

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: P947322

Luminaire Tested: **GALN-SB2C-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947322
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-SB2C-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10612 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

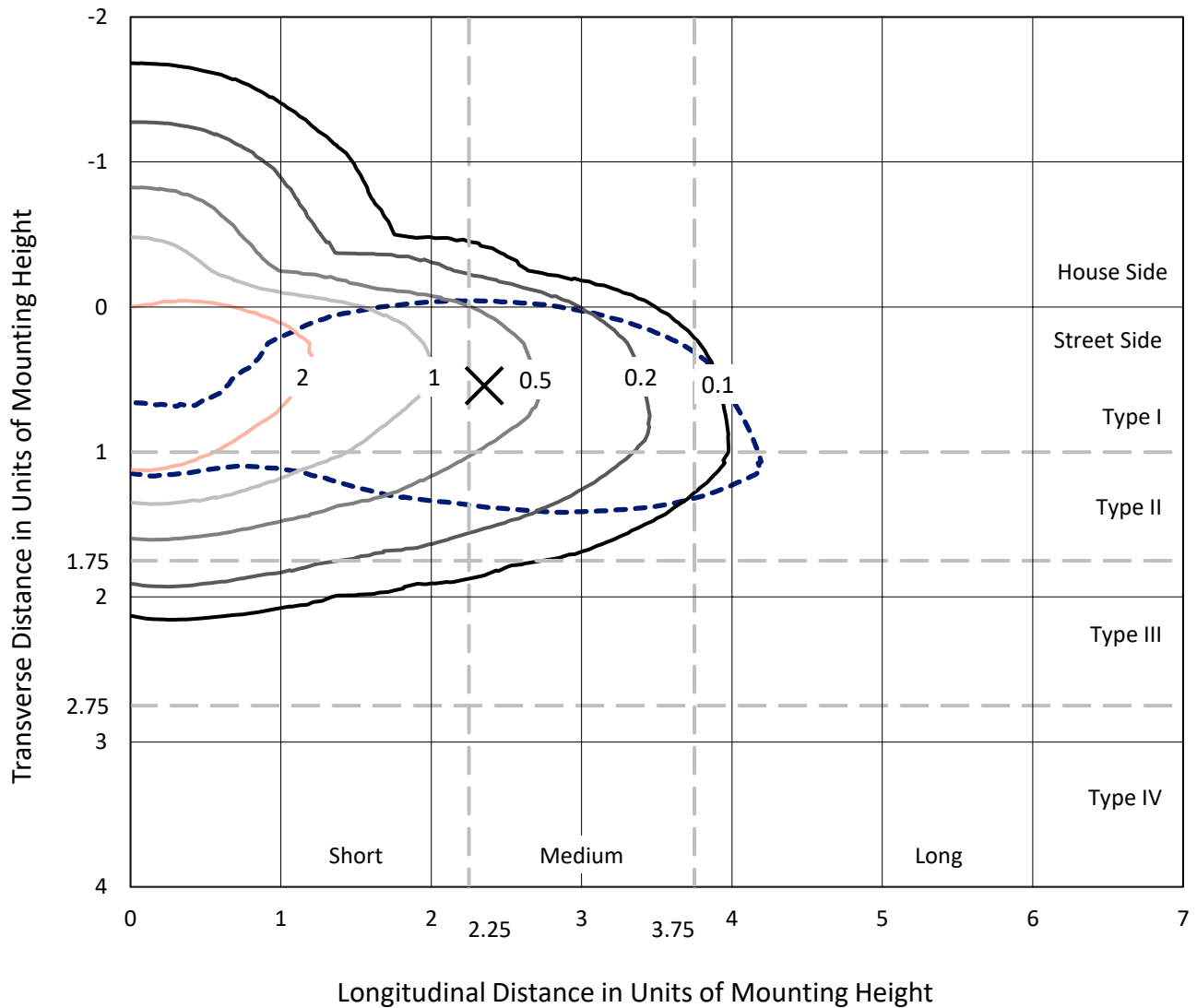
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

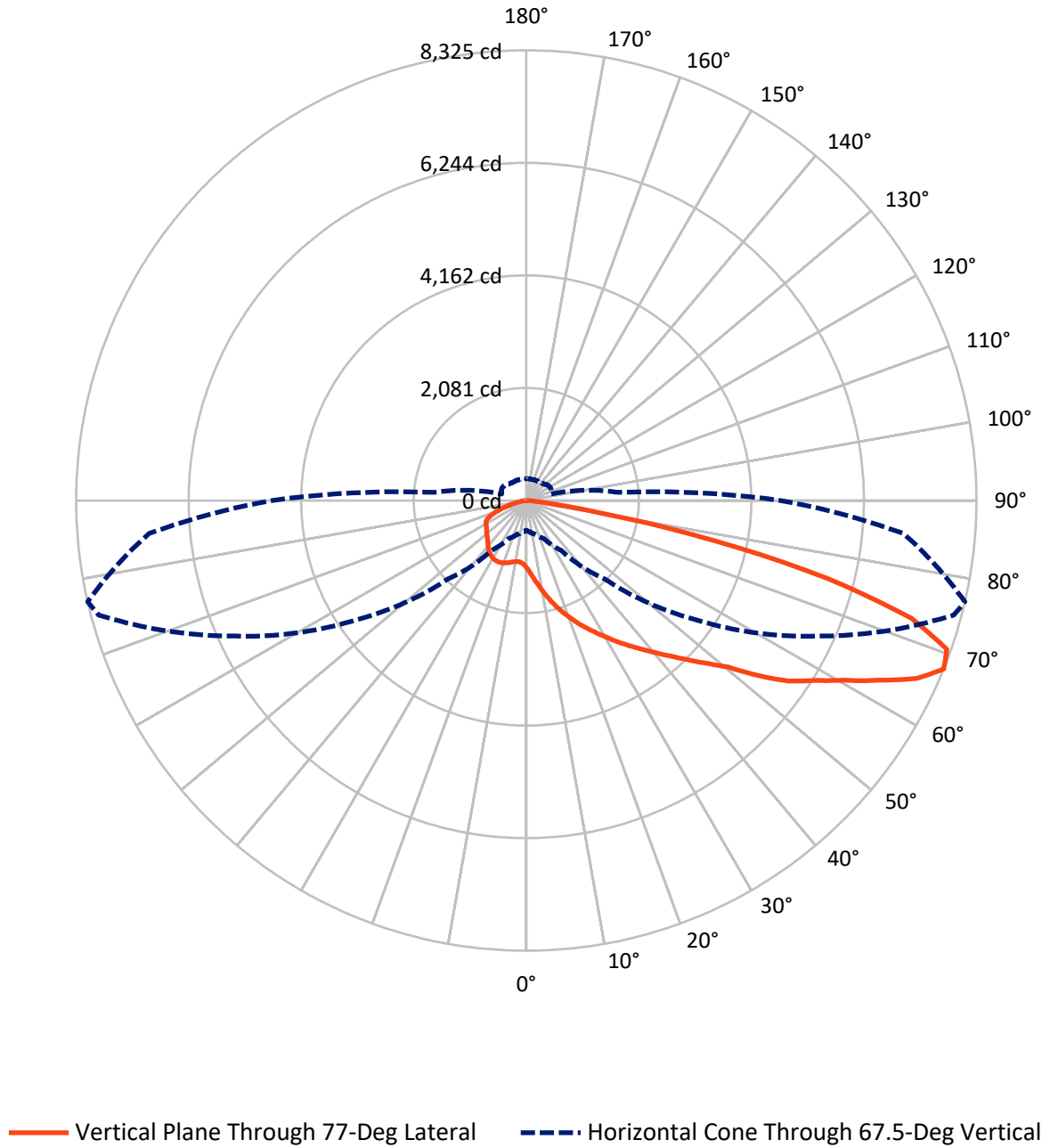
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	2007.4	0.0	2007.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8604.6	0.0	8604.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	10612.0	0.0	10612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.3
10°-20°	479.5	4.5
20°-30°	905.3	8.5
30°-40°	1458.4	13.7
40°-50°	1994.8	18.8
50°-60°	2250.2	21.2
60°-70°	2100.3	19.8
70°-80°	1151.3	10.8
80°-90°	138.9	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°	10612.0	100.0
0°-180°	10612.0	100.0

Coefficient of Utilization



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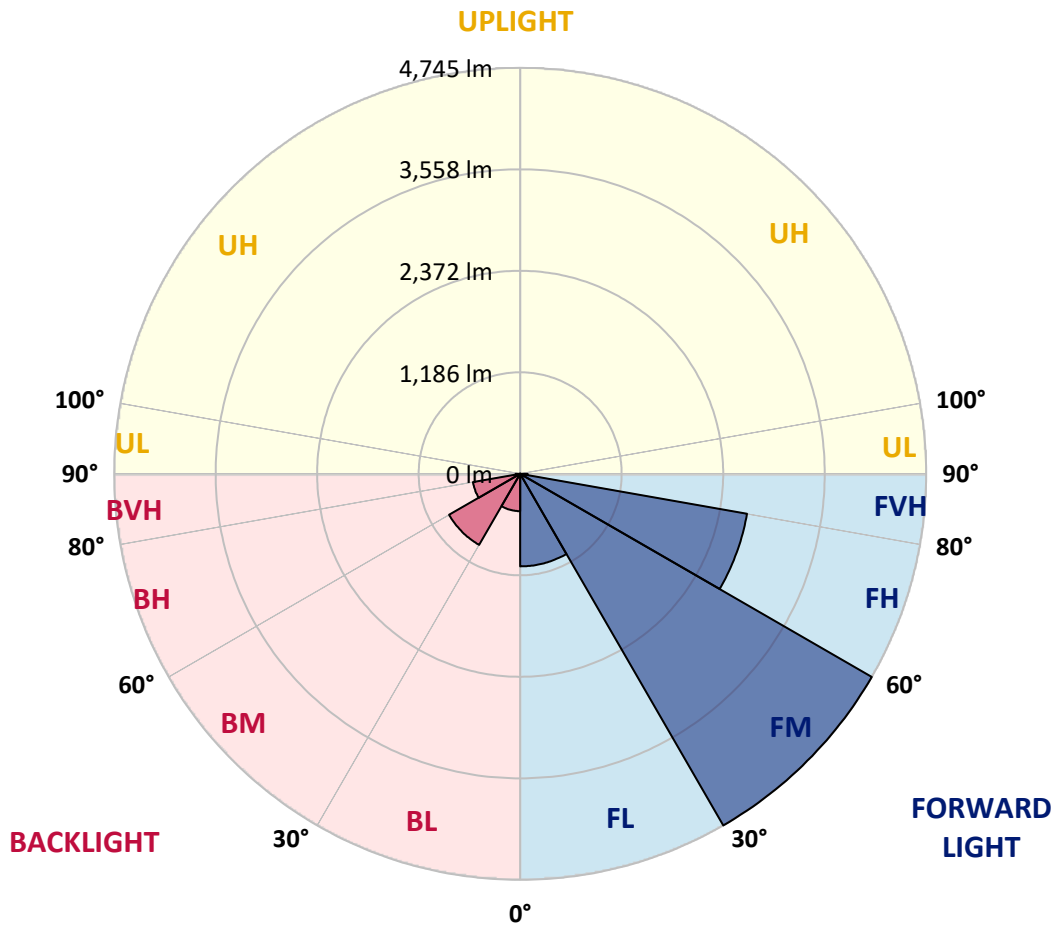
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.8	10.2			
FM (30°-60°)	4744.5	44.7			
FH (60°-80°)	2691.5	25.4			G2/5000
FVH (80°-90°)	86.8	0.8			G1/100
BL (0°-30°)	436.4	4.1	B1/500		
BM (30°-60°)	958.9	9.0	B1/1000		
BH (60°-80°)	560.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	52.0	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°	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1559.0	1570.0	1556.3	1556.3	1510.2	1486.1	1440.1	1405.1	1342.1	1331.1
5°	1842.8	1856.4	1837.3	1829.1	1774.8	1725.0	1647.7	1571.6	1459.3	1447.8
7.5°	2062.4	2079.9	2063.0	2054.2	2006.0	1950.1	1859.7	1753.5	1595.2	1572.7
10°	2241.5	2244.3	2238.8	2242.1	2204.3	2158.3	2065.7	1941.9	1744.2	1713.5
12.5°	2342.9	2355.5	2366.4	2386.2	2379.6	2351.1	2267.8	2119.9	1901.9	1862.5
15°	2390.5	2412.4	2437.1	2482.6	2519.3	2526.4	2462.8	2311.1	2062.4	2014.8
17.5°	2407.5	2428.3	2467.2	2533.0	2611.8	2665.0	2636.5	2496.8	2221.3	2166.5
20°	2493.5	2499.5	2523.1	2585.5	2671.0	2759.2	2780.6	2675.4	2378.5	2316.6
22.5°	2677.6	2665.5	2672.1	2700.6	2761.9	2847.4	2896.1	2833.1	2540.1	2468.9
25°	2981.6	2946.5	2911.5	2878.6	2909.8	2958.0	3013.4	2990.9	2709.3	2619.0
27.5°	3365.6	3322.9	3245.6	3137.7	3099.9	3116.9	3141.6	3137.2	2866.0	2774.5
30°	3743.6	3693.7	3601.7	3445.6	3345.9	3301.0	3282.3	3269.7	3036.4	2938.9
32.5°	4045.4	4006.0	3915.6	3740.8	3596.2	3519.5	3457.6	3412.7	3214.4	3116.9
35°	4309.4	4272.7	4169.2	3978.6	3821.4	3739.7	3658.7	3562.8	3399.6	3301.0
37.5°	4550.5	4513.8	4371.9	4173.6	4015.3	3958.8	3886.5	3723.8	3585.3	3492.1
40°	4702.7	4694.5	4562.0	4337.4	4173.0	4145.1	4121.0	3910.6	3791.2	3704.7
42.5°	4741.6	4759.7	4654.5	4469.9	4313.3	4290.8	4347.2	4122.1	4022.4	3939.7
45°	4648.0	4700.0	4631.0	4505.5	4413.0	4400.9	4547.7	4353.3	4278.2	4202.6
47.5°	4410.8	4499.0	4470.5	4453.0	4439.8	4491.8	4724.1	4598.7	4568.0	4502.3
50°	3932.0	4099.1	4148.9	4259.6	4386.7	4562.5	4884.6	4866.5	4906.5	4840.2
52.5°	3104.3	3334.4	3623.6	3900.8	4223.4	4539.0	5061.0	5251.1	5419.8	5383.6
55°	2562.5	2666.1	2888.5	3396.8	3906.8	4439.8	5140.4	5561.7	5929.2	5896.9
57.5°	2146.2	2238.8	2375.7	2800.3	3428.0	4214.7	5189.7	5751.2	6278.2	6274.9
60°	1699.8	1797.8	1938.1	2238.8	2868.8	3825.7	5178.8	5967.0	6723.5	6750.9
62.5°	1195.8	1303.7	1459.3	1739.8	2297.4	3321.8	4955.3	6123.2	7247.8	7322.3
65°	786.1	857.3	974.5	1216.6	1711.8	2673.7	4528.5	6143.4	7808.7	7934.7
67.5°	551.1	578.5	647.5	779.0	1128.4	2050.4	3848.7	5933.6	8182.8	8324.7
70°	430.0	443.7	478.8	531.4	708.8	1378.8	2949.3	5388.0	8102.8	8250.8
72.5°	371.4	384.5	397.7	404.3	475.5	851.3	1997.8	4505.0	7349.6	7449.9
75°	336.9	340.2	351.1	348.9	362.6	552.2	1153.1	3282.3	5798.9	5764.4
77.5°	283.2	287.6	305.7	302.9	322.1	377.4	598.7	2118.3	3759.5	3525.0
80°	239.9	242.1	261.8	258.6	279.9	273.3	305.7	1079.7	1594.6	1350.8
82.5°	83.3	103.0	199.9	206.0	213.6	165.4	176.4	440.4	487.0	373.0
85°	40.5	43.3	101.9	144.6	144.1	83.3	86.0	157.2	153.4	120.5
87.5°	6.6	8.2	12.1	56.4	44.9	21.9	29.6	30.7	31.8	27.4
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°
1245.1	0°	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1	1245.1
1289.5	2.5°	1258.8	1231.4	1173.9	1120.8	1079.1	1039.1	1016.7	997.5	986.6	984.4
1349.7	5°	1292.8	1236.4	1131.7	1043.5	986.0	943.3	920.8	906.6	899.5	895.1
1430.8	7.5°	1341.5	1258.8	1109.8	1009.6	949.3	918.6	907.1	904.9	904.4	904.9
1528.9	10°	1408.9	1295.5	1107.6	1001.4	951.0	934.0	933.4	934.0	936.2	936.7
1635.7	12.5°	1481.8	1333.3	1116.4	1008.5	971.8	962.5	960.8	960.3	961.9	963.0
1743.6	15°	1561.2	1383.2	1131.2	1023.8	994.8	984.9	983.3	980.0	979.4	978.9
1857.0	17.5°	1642.8	1432.5	1147.6	1040.2	1009.6	995.9	989.8	982.2	976.2	974.5
1974.2	20°	1725.5	1481.2	1159.1	1048.5	1010.7	991.5	979.4	966.3	955.9	949.9
2092.5	22.5°	1813.7	1532.2	1166.2	1046.3	1000.8	974.5	952.6	937.3	921.4	911.0
2212.0	25°	1899.7	1576.5	1165.7	1034.8	981.6	948.2	920.3	900.6	878.6	867.7
2335.2	27.5°	1982.4	1616.5	1152.0	1014.5	954.2	917.0	883.6	860.0	838.7	828.3
2459.6	30°	2067.9	1649.9	1130.6	984.9	921.9	880.8	844.1	823.9	804.7	794.8
2591.0	32.5°	2152.8	1680.6	1100.5	948.2	884.7	845.2	809.1	790.5	779.0	779.0
2732.4	35°	2242.6	1702.0	1060.5	905.5	845.2	807.4	779.0	768.0	766.9	760.3
2881.9	37.5°	2337.4	1715.7	1011.8	861.7	806.3	770.7	762.0	748.8	737.9	723.6
3046.2	40°	2437.1	1729.4	953.1	816.2	765.3	745.5	741.7	724.2	692.9	657.9
3232.5	42.5°	2558.2	1738.7	892.3	770.7	722.0	715.4	720.9	690.8	640.9	614.6
3457.1	45°	2698.4	1754.0	836.5	725.8	677.6	677.6	700.6	661.2	620.1	603.7
3713.4	47.5°	2880.3	1789.6	784.4	676.5	636.5	647.5	655.7	625.6	602.6	582.3
4025.7	50°	3143.2	1875.1	730.7	626.7	605.3	627.2	615.7	598.2	571.3	554.9
4522.0	52.5°	3469.7	1925.5	683.1	581.7	578.5	600.4	583.9	567.5	547.2	525.3
4898.3	55°	3692.1	1934.8	643.1	548.9	560.4	558.2	552.2	537.4	526.4	497.4
5269.7	57.5°	3940.8	1953.4	610.2	529.2	548.9	524.8	522.6	510.0	495.7	476.0
5722.7	60°	4238.2	1982.4	581.7	521.5	539.0	502.9	491.9	487.0	472.7	462.9
6267.8	62.5°	4562.5	2008.7	552.7	522.6	527.5	481.5	465.1	463.4	454.7	451.4
6779.4	65°	4783.8	1937.0	516.6	521.5	509.4	459.6	438.8	438.2	431.1	430.0
7001.3	67.5°	4706.6	1709.6	467.8	506.2	490.8	437.7	414.7	412.5	403.2	403.7
6769.5	70°	4319.8	1385.4	400.4	468.4	467.8	418.0	389.5	382.4	369.8	371.9
5886.0	72.5°	3594.6	1026.6	310.0	405.4	431.1	399.9	360.4	348.9	333.1	335.2
4345.0	75°	2596.0	697.9	225.7	308.4	375.2	378.5	332.0	312.2	293.1	296.4
2418.5	77.5°	1328.4	395.5	166.0	212.5	294.7	344.0	306.2	279.9	275.5	306.2
697.3	80°	433.3	198.3	115.0	149.0	193.4	281.6	268.4	238.3	237.2	244.3
146.3	82.5°	129.3	83.8	74.0	98.1	106.8	215.8	231.7	180.2	155.0	163.2
48.8	85°	44.4	40.5	42.2	48.8	50.9	126.5	162.1	119.4	112.8	124.3
11.0	87.5°	10.4	14.2	12.1	11.0	11.0	30.7	63.0	49.8	69.0	46.0
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>
1245.1
984.4
894.5
906.6
937.3
963.6
978.3
976.2
952.1
911.5
867.7
827.7
794.3
779.5
758.7
721.4
653.0
615.2
606.4
581.7
553.3
520.9
497.9
469.5
465.6
451.4
429.5
403.7
374.1
334.7
297.4
301.8
209.8
168.7
122.7
44.4
0.0

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