

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: P949086

Luminaire Tested: **GALN-SB3D-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949086  
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-SB3D-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

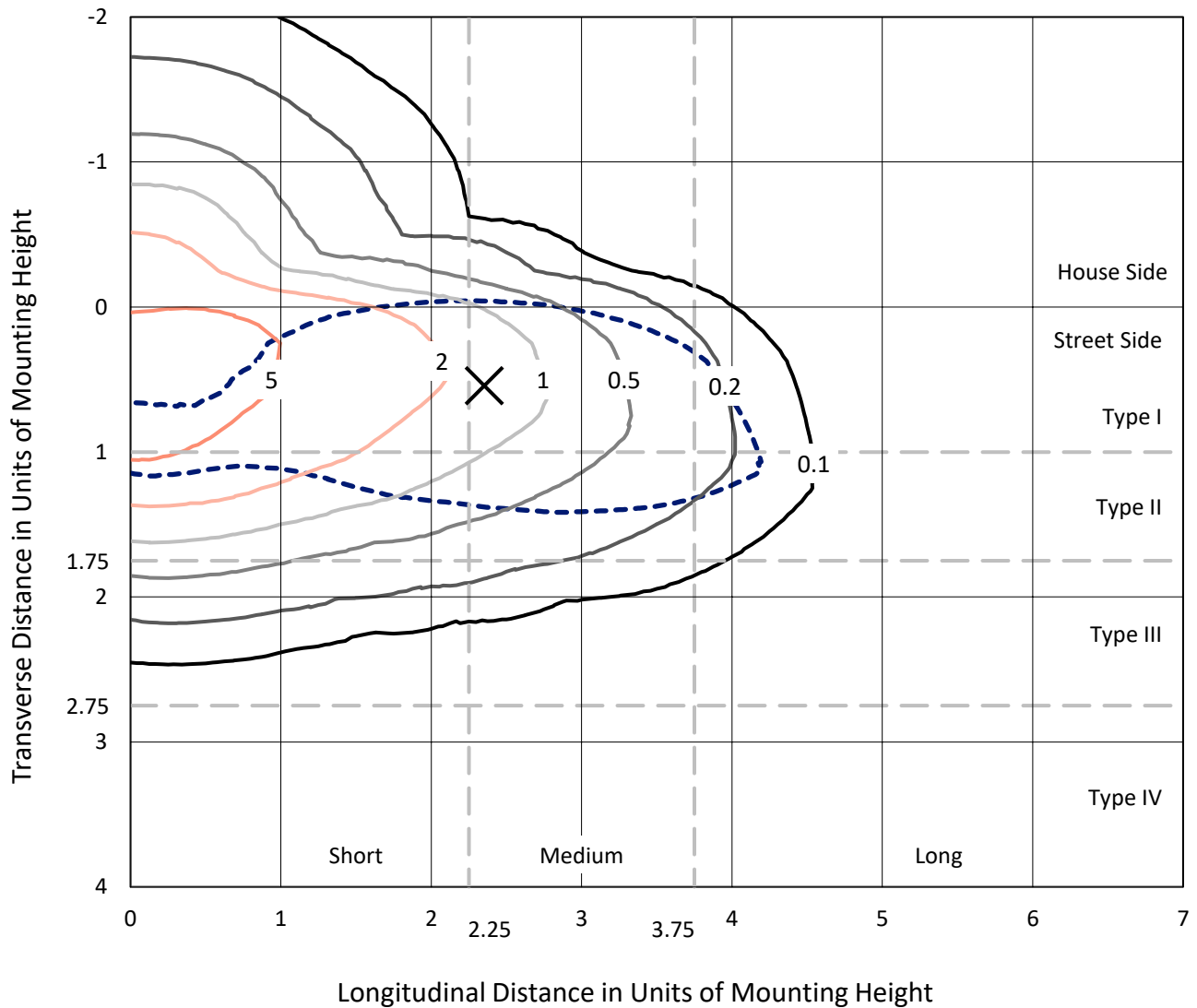
Lumens per Lamp: N/A  
Luminaire Lumens: 22535 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

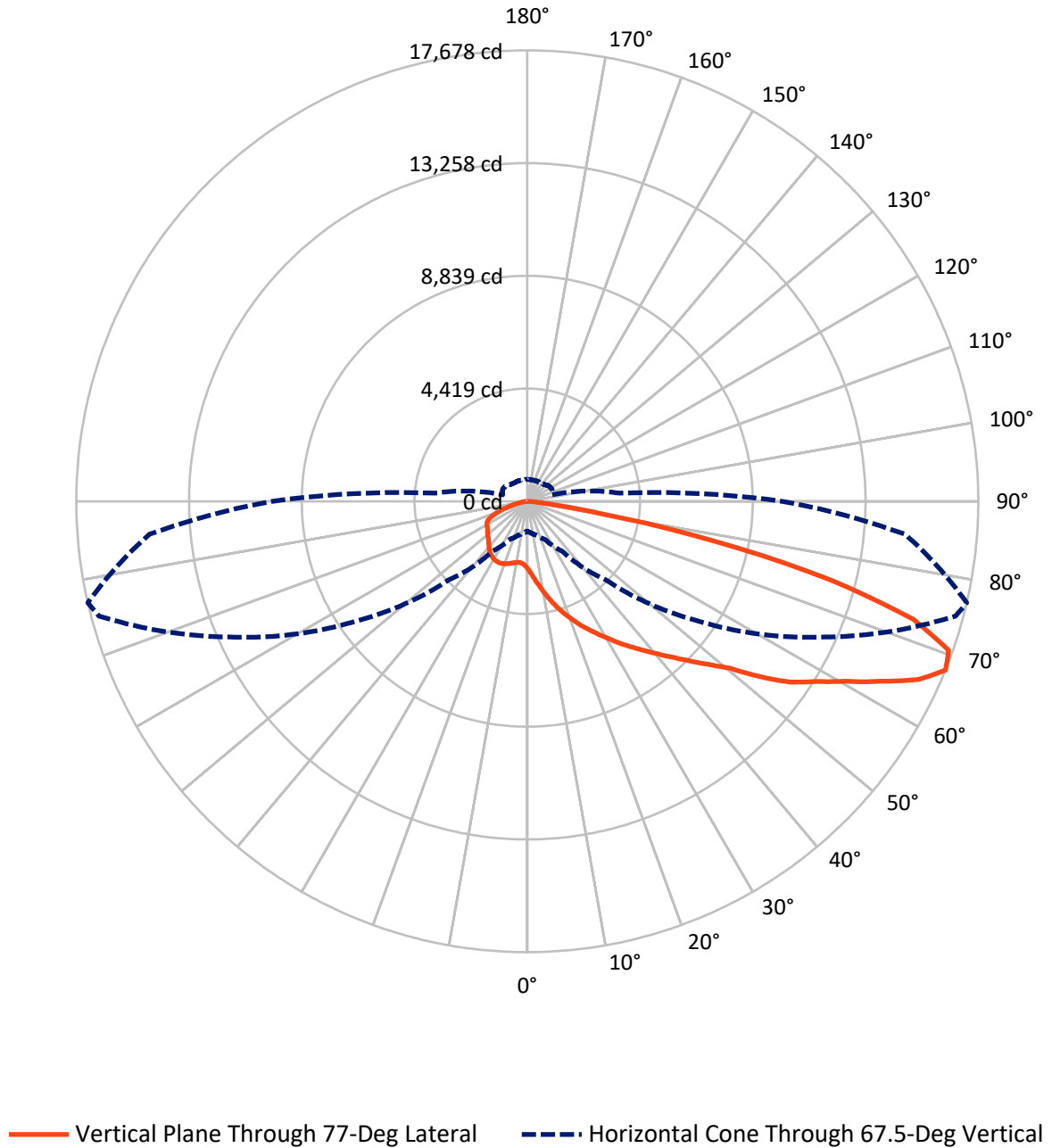
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	4262.7	0.0	4262.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	18272.3	0.0	18272.3
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	22535.0	0.0	22535.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.4	1.3
10°-20°	1018.2	4.5
20°-30°	1922.4	8.5
30°-40°	3097.0	13.7
40°-50°	4236.1	18.8
50°-60°	4778.3	21.2
60°-70°	4460.0	19.8
70°-80°	2444.8	10.8
80°-90°	294.9	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°	22535.0	100.0
0°-180°	22535.0	100.0

**Coefficient of Utilization**



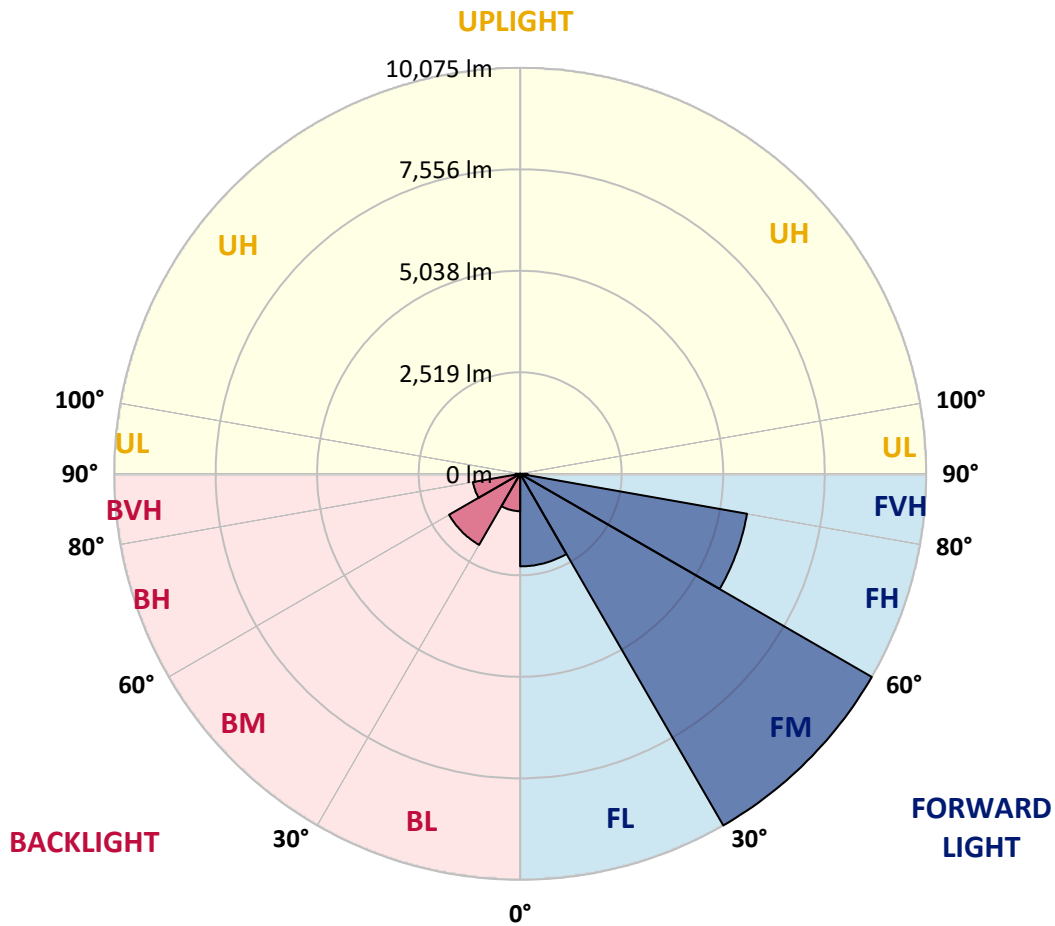
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2297.2	10.2			
FM (30°-60°)	10075.2	44.7			
FH (60°-80°)	5715.5	25.4			G3/7500
FVH (80°-90°)	184.4	0.8			G2/225
BL (0°-30°)	926.8	4.1	B2/1000		
BM (30°-60°)	2036.2	9.0	B2/2500		
BH (60°-80°)	1189.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	110.5	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°	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1
2.5°	3310.6	3333.9	3304.8	3304.8	3207.1	3155.9	3058.2	2983.7	2849.9	2826.7
5°	3913.2	3942.2	3901.5	3884.1	3768.9	3663.1	3499.0	3337.3	3098.9	3074.5
7.5°	4379.6	4416.8	4380.8	4362.2	4259.8	4141.2	3949.2	3723.5	3387.4	3339.7
10°	4760.0	4765.8	4754.2	4761.2	4680.9	4583.2	4386.6	4123.7	3703.8	3638.6
12.5°	4975.2	5002.0	5025.2	5067.1	5053.1	4992.6	4815.8	4501.8	4038.8	3955.0
15°	5076.4	5122.9	5175.3	5271.8	5349.8	5364.9	5229.9	4907.7	4379.6	4278.4
17.5°	5112.5	5156.7	5239.3	5378.8	5546.4	5659.2	5598.7	5302.1	4717.0	4600.6
20°	5295.1	5307.9	5357.9	5490.5	5672.0	5859.3	5904.6	5681.3	5050.8	4919.4
22.5°	5685.9	5660.3	5674.3	5734.8	5865.1	6046.5	6150.1	6016.3	5394.0	5242.7
25°	6331.5	6257.1	6182.6	6112.9	6179.2	6281.5	6399.0	6351.3	5753.4	5561.5
27.5°	7147.0	7056.2	6892.2	6663.1	6582.8	6618.9	6671.2	6661.9	6086.1	5891.8
30°	7949.6	7843.8	7648.3	7316.8	7105.1	7009.7	6970.2	6943.4	6447.9	6240.8
32.5°	8590.6	8506.8	8314.9	7943.8	7636.7	7473.8	7342.4	7247.0	6825.9	6618.9
35°	9151.2	9073.3	8853.5	8448.6	8114.8	7941.5	7769.3	7565.7	7219.1	7009.7
37.5°	9663.1	9585.1	9283.9	8862.8	8526.6	8406.8	8253.2	7907.7	7613.4	7415.7
40°	9986.5	9969.0	9687.5	9210.6	8861.6	8802.3	8751.1	8304.4	8050.8	7867.0
42.5°	10069.0	10107.4	9884.1	9492.1	9159.4	9111.7	9231.5	8753.4	8541.7	8366.1
45°	9870.1	9980.6	9834.1	9567.7	9371.1	9345.5	9657.3	9244.3	9084.9	8924.4
47.5°	9366.4	9553.7	9493.2	9456.0	9428.1	9538.6	10031.8	9765.4	9700.3	9560.7
50°	8349.8	8704.6	8810.4	9045.4	9315.3	9688.7	10372.7	10334.3	10419.2	10278.4
52.5°	6592.1	7080.7	7694.9	8283.5	8968.6	9638.6	10747.2	11150.9	11509.1	11432.4
55°	5441.7	5661.5	6133.8	7213.3	8296.3	9428.1	10915.9	11810.4	12591.0	12522.3
57.5°	4557.6	4754.2	5045.0	5946.5	7279.6	8950.0	11020.6	12212.9	13331.9	13325.0
60°	3609.5	3817.8	4115.6	4754.2	6091.9	8124.1	10997.3	12671.2	14277.7	14335.8
62.5°	2539.4	2768.5	3098.9	3694.5	4878.6	7053.9	10522.7	13002.8	15390.9	15549.1
65°	1669.3	1820.5	2069.4	2583.6	3635.1	5677.8	9616.5	13045.8	16582.1	16849.6
67.5°	1170.2	1228.4	1375.0	1654.1	2396.3	4354.0	8173.0	12600.3	17376.6	17677.8
70°	913.1	942.2	1016.7	1128.3	1505.2	2927.9	6262.9	11441.7	17206.7	17520.8
72.5°	788.7	816.6	844.5	858.5	1009.7	1807.7	4242.4	9566.5	15607.3	15820.1
75°	715.4	722.4	745.6	741.0	770.1	1172.6	2448.6	6970.2	12314.1	12240.8
77.5°	601.4	610.7	649.1	643.3	684.0	801.5	1271.4	4498.3	7983.3	7485.5
80°	509.5	514.2	556.0	549.1	594.4	580.5	649.1	2292.8	3386.2	2868.6
82.5°	176.8	218.7	424.6	437.4	453.7	351.3	374.6	935.2	1034.1	792.2
85°	86.1	91.9	216.4	307.1	305.9	176.8	182.6	333.9	325.7	255.9
87.5°	14.0	17.4	25.6	119.8	95.4	46.5	62.8	65.1	67.5	58.2
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°
2644.1	0°	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1	2644.1
2738.3	2.5°	2673.1	2615.0	2492.8	2380.0	2291.6	2206.7	2159.0	2118.3	2095.0	2090.4
2866.2	5°	2745.3	2625.4	2403.3	2216.0	2093.8	2003.1	1955.4	1925.2	1910.0	1900.7
3038.4	7.5°	2848.8	2673.1	2356.7	2143.9	2015.9	1950.8	1926.3	1921.7	1920.5	1921.7
3246.6	10°	2991.9	2751.1	2352.1	2126.4	2019.4	1983.3	1982.2	1983.3	1988.0	1989.1
3473.4	12.5°	3146.6	2831.3	2370.7	2141.5	2063.6	2043.8	2040.3	2039.2	2042.7	2045.0
3702.6	15°	3315.2	2937.2	2402.1	2174.1	2112.5	2091.5	2088.0	2081.0	2079.9	2078.7
3943.4	17.5°	3488.6	3041.9	2437.0	2209.0	2143.9	2114.8	2102.0	2085.7	2072.9	2069.4
4192.3	20°	3664.2	3145.4	2461.4	2226.5	2146.2	2105.5	2079.9	2052.0	2029.9	2017.1
4443.6	22.5°	3851.5	3253.6	2476.5	2221.8	2125.2	2069.4	2022.9	1990.3	1956.6	1934.5
4697.2	25°	4034.1	3347.8	2475.4	2197.4	2084.5	2013.6	1954.3	1912.4	1865.8	1842.6
4958.9	27.5°	4209.8	3432.7	2446.3	2154.3	2026.4	1947.3	1876.3	1826.3	1780.9	1758.8
5223.0	30°	4391.2	3503.7	2400.9	2091.5	1957.7	1870.5	1792.6	1749.5	1708.8	1687.9
5502.1	32.5°	4571.6	3568.8	2337.0	2013.6	1878.6	1794.9	1718.1	1678.6	1654.1	1654.1
5802.3	35°	4762.3	3614.2	2252.0	1922.8	1794.9	1714.6	1654.1	1630.9	1628.5	1614.6
6119.8	37.5°	4963.6	3643.3	2148.5	1829.8	1712.3	1636.7	1618.1	1590.2	1566.9	1536.6
6468.8	40°	5175.3	3672.4	2024.0	1733.2	1625.1	1583.2	1575.0	1537.8	1471.5	1397.1
6864.3	42.5°	5432.4	3692.1	1894.9	1636.7	1533.2	1519.2	1530.8	1466.9	1361.0	1305.2
7341.2	45°	5730.1	3724.7	1776.3	1541.3	1438.9	1438.9	1487.8	1404.0	1316.8	1281.9
7885.6	47.5°	6116.3	3800.3	1665.8	1436.6	1351.7	1375.0	1392.4	1328.4	1279.6	1236.5
8548.7	50°	6674.7	3981.8	1551.8	1330.8	1285.4	1331.9	1307.5	1270.3	1213.3	1178.4
9602.6	52.5°	7368.0	4088.8	1450.6	1235.4	1228.4	1274.9	1240.0	1205.1	1162.1	1115.6
10401.7	55°	7840.3	4108.6	1365.6	1165.6	1190.0	1185.3	1172.6	1141.1	1117.9	1056.2
11190.4	57.5°	8368.4	4148.1	1295.9	1123.7	1165.6	1114.4	1109.7	1083.0	1052.7	1010.9
12152.4	60°	9000.0	4209.8	1235.4	1107.4	1144.6	1067.9	1044.6	1034.1	1003.9	982.9
13309.8	62.5°	9688.7	4265.6	1173.7	1109.7	1120.2	1022.5	987.6	984.1	965.5	958.5
14396.3	65°	10158.6	4113.2	1096.9	1107.4	1081.8	976.0	931.8	930.6	915.5	913.1
14867.4	67.5°	9994.6	3630.5	993.4	1074.8	1042.3	929.4	880.6	875.9	856.1	857.3
14375.4	70°	9173.3	2941.8	850.3	994.6	993.4	887.6	827.1	811.9	785.2	789.8
12499.1	72.5°	7633.2	2179.9	658.4	860.8	915.5	849.2	765.4	741.0	707.3	711.9
9226.9	75°	5512.6	1482.0	479.3	654.9	796.8	803.8	704.9	663.0	622.3	629.3
5135.7	77.5°	2820.9	839.9	352.5	451.3	625.8	730.5	650.3	594.4	585.1	650.3
1480.8	80°	920.1	421.1	244.3	316.4	410.6	597.9	570.0	506.0	503.7	518.8
310.6	82.5°	274.5	178.0	157.0	208.2	226.8	458.3	492.1	382.7	329.2	346.6
103.5	85°	94.2	86.1	89.6	103.5	108.2	268.7	344.3	253.6	239.6	264.1
23.3	87.5°	22.1	30.2	25.6	23.3	23.3	65.1	133.8	105.9	146.6	97.7
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>
2644.1
2090.4
1899.6
1925.2
1990.3
2046.1
2077.6
2072.9
2021.7
1935.6
1842.6
1757.7
1686.7
1655.3
1611.1
1532.0
1386.6
1306.3
1287.7
1235.4
1174.9
1106.2
1057.4
996.9
988.8
958.5
912.0
857.3
794.5
710.7
631.6
640.9
445.5
358.3
260.6
94.2
0.0

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