

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: P946607

Luminaire Tested: **GALN-SB2A-950-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5284 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

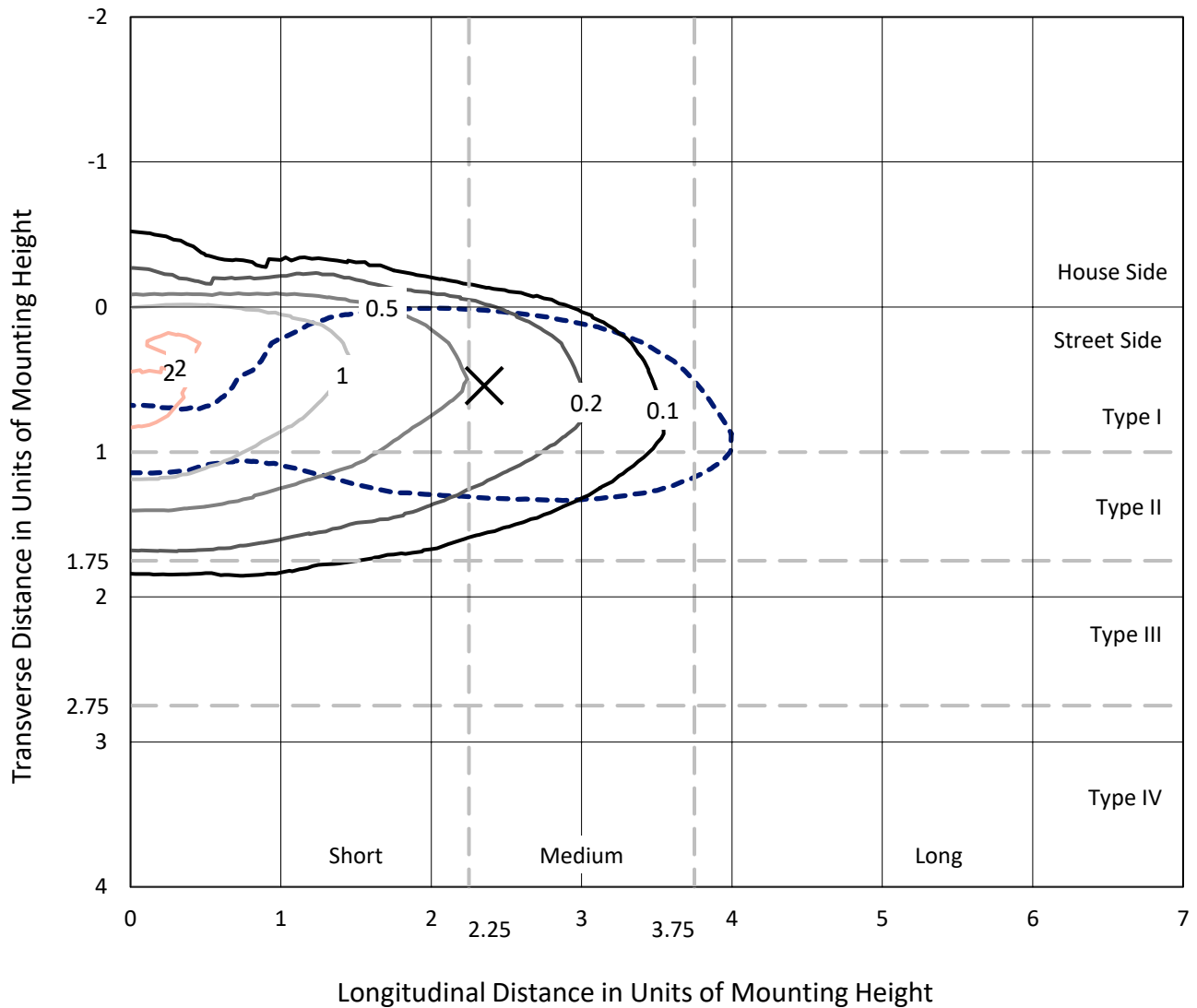
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

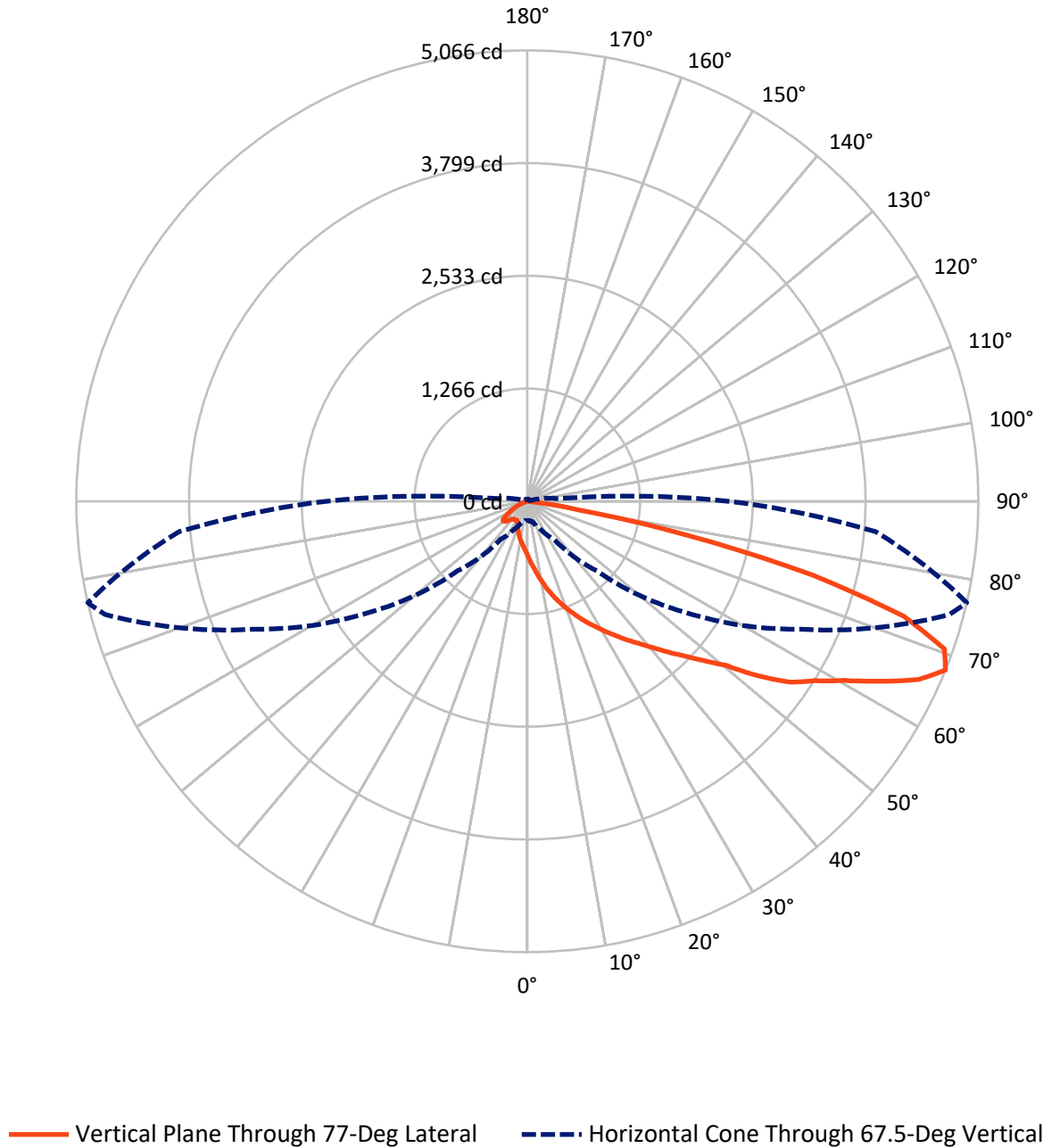
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	388.7	0.0	388.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4895.3	0.0	4895.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	5284.0	0.0	5284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	1.2
10°-20°	217.8	4.1
20°-30°	420.3	8.0
30°-40°	729.6	13.8
40°-50°	1059.3	20.0
50°-60°	1216.5	23.0
60°-70°	1056.2	20.0
70°-80°	497.5	9.4
80°-90°	24.6	0.5
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°	5284.0	100.0
0°-180°	5284.0	100.0

Coefficient of Utilization



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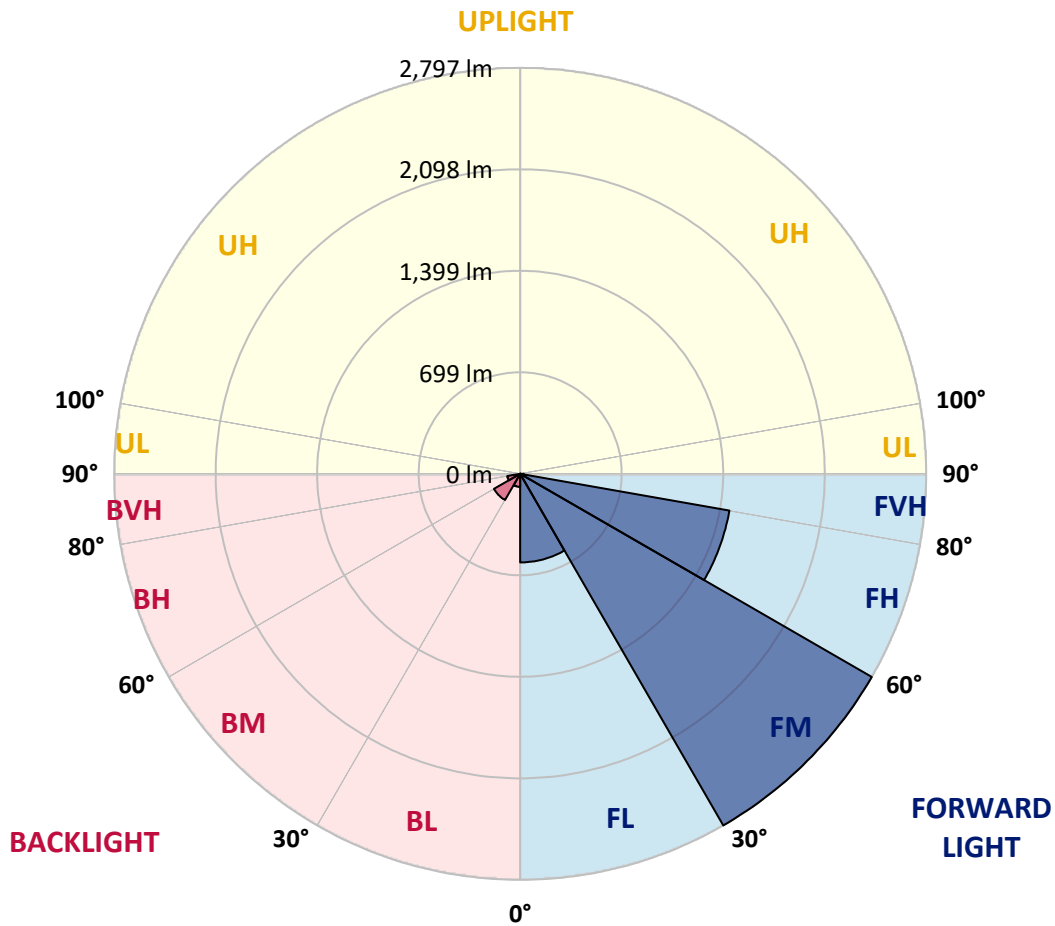
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.2	11.5			
FM (30°-60°)	2797.2	52.9			
FH (60°-80°)	1463.7	27.7			G1/1800
FVH (80°-90°)	24.2	0.5			G1/100
BL (0°-30°)	90.0	1.7	B0/110		
BM (30°-60°)	208.3	3.9	B0/220		
BH (60°-80°)	90.0	1.7	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	843.6	848.9	841.3	826.9	805.2	791.1	756.6	724.2	688.1	676.6
5°	1028.3	1032.9	1024.4	1008.6	979.8	952.2	906.9	839.0	768.5	745.8
7.5°	1165.2	1167.8	1164.5	1150.1	1122.5	1091.3	1040.8	960.4	855.7	830.8
10°	1263.6	1272.1	1271.1	1265.6	1247.2	1221.9	1168.1	1076.6	953.5	921.4
12.5°	1328.9	1338.4	1344.0	1356.5	1355.5	1339.4	1292.1	1195.3	1051.0	1013.2
15°	1347.9	1358.1	1379.4	1408.3	1433.9	1442.1	1409.0	1311.8	1158.3	1110.0
17.5°	1337.1	1352.8	1378.4	1424.1	1480.2	1517.2	1513.6	1424.4	1255.7	1200.6
20°	1361.1	1376.1	1396.2	1434.6	1499.8	1567.1	1594.0	1532.0	1352.5	1294.8
22.5°	1493.6	1491.0	1493.0	1499.2	1538.2	1604.8	1660.3	1629.8	1448.3	1389.3
25°	1703.6	1691.8	1671.8	1638.0	1628.1	1660.3	1718.0	1716.4	1549.4	1486.1
27.5°	1944.5	1942.5	1895.6	1814.2	1768.3	1755.8	1783.3	1800.7	1649.5	1581.9
30°	2175.1	2180.4	2117.0	2026.5	1942.2	1893.3	1868.3	1880.8	1751.2	1685.2
32.5°	2375.9	2381.5	2312.6	2206.6	2102.3	2043.2	1990.7	1959.9	1862.1	1790.2
35°	2545.6	2551.1	2472.1	2354.9	2243.7	2190.2	2130.8	2046.5	1973.7	1906.7
37.5°	2697.2	2695.5	2589.5	2471.4	2362.2	2319.8	2288.7	2153.1	2088.5	2023.9
40°	2786.7	2793.6	2703.1	2572.8	2466.8	2436.0	2434.0	2285.4	2221.1	2158.4
42.5°	2813.0	2825.1	2759.5	2652.5	2556.4	2522.9	2574.4	2428.4	2375.3	2314.2
45°	2765.7	2777.6	2747.7	2673.5	2617.4	2595.8	2695.2	2576.7	2540.0	2479.6
47.5°	2627.9	2642.7	2649.9	2634.2	2633.5	2655.5	2803.5	2732.9	2735.6	2673.9
50°	2361.2	2386.1	2452.4	2508.2	2594.5	2702.7	2908.8	2902.2	2956.1	2902.9
52.5°	1876.2	1911.6	2140.0	2292.6	2486.5	2693.9	3024.6	3173.9	3342.9	3265.1
55°	1507.7	1507.7	1693.4	1978.9	2275.9	2635.5	3075.2	3350.5	3606.4	3588.0
57.5°	1229.1	1243.9	1362.4	1614.7	1971.0	2496.4	3106.3	3461.4	3818.7	3805.2
60°	758.6	790.4	1014.2	1263.3	1624.2	2248.6	3086.6	3573.6	4076.3	4087.1
62.5°	427.2	439.0	538.8	908.9	1262.9	1915.6	2936.0	3636.2	4405.7	4451.6
65°	295.0	300.9	339.3	565.7	875.4	1525.1	2641.7	3597.2	4735.8	4828.6
67.5°	214.3	217.2	241.2	345.5	519.4	1105.8	2180.4	3400.3	4910.7	5065.9
70°	164.7	166.7	184.1	227.1	306.8	682.5	1583.5	3008.9	4784.0	4969.4
72.5°	133.9	135.8	149.3	168.0	203.4	403.6	959.8	2443.5	4224.9	4425.1
75°	112.9	115.5	127.6	139.8	159.5	259.2	450.2	1701.6	3177.2	3308.5
77.5°	62.7	57.7	103.7	115.8	134.5	164.1	210.7	1001.4	1779.4	1815.8
80°	39.0	40.4	82.4	93.2	103.4	82.7	96.5	385.5	616.9	586.0
82.5°	2.3	5.2	63.3	67.3	70.9	35.4	36.4	130.9	148.6	136.5
85°	0.0	0.0	28.9	23.3	24.6	10.2	10.5	30.5	20.0	21.7
87.5°	0.0	0.0	0.0	0.7	0.0	1.0	2.0	2.6	1.0	1.3
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°
609.3	0°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
640.5	2.5°	617.5	594.6	548.0	502.4	465.3	430.8	406.2	382.9	371.1	370.4
681.8	5°	636.2	588.0	494.8	412.4	346.2	293.0	258.6	234.0	221.5	217.2
732.7	7.5°	662.5	590.0	448.2	333.7	255.6	210.0	190.3	182.4	179.8	176.9
790.1	10°	695.6	594.6	406.5	268.7	201.5	178.5	170.6	167.3	165.4	163.4
854.8	12.5°	732.7	598.8	365.2	223.1	177.2	165.4	159.8	155.9	153.2	150.9
921.0	15°	768.8	601.4	322.2	191.3	164.7	155.2	149.3	145.0	141.4	138.8
986.0	17.5°	804.6	605.1	281.9	172.3	154.5	145.0	139.1	133.9	130.9	128.0
1054.3	20°	844.3	604.4	243.8	158.8	144.4	134.9	128.6	123.7	120.7	117.5
1126.4	22.5°	881.0	601.1	210.3	147.3	133.9	124.7	117.8	112.9	109.9	107.3
1200.3	25°	923.3	598.5	182.4	136.8	124.0	114.8	107.3	102.7	99.4	97.1
1274.4	27.5°	964.0	594.6	162.1	127.3	114.5	105.7	98.4	93.2	90.2	88.6
1350.9	30°	1004.1	593.6	154.5	118.1	106.0	97.1	89.9	85.0	82.7	82.0
1434.9	32.5°	1052.3	596.2	157.8	114.8	98.1	89.2	82.4	78.7	76.5	76.5
1528.4	35°	1103.8	595.5	162.7	117.8	92.9	81.4	76.1	73.8	71.5	71.5
1632.1	37.5°	1168.4	596.5	166.7	122.7	90.9	74.8	71.9	68.9	67.6	67.6
1745.6	40°	1264.9	629.0	164.7	127.0	90.2	70.2	64.3	63.3	62.3	62.3
1873.9	42.5°	1383.0	699.6	167.3	127.3	89.9	66.9	59.1	61.0	58.7	58.4
2018.6	45°	1512.3	776.7	184.1	120.4	89.6	65.3	56.4	58.7	55.1	55.1
2186.3	47.5°	1640.6	853.1	201.1	110.6	88.6	65.0	54.1	52.8	51.8	52.2
2404.8	50°	1817.5	915.5	207.7	97.1	86.3	64.3	49.9	50.2	49.5	50.2
2712.9	52.5°	2010.1	928.6	199.8	82.0	79.7	62.3	46.9	48.2	47.9	48.6
2929.8	55°	2130.2	914.5	165.0	68.2	69.6	54.5	44.0	46.6	46.6	46.6
3141.8	57.5°	2254.2	854.4	117.1	55.5	57.7	44.6	41.3	45.0	44.6	44.3
3397.0	60°	2343.4	757.3	77.1	45.6	45.9	36.7	38.4	42.3	42.0	40.4
3660.2	62.5°	2410.1	650.0	49.5	38.7	35.1	33.1	35.1	38.4	37.1	33.5
3883.3	65°	2402.5	501.4	38.1	33.1	28.9	28.9	30.5	33.5	29.5	23.6
3926.0	67.5°	2262.4	339.3	31.5	27.9	24.3	24.0	25.3	27.9	25.3	20.0
3707.5	70°	2012.0	221.8	25.3	21.7	19.4	17.7	20.3	24.0	21.3	16.1
3156.2	72.5°	1633.1	135.2	19.0	15.7	14.1	11.5	16.1	19.7	17.1	11.8
2194.8	75°	1056.6	68.9	13.1	10.2	7.5	6.9	11.8	14.8	11.8	7.2
973.9	77.5°	404.2	28.9	7.2	4.6	3.9	3.3	6.6	8.9	4.9	1.6
188.7	80°	77.8	12.1	3.6	2.3	2.0	1.3	1.0	0.7	0.0	0.0
33.5	82.5°	13.5	3.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
6.6	85°	4.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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180°
609.3
369.8
216.6
176.2
162.7
150.3
138.5
127.6
117.1
107.0
96.8
88.6
81.7
76.5
71.5
67.6
62.3
58.1
55.1
52.2
50.2
48.6
46.6
44.3
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