

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: P951165

Luminaire Tested: **GALN-SB5B-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951165
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-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17635 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

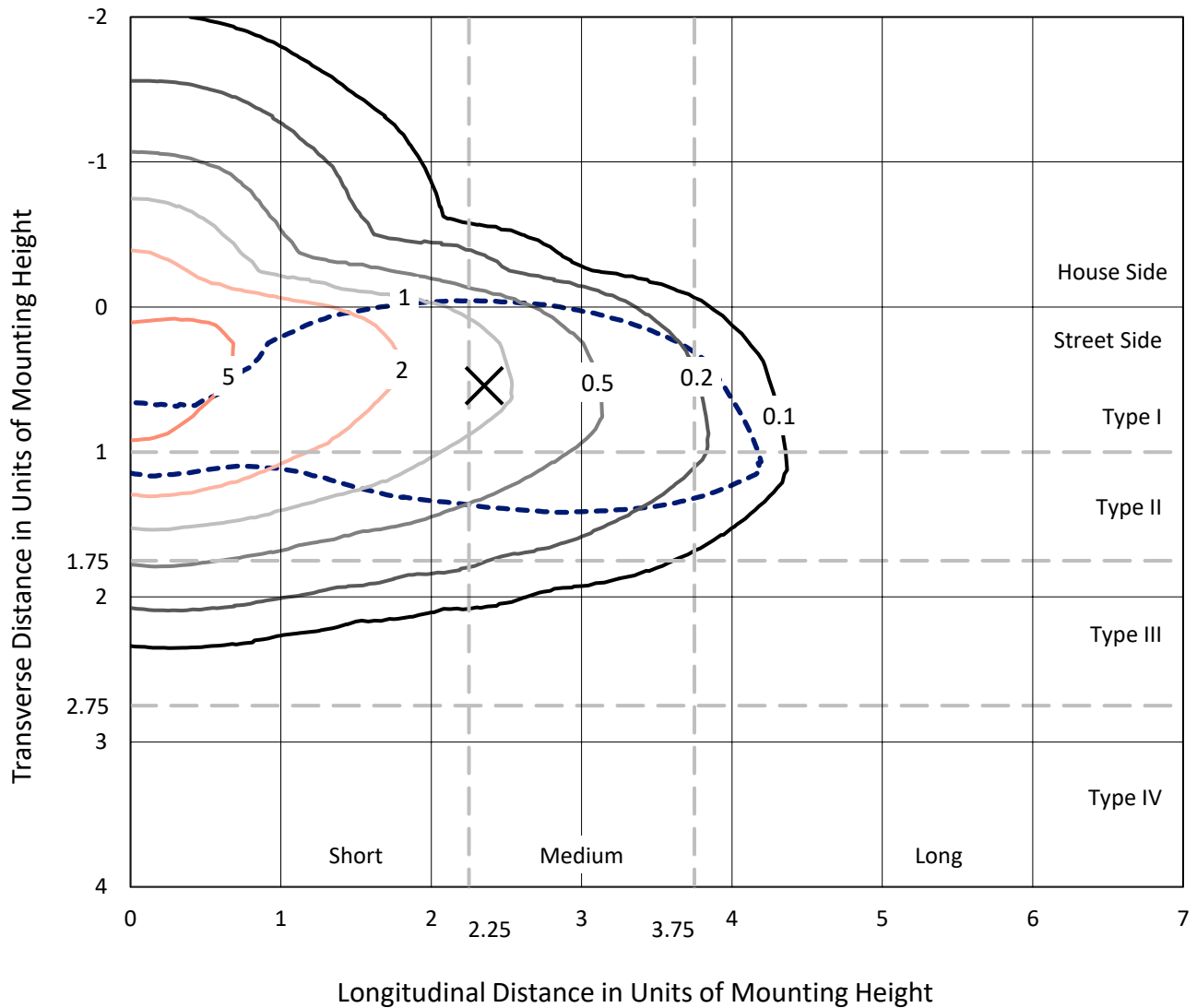
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

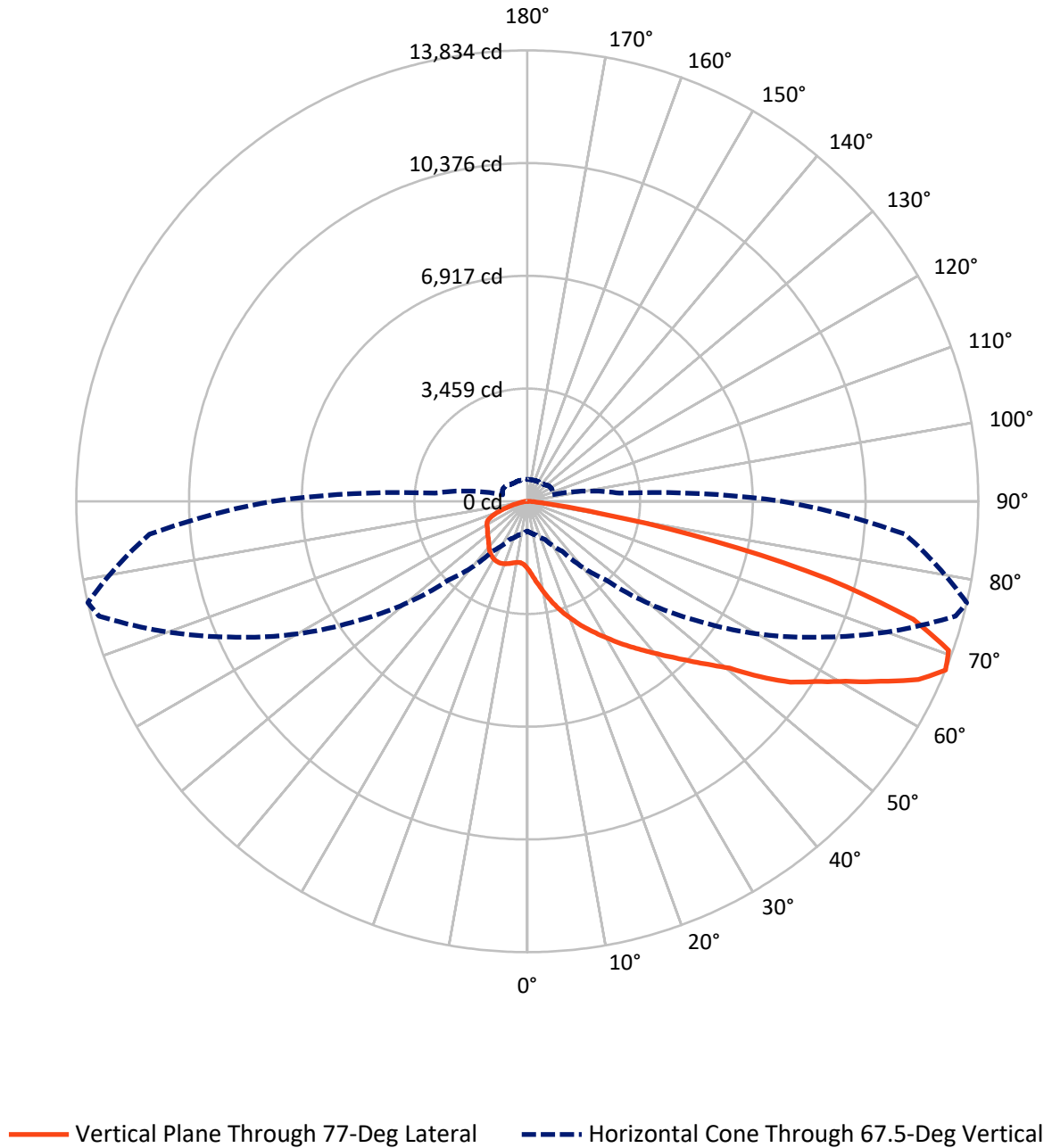
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	3335.8	0.0	3335.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	14299.2	0.0	14299.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	17635.0	0.0	17635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.3
10°-20°	796.8	4.5
20°-30°	1504.4	8.5
30°-40°	2423.6	13.7
40°-50°	3315.0	18.8
50°-60°	3739.3	21.2
60°-70°	3490.2	19.8
70°-80°	1913.2	10.8
80°-90°	230.8	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°	17635.0	100.0
0°-180°	17635.0	100.0

Coefficient of Utilization



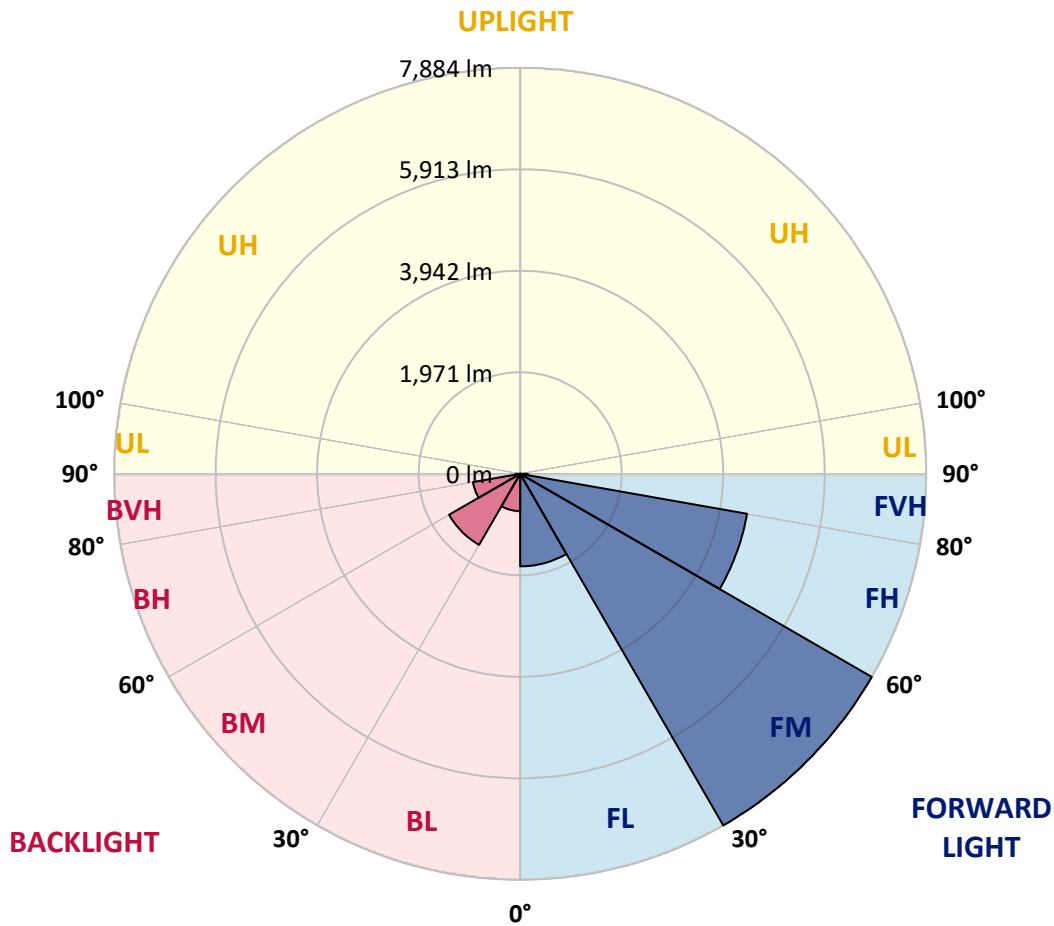
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.7	10.2			
FM (30°-60°)	7884.4	44.7			
FH (60°-80°)	4472.8	25.4			G2/5000
FVH (80°-90°)	144.3	0.8			G2/225
BL (0°-30°)	725.3	4.1	B2/1000		
BM (30°-60°)	1593.4	9.0	B2/2500		
BH (60°-80°)	930.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	86.5	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°	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1
2.5°	2590.7	2608.9	2586.2	2586.2	2509.7	2469.7	2393.2	2334.9	2230.3	2212.1
5°	3062.3	3085.0	3053.2	3039.5	2949.4	2866.6	2738.2	2611.7	2425.1	2405.9
7.5°	3427.3	3456.4	3428.2	3413.7	3333.6	3240.7	3090.5	2913.9	2650.8	2613.5
10°	3725.0	3729.5	3720.4	3725.9	3663.1	3586.6	3432.8	3227.0	2898.4	2847.4
12.5°	3893.4	3914.3	3932.5	3965.3	3954.4	3907.0	3768.7	3522.9	3160.6	3095.1
15°	3972.6	4009.0	4050.0	4125.5	4186.5	4198.3	4092.8	3840.6	3427.3	3348.1
17.5°	4000.8	4035.4	4100.0	4209.3	4340.4	4428.7	4381.3	4149.2	3691.3	3600.3
20°	4143.7	4153.7	4192.9	4296.7	4438.7	4585.2	4620.7	4446.0	3952.6	3849.7
22.5°	4449.6	4429.6	4440.5	4487.8	4589.8	4731.8	4812.8	4708.1	4221.1	4102.8
25°	4954.8	4896.6	4838.3	4783.7	4835.6	4915.7	5007.6	4970.3	4502.4	4352.2
27.5°	5592.9	5521.9	5393.6	5214.3	5151.4	5179.7	5220.6	5213.3	4762.7	4610.7
30°	6221.1	6138.2	5985.3	5725.8	5560.2	5485.5	5454.6	5433.6	5045.8	4883.8
32.5°	6722.6	6657.1	6506.9	6216.5	5976.2	5848.7	5745.9	5671.2	5341.7	5179.7
35°	7161.4	7100.4	6928.4	6611.6	6350.3	6214.7	6080.0	5920.7	5649.4	5485.5
37.5°	7561.9	7500.9	7265.2	6935.6	6672.6	6578.8	6458.6	6188.3	5958.0	5803.2
40°	7815.0	7801.4	7581.1	7207.8	6934.7	6888.3	6848.3	6498.7	6300.3	6156.4
42.5°	7879.6	7909.7	7734.9	7428.1	7167.8	7130.5	7224.2	6850.1	6684.4	6546.9
45°	7724.0	7810.5	7695.8	7487.3	7333.5	7313.4	7557.4	7234.2	7109.5	6983.9
47.5°	7329.8	7476.4	7429.0	7399.9	7378.1	7464.5	7850.5	7642.0	7591.1	7481.8
50°	6534.2	6811.8	6894.7	7078.6	7289.8	7582.0	8117.2	8087.2	8153.6	8043.5
52.5°	5158.7	5541.1	6021.7	6482.3	7018.5	7542.8	8410.3	8726.2	9006.6	8946.5
55°	4258.4	4430.5	4800.1	5644.8	6492.3	7378.1	8542.3	9242.4	9853.2	9799.5
57.5°	3566.6	3720.4	3948.0	4653.5	5696.7	7003.9	8624.3	9557.3	10433.1	10427.6
60°	2824.7	2987.6	3220.7	3720.4	4767.3	6357.6	8606.1	9916.0	11173.1	11218.7
62.5°	1987.2	2166.5	2425.1	2891.1	3817.8	5520.1	8234.7	10175.4	12044.3	12168.1
65°	1306.3	1424.6	1619.4	2021.8	2844.7	4443.2	7525.5	10209.1	12976.5	13185.8
67.5°	915.8	961.3	1076.0	1294.5	1875.2	3407.3	6395.8	9860.5	13598.2	13834.0
70°	714.6	737.4	795.6	883.0	1177.9	2291.2	4901.1	8953.8	13465.3	13711.1
72.5°	617.2	639.0	660.9	671.8	790.1	1414.6	3319.9	7486.4	12213.6	12380.2
75°	559.8	565.3	583.5	579.9	602.6	917.6	1916.2	5454.6	9636.5	9579.2
77.5°	470.6	477.9	508.0	503.4	535.3	627.2	995.0	3520.2	6247.5	5857.8
80°	398.7	402.4	435.1	429.7	465.2	454.2	508.0	1794.2	2649.9	2244.8
82.5°	138.4	171.1	332.3	342.3	355.0	274.9	293.1	731.9	809.3	619.9
85°	67.4	71.9	169.3	240.3	239.4	138.4	142.9	261.3	254.9	200.3
87.5°	10.9	13.7	20.0	93.8	74.6	36.4	49.2	51.0	52.8	45.5
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°
2069.1	0°	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1
2142.9	2.5°	2091.9	2046.4	1950.8	1862.5	1793.3	1726.9	1689.5	1657.7	1639.5	1635.8
2243.0	5°	2148.3	2054.6	1880.7	1734.1	1638.6	1567.6	1530.2	1506.6	1494.7	1487.4
2377.7	7.5°	2229.3	2091.9	1844.3	1677.7	1577.6	1526.6	1507.5	1503.8	1502.9	1503.8
2540.7	10°	2341.3	2152.9	1840.6	1664.0	1580.3	1552.1	1551.2	1552.1	1555.7	1556.6
2718.2	12.5°	2462.4	2215.7	1855.2	1675.9	1614.9	1599.4	1596.7	1595.8	1598.5	1600.3
2897.5	15°	2594.4	2298.5	1879.8	1701.4	1653.1	1636.7	1634.0	1628.5	1627.6	1626.7
3085.9	17.5°	2730.0	2380.5	1907.1	1728.7	1677.7	1654.9	1644.9	1632.2	1622.2	1619.4
3280.8	20°	2867.5	2461.5	1926.2	1742.3	1679.5	1647.7	1627.6	1605.8	1588.5	1578.5
3477.4	22.5°	3014.0	2546.1	1938.0	1738.7	1663.1	1619.4	1583.0	1557.5	1531.1	1513.8
3675.8	25°	3157.0	2619.9	1937.1	1719.6	1631.3	1575.7	1529.3	1496.5	1460.1	1441.9
3880.6	27.5°	3294.4	2686.3	1914.4	1685.9	1585.8	1523.9	1468.3	1429.2	1393.7	1376.4
4087.3	30°	3436.4	2741.9	1878.9	1636.7	1532.1	1463.8	1402.8	1369.1	1337.2	1320.9
4305.8	32.5°	3577.5	2792.8	1828.8	1575.7	1470.1	1404.6	1344.5	1313.6	1294.5	1294.5
4540.6	35°	3726.8	2828.3	1762.4	1504.7	1404.6	1341.8	1294.5	1276.3	1274.4	1263.5
4789.1	37.5°	3884.3	2851.1	1681.3	1431.9	1340.0	1280.8	1266.2	1244.4	1226.2	1202.5
5062.2	40°	4050.0	2873.8	1583.9	1356.4	1271.7	1238.9	1232.6	1203.4	1151.5	1093.3
5371.7	42.5°	4251.1	2889.3	1482.9	1280.8	1199.8	1188.9	1198.0	1147.9	1065.1	1021.4
5745.0	45°	4484.2	2914.8	1390.0	1206.2	1126.1	1126.1	1164.3	1098.7	1030.5	1003.2
6171.0	47.5°	4786.4	2974.0	1303.6	1124.2	1057.8	1076.0	1089.6	1039.6	1001.3	967.7
6689.9	50°	5223.4	3116.0	1214.4	1041.4	1005.9	1042.3	1023.2	994.1	949.5	922.1
7514.6	52.5°	5765.9	3199.7	1135.2	966.7	961.3	997.7	970.4	943.1	909.4	873.0
8140.0	55°	6135.5	3215.2	1068.7	912.1	931.2	927.6	917.6	893.0	874.8	826.6
8757.2	57.5°	6548.8	3246.2	1014.1	879.4	912.1	872.1	868.4	847.5	823.8	791.1
9510.0	60°	7043.1	3294.4	966.7	866.6	895.7	835.7	817.5	809.3	785.6	769.2
10415.8	62.5°	7582.0	3338.1	918.5	868.4	876.6	800.2	772.9	770.1	755.6	750.1
11266.0	65°	7949.7	3218.9	858.4	866.6	846.6	763.7	729.2	728.2	716.4	714.6
11634.7	67.5°	7821.4	2841.1	777.4	841.1	815.6	727.3	689.1	685.5	670.0	670.9
11249.6	70°	7178.7	2302.2	665.4	778.3	777.4	694.6	647.2	635.4	614.5	618.1
9781.3	72.5°	5973.5	1705.9	515.2	673.6	716.4	664.5	599.0	579.9	553.5	557.1
7220.6	75°	4314.0	1159.7	375.0	512.5	623.6	629.0	551.6	518.9	487.0	492.5
4019.0	77.5°	2207.5	657.2	275.8	353.2	489.7	571.7	508.9	465.2	457.9	508.9
1158.8	80°	720.1	329.5	191.2	247.6	321.3	467.9	446.1	396.0	394.2	406.0
243.1	82.5°	214.8	139.3	122.9	162.9	177.5	358.7	385.1	299.5	257.6	271.3
81.0	85°	73.7	67.4	70.1	81.0	84.7	210.3	269.5	198.4	187.5	206.6
18.2	87.5°	17.3	23.7	20.0	18.2	18.2	51.0	104.7	82.8	114.7	76.5
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>
2069.1
1635.8
1486.5
1506.6
1557.5
1601.2
1625.8
1622.2
1582.1
1514.8
1441.9
1375.5
1319.9
1295.4
1260.8
1198.9
1085.1
1022.3
1007.7
966.7
919.4
865.7
827.5
780.1
773.8
750.1
713.7
670.9
621.7
556.2
494.3
501.6
348.6
280.4
203.9
73.7
0.0

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