

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: P940868

Luminaire Tested: **GALN-SB4A-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13020 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

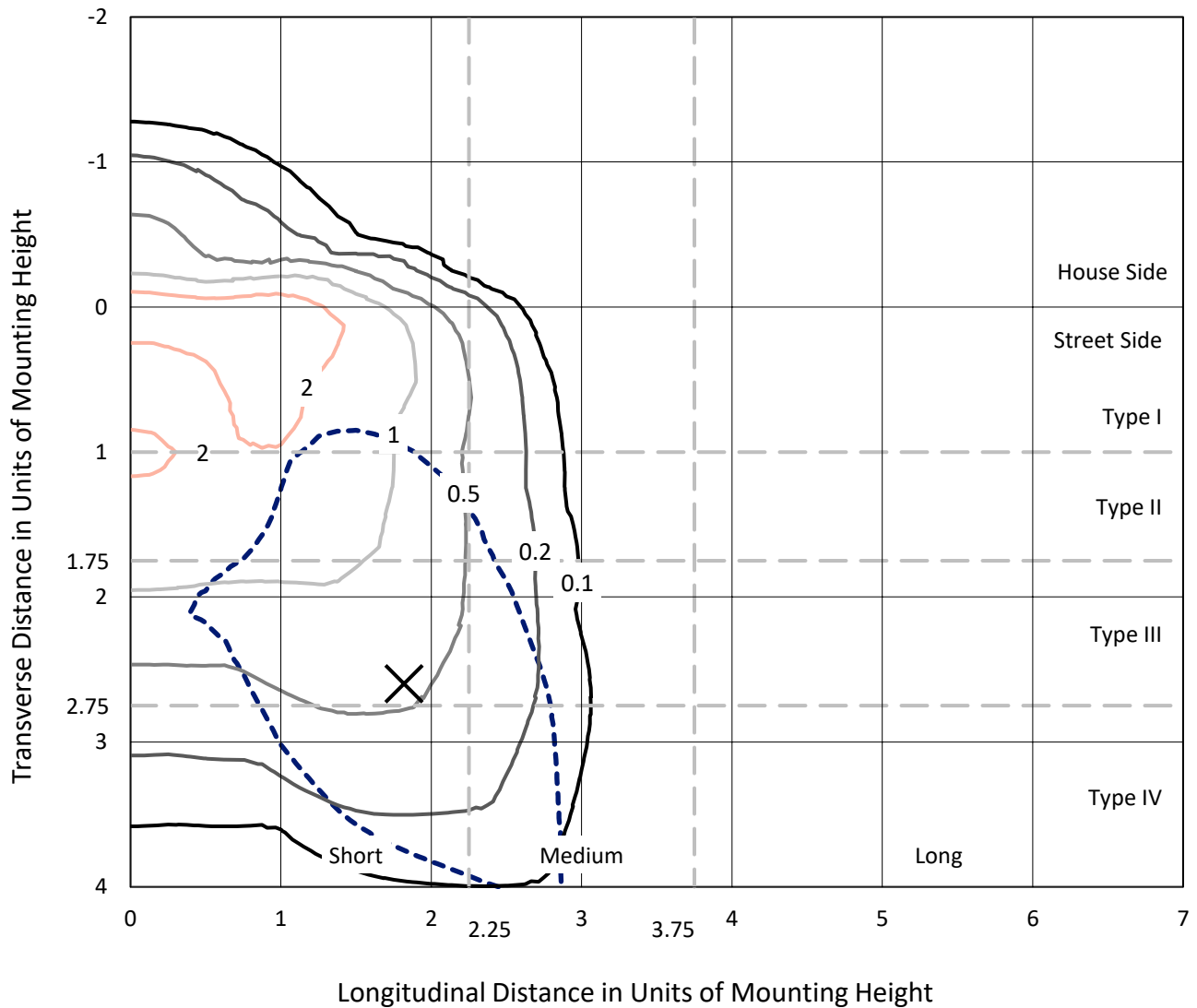
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

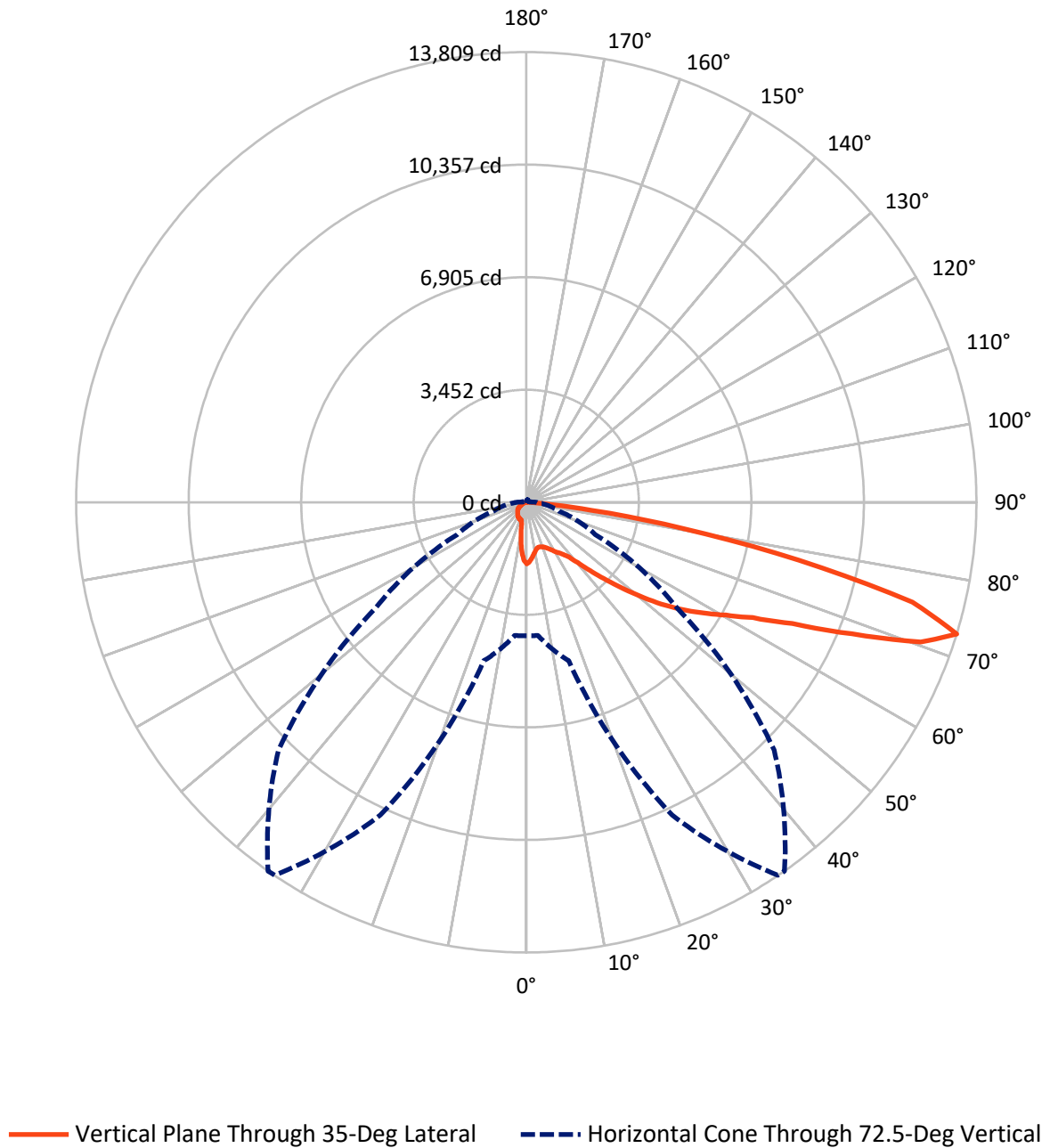
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1465.3	0.0	1465.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	11554.7	0.0	11554.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	13020.0	0.0	13020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.2
10°-20°	362.8	2.8
20°-30°	589.3	4.5
30°-40°	983.2	7.6
40°-50°	1860.3	14.3
50°-60°	2956.0	22.7
60°-70°	3656.7	28.1
70°-80°	2273.0	17.5
80°-90°	183.7	1.4
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°	13020.0	100.0
0°-180°	13020.0	100.0

Coefficient of Utilization



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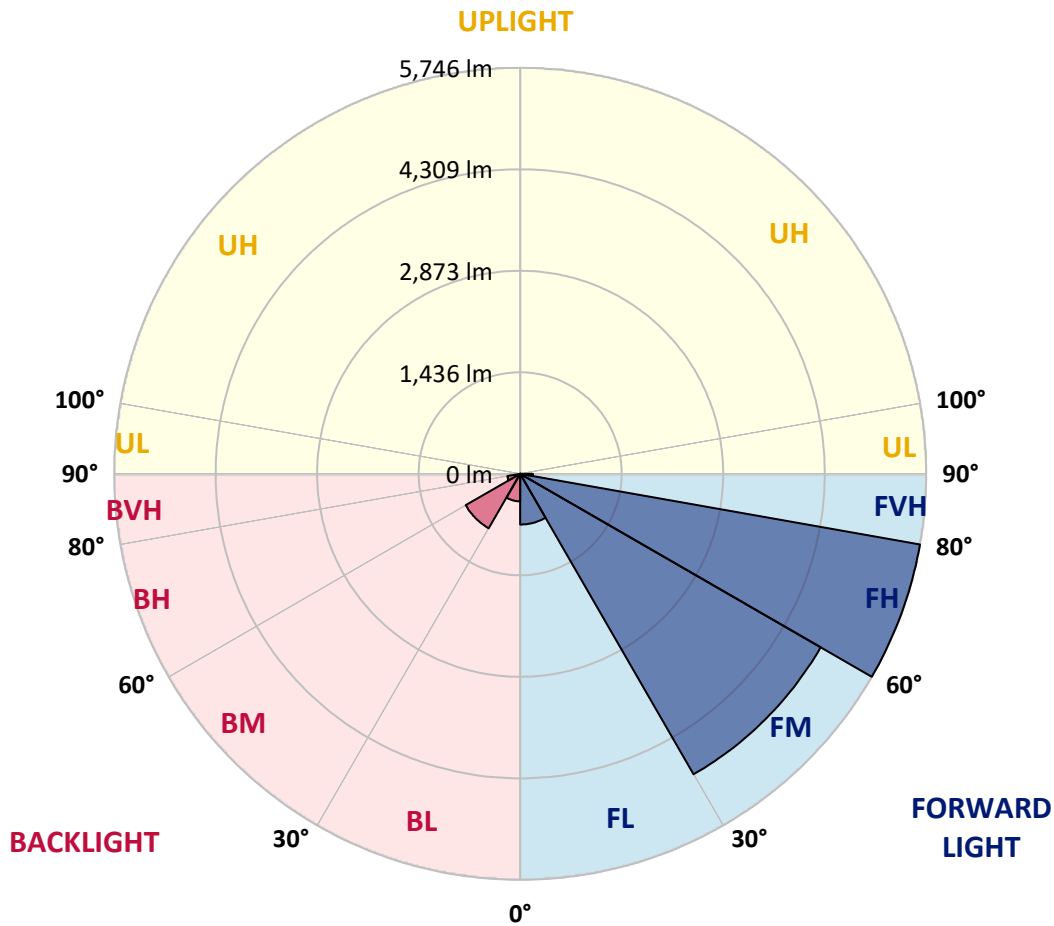
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.7	5.5			
FM (30°-60°)	4909.8	37.7			
FH (60°-80°)	5745.9	44.1			G3/7500
FVH (80°-90°)	181.2	1.4			G2/225
BL (0°-30°)	389.4	3.0	B1/500		
BM (30°-60°)	889.6	6.8	B1/1000		
BH (60°-80°)	183.9	1.4	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1803.1	1818.3	1821.2	1826.0	1826.0	1831.7	1841.2	1854.6	1876.5	1888.0
5°	1661.9	1673.3	1687.6	1699.1	1721.0	1723.9	1761.1	1797.4	1847.9	1886.1
7.5°	1519.7	1533.1	1552.2	1579.8	1608.5	1617.0	1673.3	1734.4	1814.5	1886.1
10°	1419.6	1420.5	1437.7	1465.4	1511.2	1521.6	1590.3	1677.2	1777.3	1874.6
12.5°	1363.3	1370.0	1377.6	1398.6	1442.5	1449.1	1522.6	1624.7	1740.1	1868.0
15°	1363.3	1368.1	1372.8	1383.3	1418.6	1424.3	1489.2	1591.3	1721.0	1870.8
17.5°	1377.6	1385.2	1381.4	1393.8	1431.0	1434.8	1492.1	1581.8	1720.1	1888.9
20°	1411.9	1417.7	1410.0	1417.7	1454.9	1462.5	1521.6	1599.9	1736.3	1920.4
22.5°	1466.3	1469.2	1451.1	1456.8	1494.9	1504.5	1573.2	1651.4	1775.4	1971.0
25°	1535.0	1540.7	1513.1	1519.7	1556.0	1567.4	1646.6	1728.7	1837.4	2040.6
27.5°	1614.2	1617.0	1593.2	1592.2	1639.0	1655.2	1735.3	1824.1	1920.4	2128.4
30°	1704.8	1713.4	1690.5	1686.7	1745.8	1759.2	1838.4	1941.4	2042.5	2260.1
32.5°	1776.4	1783.0	1769.7	1779.2	1839.3	1849.8	1963.4	2107.4	2234.3	2447.0
35°	1879.4	1883.2	1852.7	1869.9	1938.6	1965.3	2134.1	2340.2	2475.7	2681.7
37.5°	2252.4	2252.4	2122.7	2037.8	2103.6	2127.4	2367.9	2633.1	2773.3	2996.5
40°	2768.5	2760.0	2570.1	2396.5	2387.9	2434.6	2700.8	3002.3	3157.8	3374.3
42.5°	3319.0	3305.6	3047.1	2875.4	2846.8	2863.0	3085.3	3457.3	3615.7	3835.1
45°	3807.5	3803.6	3567.0	3336.2	3284.7	3336.2	3565.1	3989.7	4103.2	4334.1
47.5°	4216.7	4216.7	4044.1	3893.3	3866.6	3897.1	4214.8	4580.2	4569.7	4865.5
50°	4688.0	4684.2	4520.1	4455.2	4482.9	4525.8	4962.8	5202.2	5052.4	5387.3
52.5°	5018.1	5041.0	4984.7	4974.2	5115.4	5189.8	5722.2	5810.9	5484.6	5882.4
55°	5279.5	5306.2	5371.1	5444.5	5716.4	5813.7	6457.7	6388.1	5846.2	6311.7
57.5°	5649.7	5611.5	5711.7	5856.7	6296.5	6413.8	7170.3	6932.8	6137.2	6660.0
60°	6099.0	6104.7	6121.9	6305.1	6875.6	7026.3	7872.5	7448.0	6324.1	6873.7
62.5°	6639.0	6647.6	6682.8	6964.3	7653.1	7795.2	8620.4	7869.6	6410.0	6813.5
65°	6601.8	6638.0	7032.0	7994.6	8835.1	8975.3	9493.4	8165.4	6280.3	6264.0
67.5°	6014.1	6073.2	6732.5	9225.3	10617.2	10773.7	10548.5	8223.6	5720.3	4871.2
70°	5243.2	5264.2	6057.0	10331.9	12680.7	12839.1	11493.0	7583.4	4340.8	2717.0
72.5°	4094.6	4099.4	5029.5	10588.6	13800.7	13809.3	10751.7	5629.6	2334.5	1043.7
75°	2925.0	2896.4	3368.6	8587.1	12141.7	12239.0	8060.4	2640.7	892.0	493.2
77.5°	1568.4	1599.9	1906.1	5092.5	8387.7	8553.7	4398.0	761.3	454.1	335.8
80°	484.6	511.4	781.3	2331.6	4751.0	4851.1	1630.4	338.7	316.7	239.5
82.5°	152.6	158.4	364.4	979.8	1971.9	2017.7	472.2	191.8	216.6	158.4
85°	43.9	44.8	162.2	365.4	487.5	497.0	132.6	74.4	124.0	98.3
87.5°	4.8	15.3	61.1	61.1	42.9	42.0	14.3	16.2	35.3	12.4
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°
1887.0	0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
1895.6	2.5°	1890.9	1891.8	1879.4	1858.4	1835.5	1816.4	1792.6	1773.5	1760.2	1756.3
1912.8	5°	1904.2	1897.5	1862.2	1798.3	1722.0	1656.2	1582.7	1524.5	1486.3	1470.1
1930.9	7.5°	1924.2	1905.2	1827.9	1702.0	1556.0	1426.2	1294.6	1192.5	1127.6	1095.2
1948.1	10°	1941.4	1903.3	1770.6	1562.7	1339.4	1142.9	965.5	842.4	773.7	741.3
1968.1	12.5°	1957.6	1902.3	1696.2	1397.6	1095.2	854.8	689.8	628.7	609.6	602.9
2000.6	15°	1988.2	1905.2	1602.7	1208.7	851.9	645.9	585.8	584.8	588.6	586.7
2050.2	17.5°	2030.1	1908.0	1496.8	1008.4	657.3	569.5	566.7	575.3	581.0	578.1
2112.2	20°	2084.5	1919.5	1384.3	810.0	564.8	550.5	557.1	564.8	569.5	564.8
2195.2	22.5°	2160.8	1939.5	1261.2	650.6	535.2	539.0	544.7	553.3	558.1	551.4
2301.1	25°	2254.3	1971.0	1140.0	565.7	520.9	525.7	534.2	543.8	549.5	542.8
2434.6	27.5°	2375.5	2021.6	1028.4	546.6	506.6	509.4	521.8	536.2	543.8	535.2
2624.5	30°	2551.0	2104.5	932.1	555.2	498.0	491.3	508.5	528.5	537.1	529.5
2883.0	32.5°	2783.8	2221.9	872.9	568.6	494.2	470.3	486.5	512.3	526.6	521.8
3220.7	35°	3089.1	2400.3	850.0	583.9	491.3	448.4	459.8	487.5	512.3	517.1
3646.2	37.5°	3459.2	2648.3	856.7	590.5	482.7	430.3	436.0	459.8	492.3	507.5
4125.1	40°	3880.0	2937.4	894.9	583.9	473.2	415.0	415.9	434.1	462.7	485.6
4640.3	42.5°	4314.0	3275.1	965.5	559.1	464.6	401.6	398.8	411.2	430.3	446.5
5154.5	45°	4727.1	3622.4	1035.1	524.7	454.1	388.3	381.6	386.4	390.2	396.9
5655.4	47.5°	5087.7	3866.6	1015.1	493.2	439.8	373.0	361.6	359.7	348.2	347.3
6102.8	50°	5336.7	3920.0	901.5	461.7	418.8	355.8	337.7	326.3	306.2	296.7
6437.7	52.5°	5415.9	3709.2	736.5	430.3	384.5	332.9	307.2	289.1	264.3	255.7
6630.4	55°	5311.0	3296.1	588.6	392.1	336.8	302.4	273.8	250.0	229.9	219.4
6651.4	57.5°	5054.4	2770.4	465.6	347.3	286.2	268.1	239.5	215.6	198.4	187.9
6418.6	60°	4628.9	2200.0	368.2	293.8	244.2	230.9	201.3	186.0	170.8	158.4
5817.6	62.5°	3983.0	1570.3	289.1	232.8	204.2	188.9	171.7	160.3	142.1	125.0
4736.7	65°	3108.2	960.7	223.2	170.8	164.1	156.5	146.0	135.5	113.5	96.4
3090.0	67.5°	1960.5	455.1	159.3	128.8	129.7	125.9	121.2	112.6	96.4	81.1
1384.3	70°	863.4	220.4	104.9	98.3	96.4	96.4	100.2	97.3	82.0	67.7
480.8	72.5°	293.8	118.3	78.2	74.4	69.6	68.7	84.0	81.1	65.8	52.5
239.5	75°	153.6	79.2	57.2	53.4	42.0	50.6	66.8	63.0	46.7	34.3
158.4	77.5°	100.2	56.3	39.1	34.3	23.9	33.4	49.6	43.9	27.7	17.2
104.0	80°	63.0	37.2	22.9	16.2	11.4	18.1	26.7	19.1	10.5	3.8
61.1	82.5°	33.4	19.1	8.6	5.7	4.8	5.7	6.7	4.8	1.9	0.0
31.5	85°	13.4	6.7	2.9	1.9	1.0	0.0	1.9	1.0	0.0	0.0
5.7	87.5°	4.8	1.0	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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<u>180°</u>
1887.0
1763.0
1475.9
1100.0
742.2
601.0
585.8
577.2
563.8
550.5
541.9
535.2
528.5
521.8
517.1
511.4
493.2
453.2
400.7
346.3
297.7
254.7
219.4
186.0
155.5
122.1
93.5
79.2
64.9
49.6
31.5
15.3
2.9
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