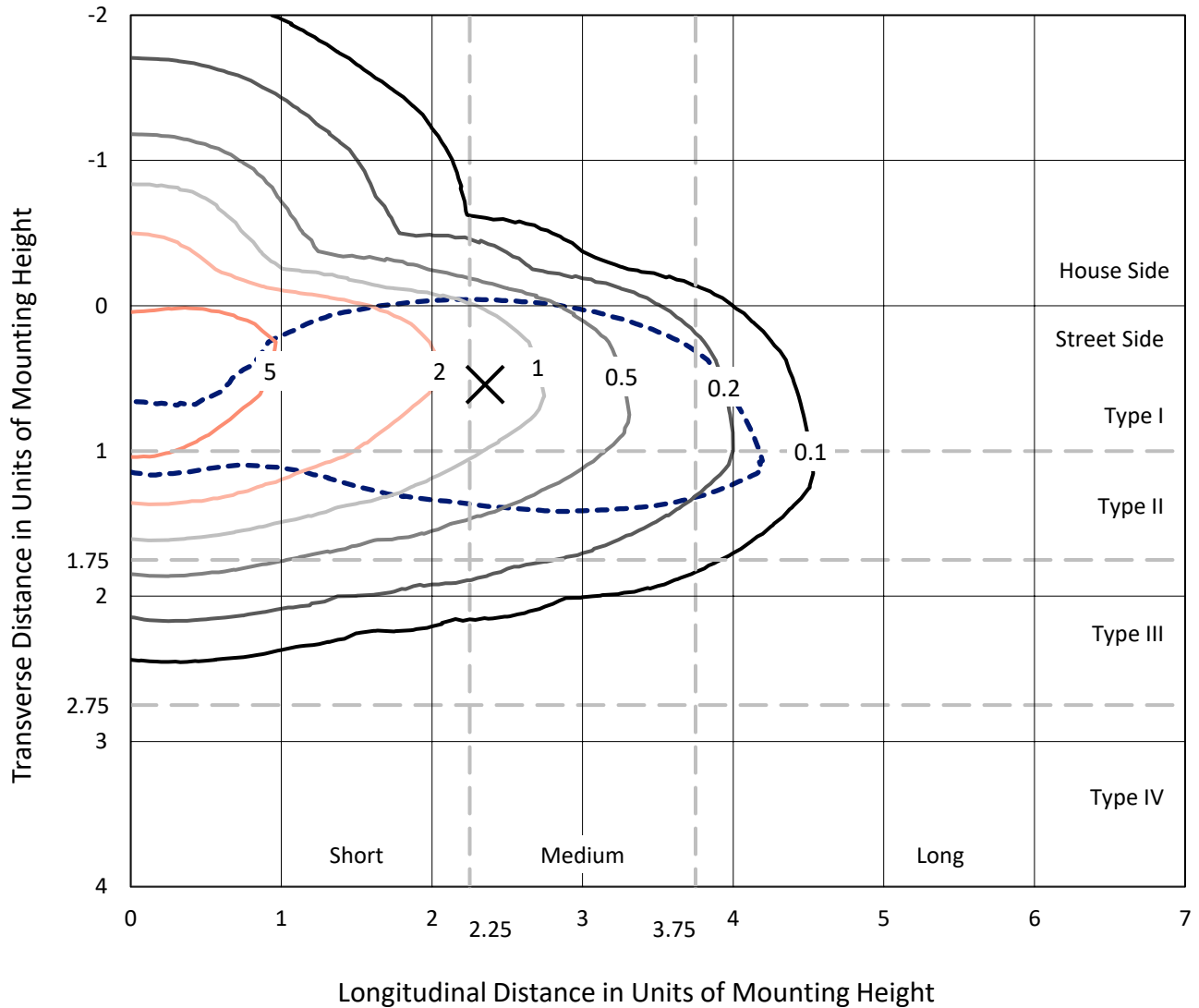
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

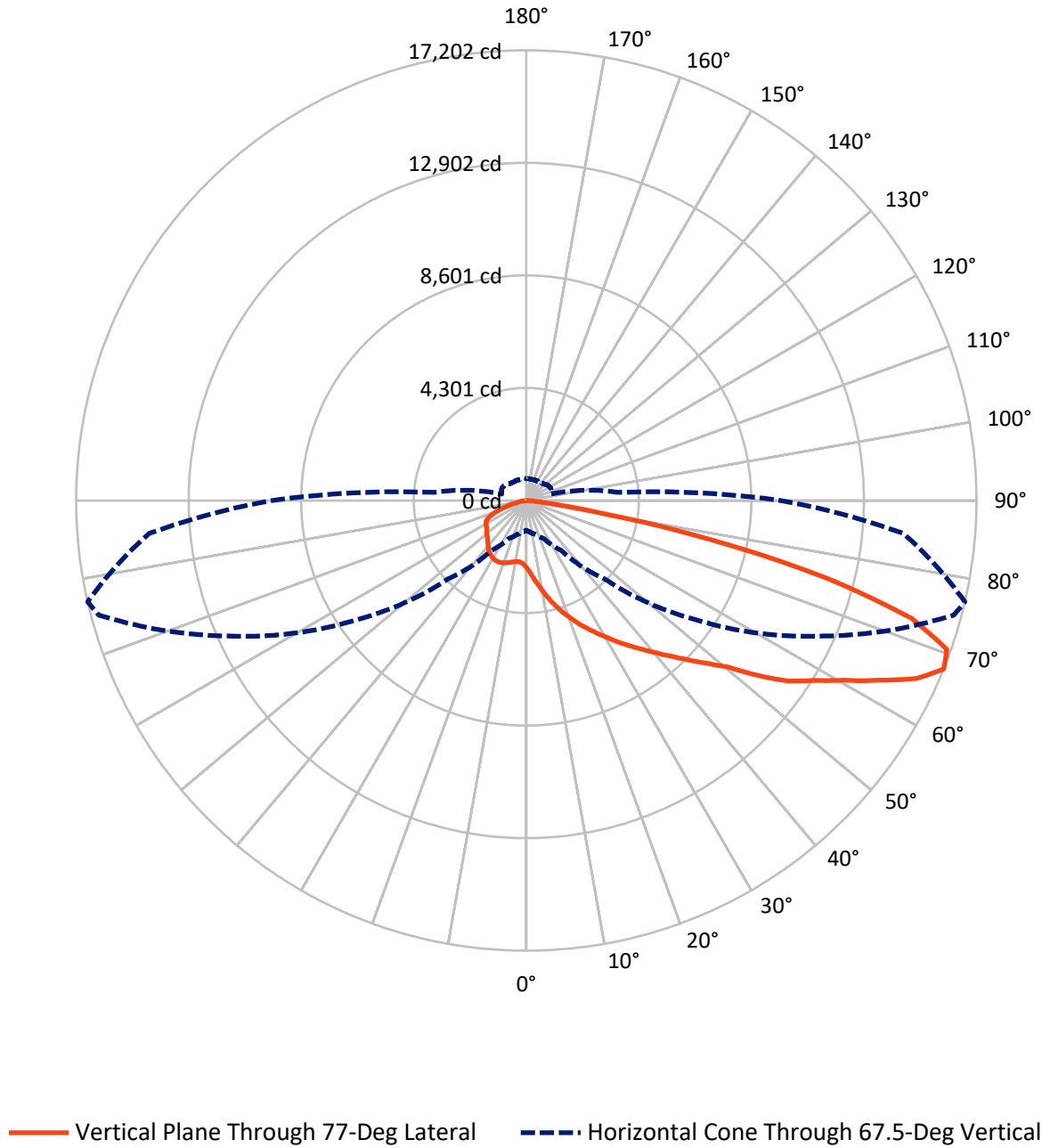
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	4148.1	0.0	4148.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	17780.9	0.0	17780.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	21929.0	0.0	21929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.3
10°-20°	990.8	4.5
20°-30°	1870.7	8.5
30°-40°	3013.7	13.7
40°-50°	4122.2	18.8
50°-60°	4649.8	21.2
60°-70°	4340.0	19.8
70°-80°	2379.1	10.8
80°-90°	287.0	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°	21929.0	100.0
0°-180°	21929.0	100.0



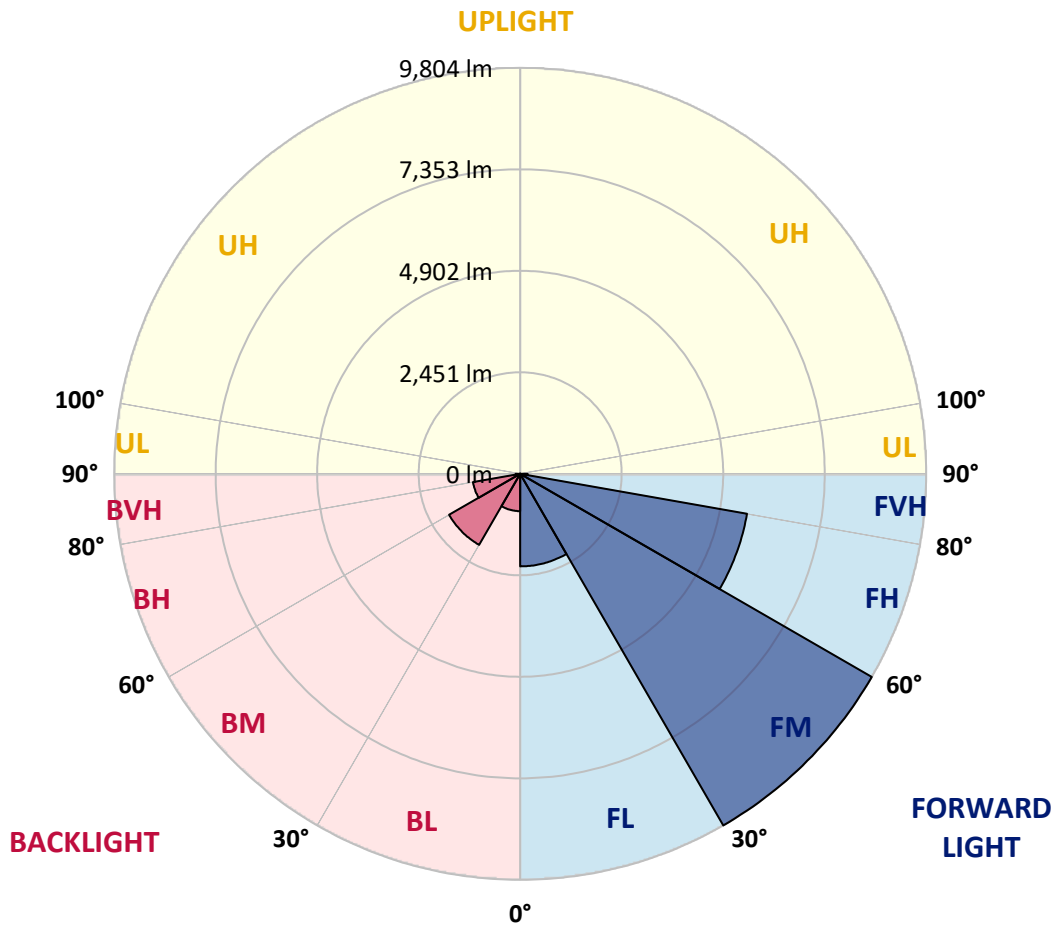
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2235.4	10.2			
FM (30°-60°)	9804.2	44.7			
FH (60°-80°)	5561.8	25.4			G3/7500
FVH (80°-90°)	179.5	0.8			G2/225
BL (0°-30°)	901.9	4.1	B2/1000		
BM (30°-60°)	1981.4	9.0	B2/2500		
BH (60°-80°)	1157.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	107.5	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°	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0
2.5°	3221.6	3244.2	3215.9	3215.9	3120.8	3071.0	2975.9	2903.5	2773.3	2750.7
5°	3807.9	3836.2	3796.6	3779.6	3667.6	3564.6	3404.9	3247.6	3015.6	2991.8
7.5°	4261.8	4298.1	4263.0	4244.9	4145.3	4029.8	3843.0	3623.4	3296.3	3249.9
10°	4632.0	4637.7	4626.3	4633.1	4555.0	4459.9	4268.6	4012.8	3604.2	3540.8
12.5°	4841.4	4867.4	4890.1	4930.8	4917.2	4858.4	4686.3	4380.7	3930.2	3848.7
15°	4939.9	4985.2	5036.1	5130.1	5205.9	5220.6	5089.3	4775.8	4261.8	4163.4
17.5°	4975.0	5018.0	5098.4	5234.2	5397.2	5507.0	5448.1	5159.5	4590.1	4476.9
20°	5152.7	5165.1	5213.8	5342.9	5519.5	5701.7	5745.8	5528.5	4915.0	4787.1
22.5°	5533.0	5508.1	5521.7	5580.6	5707.4	5883.9	5984.7	5854.5	5248.9	5101.8
25°	6161.3	6088.8	6016.4	5948.5	6013.0	6112.6	6226.9	6180.5	5598.7	5411.9
27.5°	6954.8	6866.5	6706.9	6483.9	6405.8	6440.9	6491.8	6482.8	5922.4	5733.4
30°	7735.8	7632.8	7442.7	7120.1	6914.0	6821.2	6782.7	6756.7	6274.5	6073.0
32.5°	8359.6	8278.0	8091.3	7730.2	7431.3	7272.9	7145.0	7052.1	6642.4	6440.9
35°	8905.2	8829.3	8615.4	8221.5	7896.6	7727.9	7560.4	7362.3	7025.0	6821.2
37.5°	9403.2	9327.4	9034.2	8624.4	8297.3	8180.7	8031.3	7695.1	7408.7	7216.3
40°	9717.9	9700.9	9427.0	8962.9	8623.3	8565.6	8515.8	8081.1	7834.3	7655.5
42.5°	9798.3	9835.6	9618.3	9236.8	8913.1	8866.7	8983.3	8518.0	8312.0	8141.1
45°	9604.7	9712.2	9569.6	9310.4	9119.1	9094.2	9397.6	8995.7	8840.6	8684.4
47.5°	9114.6	9296.8	9238.0	9201.7	9174.6	9282.1	9762.1	9502.8	9439.4	9303.6
50°	8125.2	8470.5	8573.5	8802.1	9064.8	9428.1	10093.7	10056.4	10139.0	10002.0
52.5°	6414.8	6890.3	7487.9	8060.7	8727.4	9379.4	10458.2	10851.0	11199.6	11124.9
55°	5295.3	5509.3	5968.8	7019.3	8073.2	9174.6	10622.3	11492.8	12252.4	12185.6
57.5°	4435.0	4626.3	4909.3	5786.6	7083.8	8709.3	10724.2	11884.5	12973.4	12966.6
60°	3512.5	3715.1	4004.9	4626.3	5928.1	7905.6	10701.6	12330.5	13893.7	13950.3
62.5°	2471.1	2694.1	3015.6	3595.1	4747.5	6864.2	10239.7	12653.1	14977.0	15131.0
65°	1624.4	1771.5	2013.8	2514.1	3537.4	5525.1	9357.9	12695.0	16136.1	16396.5
67.5°	1138.8	1195.4	1338.0	1609.7	2331.8	4236.9	7953.2	12261.4	16909.3	17202.4
70°	888.6	916.9	989.3	1098.0	1464.8	2849.2	6094.5	11134.0	16744.0	17049.6
72.5°	767.5	794.6	821.8	835.4	982.5	1759.1	4128.3	9309.3	15187.6	15394.7
75°	696.2	702.9	725.6	721.1	749.4	1141.0	2382.8	6782.7	11983.0	11911.7
77.5°	585.2	594.3	631.6	626.0	665.6	779.9	1237.2	4377.3	7768.7	7284.2
80°	495.8	500.3	541.1	534.3	578.4	564.8	631.6	2231.1	3295.1	2791.4
82.5°	172.1	212.8	413.2	425.6	441.5	341.9	364.5	910.1	1006.3	770.9
85°	83.8	89.4	210.5	298.8	297.7	172.1	177.7	324.9	316.9	249.0
87.5°	13.6	17.0	24.9	116.6	92.8	45.3	61.1	63.4	65.7	56.6
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°
2573.0	0°	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0	2573.0
2664.6	2.5°	2601.3	2544.7	2425.8	2316.0	2230.0	2147.3	2100.9	2061.3	2038.7	2034.1
2789.2	5°	2671.4	2554.8	2338.6	2156.4	2037.5	1949.2	1902.8	1873.4	1858.7	1849.6
2956.7	7.5°	2772.2	2601.3	2293.4	2086.2	1961.7	1898.3	1874.5	1870.0	1868.9	1870.0
3159.3	10°	2911.4	2677.1	2288.8	2069.2	1965.1	1930.0	1928.9	1930.0	1934.5	1935.7
3380.0	12.5°	3062.0	2755.2	2306.9	2083.9	2008.1	1988.9	1985.5	1984.3	1987.7	1990.0
3603.0	15°	3226.1	2858.2	2337.5	2115.6	2055.6	2035.3	2031.9	2025.1	2024.0	2022.8
3837.4	17.5°	3394.8	2960.1	2371.5	2149.6	2086.2	2057.9	2045.5	2029.6	2017.2	2013.8
4079.6	20°	3565.7	3060.8	2395.2	2166.6	2088.5	2048.9	2024.0	1996.8	1975.3	1962.8
4324.1	22.5°	3747.9	3166.1	2410.0	2162.1	2068.1	2013.8	1968.5	1936.8	1904.0	1882.5
4570.9	25°	3925.6	3257.8	2408.8	2138.3	2028.5	1959.4	1901.7	1860.9	1815.7	1793.0
4825.6	27.5°	4096.6	3340.4	2380.5	2096.4	1971.9	1894.9	1825.9	1777.2	1733.0	1711.5
5082.5	30°	4273.2	3409.5	2336.4	2035.3	1905.1	1820.2	1744.4	1702.5	1662.9	1642.5
5354.2	32.5°	4448.6	3472.9	2274.1	1959.4	1828.1	1746.6	1671.9	1633.4	1609.7	1609.7
5646.2	35°	4634.3	3517.0	2191.5	1871.1	1746.6	1668.5	1609.7	1587.0	1584.7	1571.2
5955.3	37.5°	4830.1	3545.3	2090.7	1780.6	1666.3	1592.7	1574.6	1547.4	1524.8	1495.3
6294.8	40°	5036.1	3573.6	1969.6	1686.6	1581.4	1540.6	1532.7	1496.5	1431.9	1359.5
6679.7	42.5°	5286.3	3592.9	1844.0	1592.7	1491.9	1478.3	1489.7	1427.4	1324.4	1270.1
7143.8	45°	5576.1	3624.5	1728.5	1499.9	1400.2	1400.2	1447.8	1366.3	1281.4	1247.4
7673.6	47.5°	5951.9	3698.1	1621.0	1398.0	1315.3	1338.0	1355.0	1292.7	1245.2	1203.3
8318.8	50°	6495.2	3874.7	1510.0	1295.0	1250.8	1296.1	1272.3	1236.1	1180.6	1146.7
9344.4	52.5°	7169.9	3978.9	1411.6	1202.1	1195.4	1240.6	1206.7	1172.7	1130.8	1085.6
10122.0	55°	7629.4	3998.1	1328.9	1134.2	1158.0	1153.5	1141.0	1110.5	1087.8	1027.8
10889.5	57.5°	8143.3	4036.6	1261.0	1093.5	1134.2	1084.4	1079.9	1053.9	1024.4	983.7
11825.6	60°	8758.0	4096.6	1202.1	1077.6	1113.9	1039.1	1016.5	1006.3	976.9	956.5
12951.9	62.5°	9428.1	4150.9	1142.2	1079.9	1090.1	995.0	961.0	957.6	939.5	932.7
14009.2	65°	9885.4	4002.6	1067.4	1077.6	1052.7	949.7	906.7	905.6	890.9	888.6
14467.6	67.5°	9725.8	3532.9	966.7	1045.9	1014.2	904.4	856.9	852.4	833.1	834.3
13988.8	70°	8926.7	2862.7	827.5	967.8	966.7	863.7	804.8	790.1	764.1	768.6
12162.9	72.5°	7427.9	2121.3	640.7	837.7	890.9	826.3	744.8	721.1	688.2	692.8
8978.7	75°	5364.4	1442.1	466.4	637.3	775.4	782.2	686.0	645.2	605.6	612.4
4997.6	77.5°	2745.0	817.3	343.0	439.2	609.0	710.9	632.8	578.4	569.4	632.8
1441.0	80°	895.4	409.8	237.7	307.9	399.6	581.8	554.7	492.4	490.1	504.9
302.2	82.5°	267.1	173.2	152.8	202.6	220.7	446.0	478.8	372.4	320.3	337.3
100.7	85°	91.7	83.8	87.2	100.7	105.3	261.5	335.1	246.8	233.2	257.0
22.6	87.5°	21.5	29.4	24.9	22.6	22.6	63.4	130.2	103.0	142.6	95.1
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>
2573.0
2034.1
1848.5
1873.4
1936.8
1991.1
2021.7
2017.2
1967.4
1883.6
1793.0
1710.4
1641.3
1610.8
1567.8
1490.8
1349.3
1271.2
1253.1
1202.1
1143.3
1076.5
1029.0
970.1
962.2
932.7
887.5
834.3
773.1
691.6
614.7
623.7
433.5
348.6
253.6
91.7
0.0

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