

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: P950872

Luminaire Tested: **GALN-SB5A-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12549 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

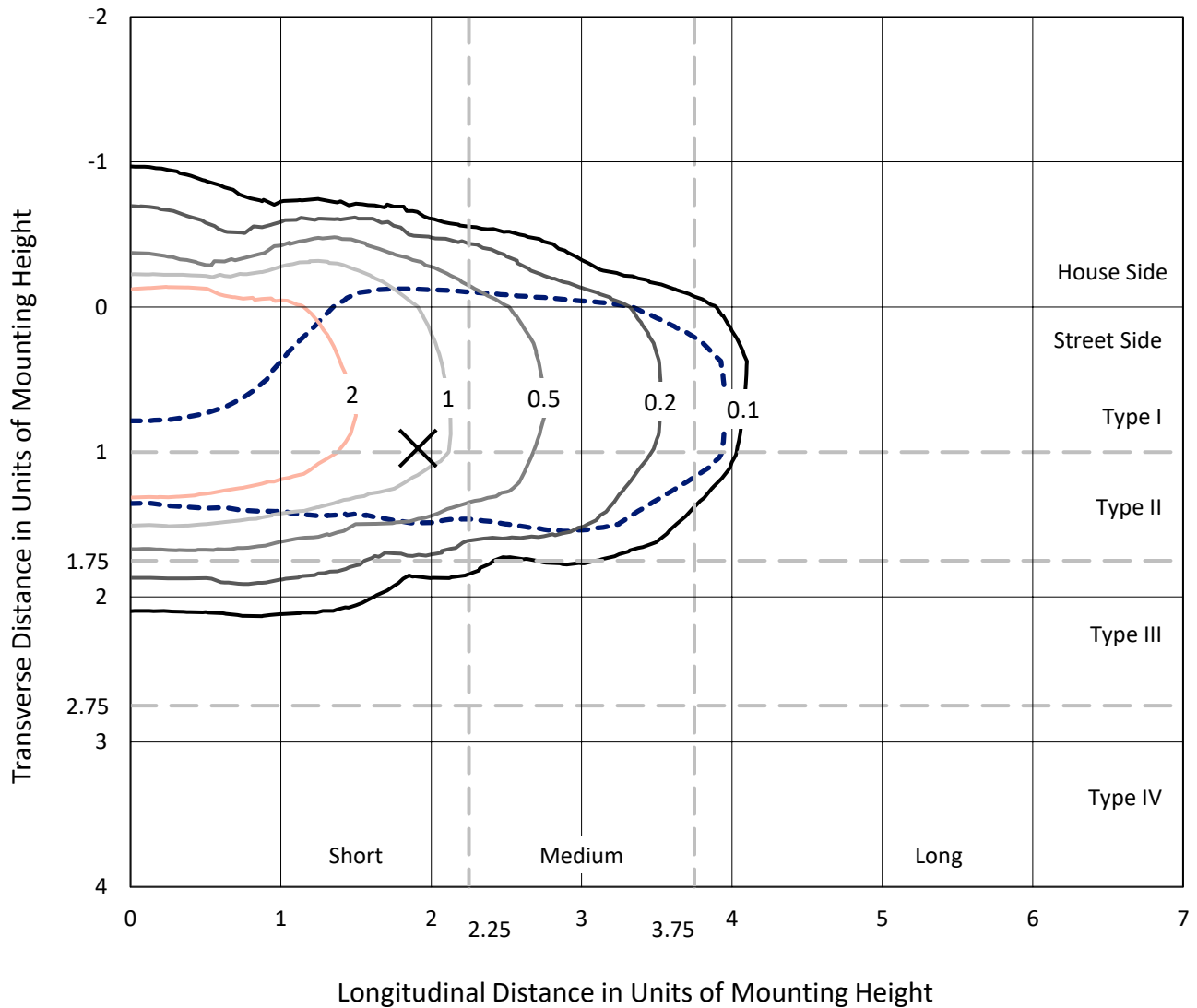
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

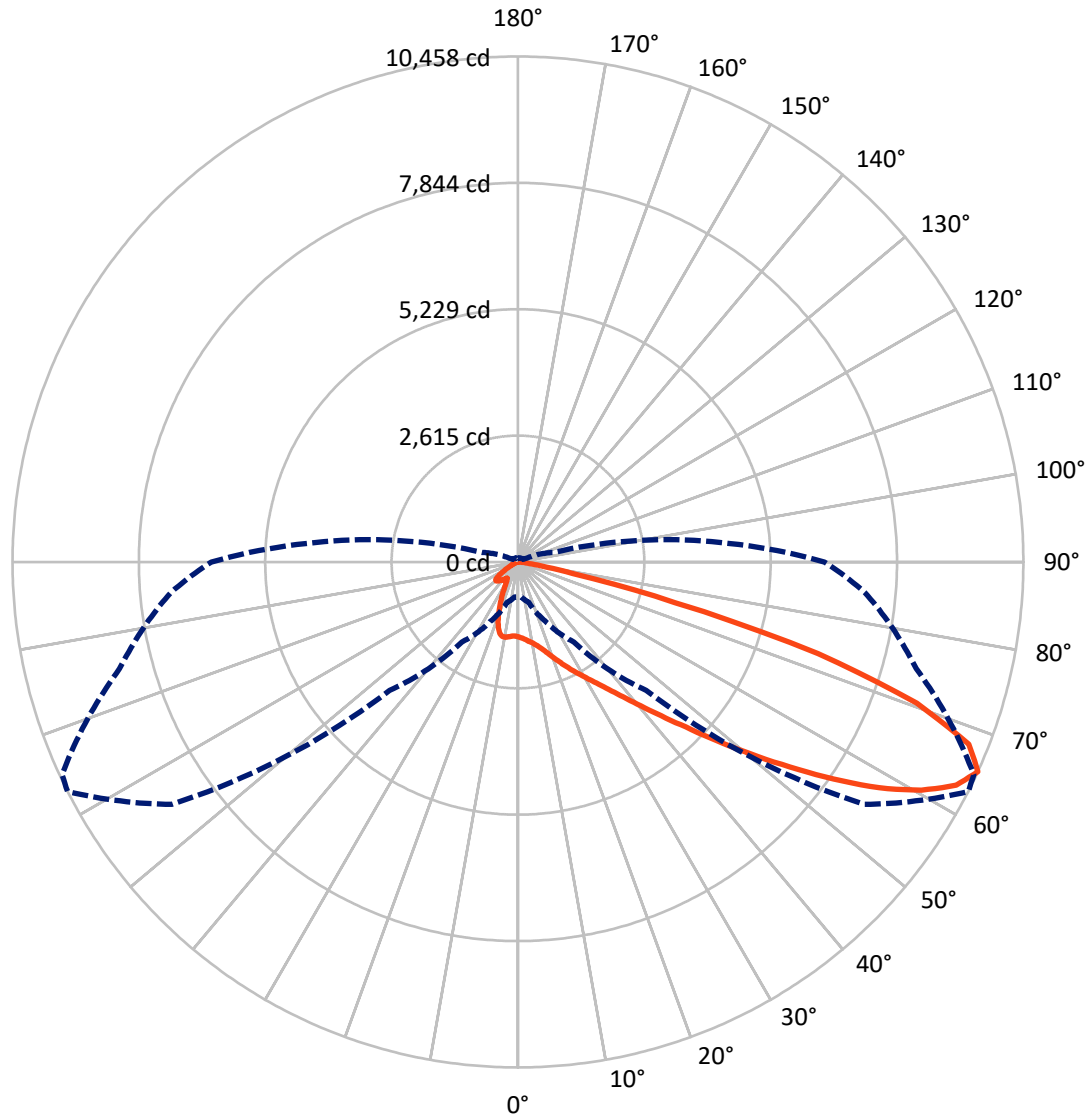
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1844.6	0.0	1844.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10704.4	0.0	10704.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	12549.0	0.0	12549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.2
10°-20°	404.9	3.2
20°-30°	705.0	5.6
30°-40°	1270.7	10.1
40°-50°	2520.2	20.1
50°-60°	3433.0	27.4
60°-70°	2740.2	21.8
70°-80°	1240.0	9.9
80°-90°	89.1	0.7
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°	12549.0	100.0
0°-180°	12549.0	100.0

Coefficient of Utilization



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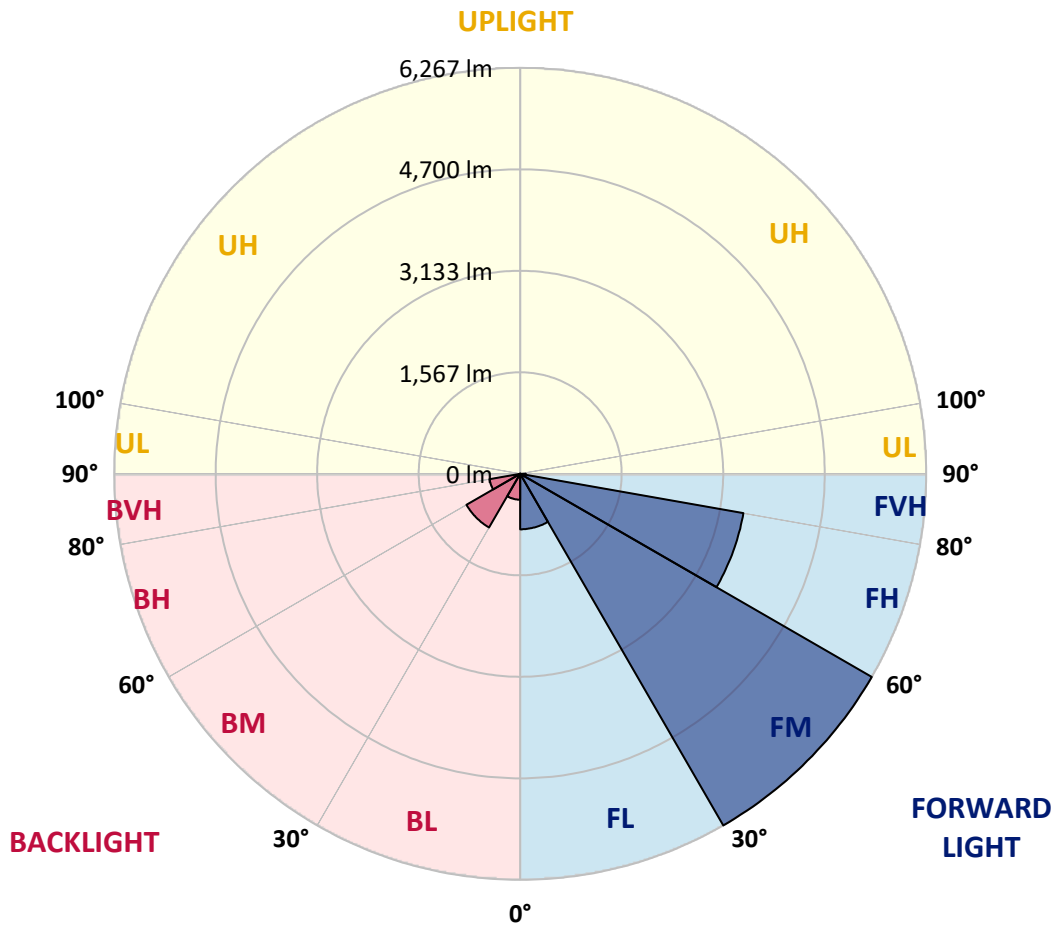
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.6	6.8			
FM (30°-60°)	6266.7	49.9			
FH (60°-80°)	3498.6	27.9			G2/5000
FVH (80°-90°)	82.5	0.7			G1/100
BL (0°-30°)	399.2	3.2	B1/500		
BM (30°-60°)	957.2	7.6	B1/1000		
BH (60°-80°)	481.6	3.8	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8
2.5°	1585.0	1580.7	1586.8	1584.2	1582.5	1579.0	1577.3	1575.5	1572.1	1569.5
5°	1589.4	1586.8	1592.8	1598.0	1603.2	1608.4	1610.9	1614.4	1610.9	1604.0
7.5°	1553.1	1551.4	1564.3	1579.9	1603.2	1623.0	1644.6	1656.7	1657.6	1655.0
10°	1550.5	1546.2	1559.1	1578.1	1608.4	1643.7	1681.7	1707.6	1711.1	1722.3
12.5°	1591.1	1586.8	1604.9	1625.6	1656.7	1693.8	1740.4	1776.7	1781.9	1797.4
15°	1659.3	1653.2	1674.0	1700.7	1740.4	1782.7	1832.0	1864.8	1869.1	1888.1
17.5°	1738.7	1732.7	1756.8	1785.3	1828.5	1886.3	1943.3	1979.6	1984.8	1996.8
20°	1840.6	1832.8	1851.8	1877.7	1923.5	1992.5	2060.7	2112.5	2111.7	2111.7
22.5°	1958.9	1946.8	1963.2	1983.9	2027.1	2110.8	2201.4	2262.7	2262.7	2238.6
25°	2085.8	2073.7	2091.8	2110.8	2148.8	2243.8	2349.9	2425.9	2429.4	2387.9
27.5°	2244.6	2229.1	2242.9	2265.3	2287.8	2384.5	2510.5	2598.6	2600.3	2536.4
30°	2550.2	2506.2	2463.0	2438.9	2449.2	2545.0	2679.7	2777.3	2785.9	2697.9
32.5°	3109.7	3101.0	2949.1	2750.5	2646.9	2717.7	2868.8	2986.2	2991.4	2878.3
35°	3979.0	3968.7	3724.3	3346.2	3008.6	2949.1	3098.4	3237.4	3234.0	3106.2
37.5°	5016.7	5007.2	4685.2	4179.3	3632.8	3298.7	3394.5	3540.4	3562.0	3394.5
40°	5903.3	5867.9	5664.2	5176.4	4461.6	3878.9	3815.8	3912.5	3935.0	3736.4
42.5°	6575.0	6544.8	6441.2	6136.4	5464.8	4737.0	4312.2	4349.4	4374.4	4136.1
45°	6922.9	6916.0	6957.4	6929.0	6486.9	5790.2	5021.9	4867.4	4876.9	4579.0
47.5°	6972.1	6968.7	7157.7	7425.4	7365.8	6978.2	5932.7	5513.1	5479.4	5078.9
50°	6682.0	6675.1	7037.7	7539.3	7952.8	7976.1	6966.9	6240.9	6166.6	5596.0
52.5°	5755.7	5754.0	6349.7	7184.5	8159.2	8849.8	7989.1	7040.3	6916.0	6143.3
55°	4428.8	4460.7	5143.6	6130.4	7782.8	9270.3	8906.8	7927.8	7737.0	6694.1
57.5°	3137.3	3183.9	3859.0	4737.9	6615.6	9021.6	9527.5	8817.0	8611.5	7243.2
60°	1685.2	1726.6	2402.6	3451.5	4921.7	8094.4	9854.7	9588.8	9394.6	7764.6
62.5°	1004.0	1017.8	1297.6	2228.2	3328.9	6183.9	9715.7	10176.7	10017.0	8202.3
65°	720.9	723.5	864.2	1360.6	2021.0	3757.1	8741.0	10458.2	10409.0	8532.1
67.5°	606.9	605.2	663.9	903.9	1377.0	1882.0	6699.3	10060.2	10269.1	8741.0
70°	520.6	523.2	592.2	662.2	1035.1	1065.3	3330.7	8759.2	9204.6	8796.3
72.5°	387.6	396.3	460.1	603.5	781.3	733.0	1149.9	6494.7	7300.2	8287.8
75°	273.7	278.0	323.7	507.6	582.7	533.5	587.1	3357.4	4389.9	6354.0
77.5°	210.6	218.4	245.2	354.8	574.1	374.7	359.1	1162.0	1785.3	3838.3
80°	114.0	127.8	177.0	256.4	403.2	265.0	177.8	462.7	605.2	1794.8
82.5°	58.7	65.6	123.5	184.7	229.6	231.4	88.1	192.5	249.5	554.2
85°	23.3	28.5	82.9	101.9	118.3	114.0	39.7	77.7	89.8	153.7
87.5°	5.2	8.6	30.2	23.3	22.4	24.2	9.5	18.1	17.3	18.1
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°
1548.8	0°	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8	1548.8
1559.1	2.5°	1558.3	1554.8	1545.3	1535.0	1522.9	1516.0	1511.7	1510.8	1504.8	1500.4
1593.7	5°	1584.2	1580.7	1562.6	1541.0	1517.7	1499.6	1482.3	1466.8	1444.3	1440.0
1643.7	7.5°	1636.0	1626.5	1597.1	1567.8	1523.7	1471.1	1407.2	1333.8	1268.2	1248.4
1710.2	10°	1699.9	1686.9	1649.8	1598.0	1500.4	1357.1	1202.6	1059.3	945.3	913.4
1788.8	12.5°	1772.4	1761.2	1711.9	1616.1	1402.9	1143.0	906.5	728.6	618.1	590.5
1872.5	15°	1858.7	1842.3	1774.1	1588.5	1228.5	868.5	622.4	517.1	477.4	472.2
1968.4	17.5°	1950.2	1923.5	1829.4	1489.2	993.7	617.3	480.9	450.6	433.4	428.2
2065.0	20°	2034.0	1999.4	1862.2	1339.0	742.4	480.9	430.8	410.9	395.4	389.4
2161.7	22.5°	2117.7	2068.5	1862.2	1134.4	556.8	426.5	395.4	377.3	359.1	351.4
2265.3	25°	2204.9	2139.3	1829.4	906.5	448.1	391.1	361.7	341.9	326.3	316.8
2363.8	27.5°	2289.5	2198.9	1754.3	690.7	398.9	360.0	330.6	311.7	297.0	290.1
2470.8	30°	2369.8	2257.6	1648.9	524.0	366.9	329.8	302.2	285.8	271.1	264.2
2609.8	32.5°	2478.6	2331.8	1536.7	429.9	339.3	301.3	276.3	260.7	247.8	242.6
2790.2	35°	2629.7	2441.4	1440.0	422.2	316.0	278.0	253.0	238.3	225.3	221.0
3023.3	37.5°	2843.8	2618.4	1389.1	474.0	297.0	257.3	234.0	218.4	206.3	202.9
3319.4	40°	3107.9	2858.4	1416.7	525.8	284.0	239.1	216.7	201.2	190.8	186.5
3659.6	42.5°	3421.3	3154.5	1569.5	565.5	275.4	223.6	200.3	183.0	176.1	174.4
4045.5	45°	3781.3	3480.0	1803.5	607.8	261.6	208.9	183.9	170.9	165.8	164.9
4465.1	47.5°	4190.5	3837.4	2074.5	660.4	247.8	195.1	170.9	162.3	158.0	156.3
4902.8	50°	4596.3	4197.4	2353.4	689.8	236.5	182.2	160.6	153.7	150.2	149.4
5365.5	52.5°	5021.0	4567.8	2578.7	662.2	227.1	171.8	151.9	146.8	143.3	142.4
5792.0	55°	5425.9	4867.4	2617.6	562.0	208.1	161.4	142.4	139.9	135.5	135.5
6224.5	57.5°	5774.7	5017.6	2343.0	412.7	189.1	145.9	133.0	130.4	126.9	126.0
6614.7	60°	6095.0	4974.4	1808.6	278.0	168.3	130.4	120.9	119.1	115.7	111.4
6954.0	62.5°	6275.4	4784.5	1237.1	181.3	147.6	114.0	107.1	106.2	98.4	89.8
7205.2	65°	6343.6	4394.3	771.8	132.1	123.5	97.6	92.4	90.6	79.4	69.9
7347.7	67.5°	6284.1	3752.0	389.4	104.5	97.6	81.2	76.0	76.0	68.2	59.6
7339.0	70°	6045.8	2812.7	164.0	83.7	75.1	62.2	62.2	65.6	57.8	48.3
6958.3	72.5°	5528.7	1892.4	87.2	63.9	56.1	44.0	50.9	53.5	45.8	36.3
5695.3	75°	4395.1	1154.2	60.4	47.5	35.4	31.1	38.8	40.6	31.1	24.2
3904.8	77.5°	3006.1	663.0	40.6	30.2	22.4	18.1	26.8	25.0	16.4	11.2
1505.6	80°	1320.0	276.3	23.3	13.8	8.6	6.9	9.5	6.9	5.2	3.5
206.3	82.5°	154.5	64.7	8.6	5.2	3.5	1.7	0.9	0.0	0.0	0.0
63.0	85°	31.9	7.8	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0
11.2	87.5°	6.0	1.7	0.9	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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<u>180°</u>
1548.8
1504.8
1438.3
1238.9
901.3
582.7
467.1
425.6
385.9
347.1
313.4
290.1
265.0
242.6
221.0
202.0
185.6
174.4
164.0
156.3
149.4
142.4
134.7
125.2
110.5
88.1
69.1
58.7
47.5
36.3
23.3
12.1
3.5
0.0
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