

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: P949801

Luminaire Tested: **GALN-SB4B-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949801
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-SB4B-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA 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: 12498 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

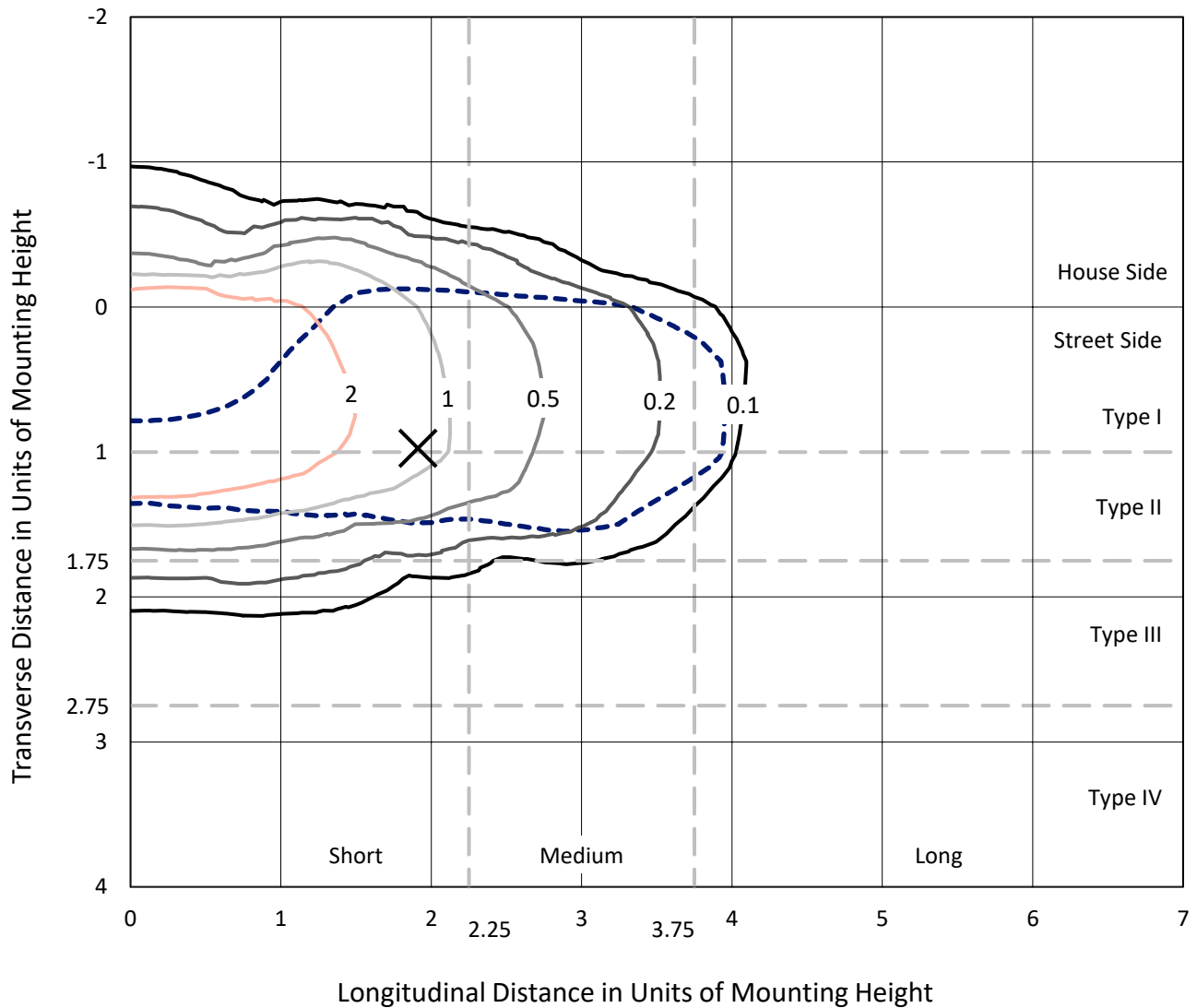
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

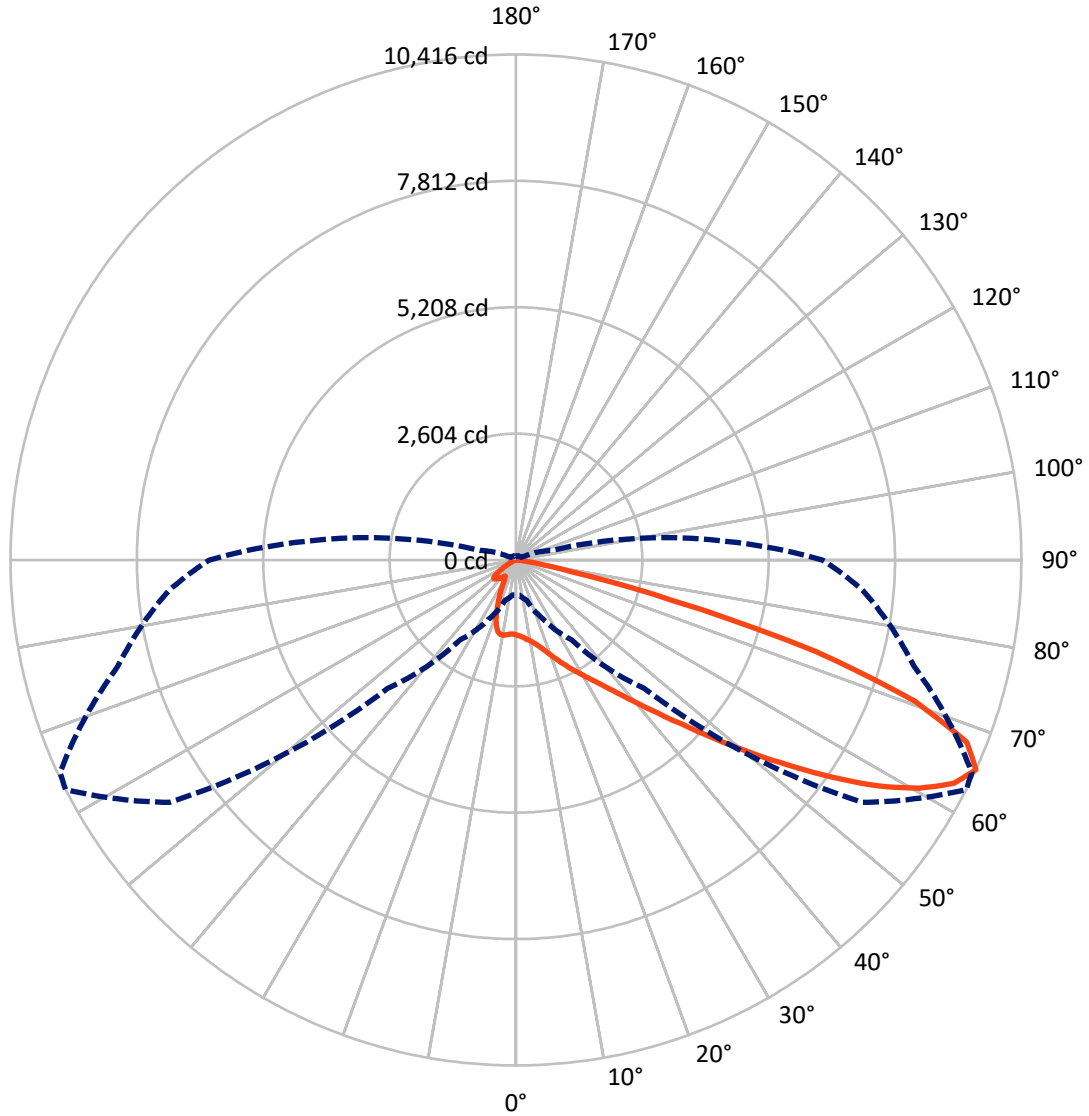
✕ Max cd
 - - - 1/2 Max cd



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	1837.1	0.0	1837.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10660.9	0.0	10660.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	12498.0	0.0	12498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.2
10°-20°	403.2	3.2
20°-30°	702.1	5.6
30°-40°	1265.5	10.1
40°-50°	2510.0	20.1
50°-60°	3419.0	27.4
60°-70°	2729.0	21.8
70°-80°	1235.0	9.9
80°-90°	88.8	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°	12498.0	100.0
0°-180°	12498.0	100.0

Coefficient of Utilization



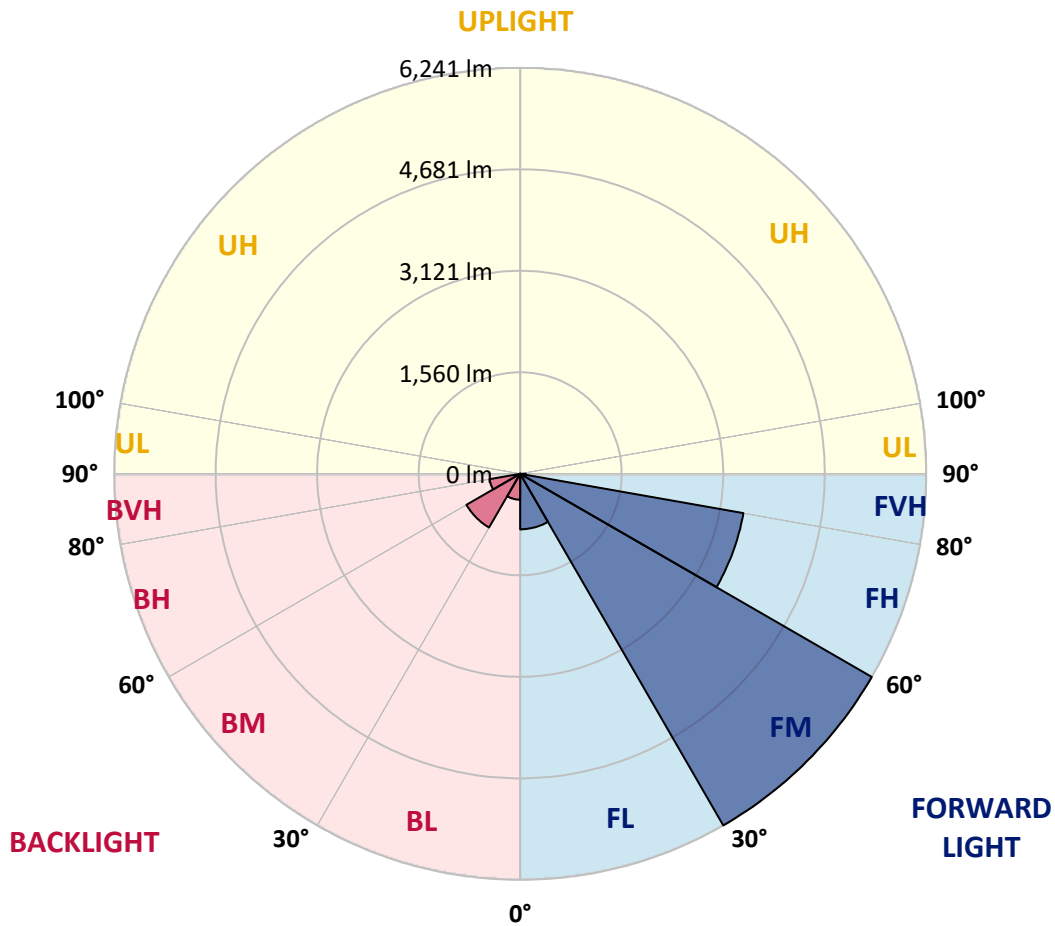
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.1	6.8			
FM (30°-60°)	6241.2	49.9			
FH (60°-80°)	3484.4	27.9			G2/5000
FVH (80°-90°)	82.2	0.7			G1/100
BL (0°-30°)	397.6	3.2	B1/500		
BM (30°-60°)	953.3	7.6	B1/1000		
BH (60°-80°)	479.6	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°	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5
2.5°	1578.6	1574.3	1580.3	1577.7	1576.0	1572.6	1570.9	1569.1	1565.7	1563.1
5°	1582.9	1580.3	1586.3	1591.5	1596.7	1601.8	1604.4	1607.8	1604.4	1597.5
7.5°	1546.8	1545.1	1558.0	1573.4	1596.7	1616.4	1637.9	1650.0	1650.8	1648.2
10°	1544.2	1539.9	1552.8	1571.7	1601.8	1637.1	1674.9	1700.7	1704.1	1715.3
12.5°	1584.6	1580.3	1598.4	1619.0	1650.0	1686.9	1733.4	1769.5	1774.6	1790.1
15°	1652.5	1646.5	1667.2	1693.8	1733.4	1775.5	1824.5	1857.2	1861.5	1880.4
17.5°	1731.6	1725.6	1749.7	1778.1	1821.1	1878.7	1935.4	1971.5	1976.7	1988.7
20°	1833.1	1825.4	1844.3	1870.1	1915.6	1984.4	2052.4	2103.9	2103.1	2103.1
22.5°	1950.9	1938.9	1955.2	1975.8	2018.8	2102.2	2192.5	2253.5	2253.5	2229.5
25°	2077.3	2065.3	2083.3	2102.2	2140.1	2234.6	2340.4	2416.1	2419.5	2378.2
27.5°	2235.5	2220.0	2233.8	2256.1	2278.5	2374.8	2500.3	2588.0	2589.7	2526.1
30°	2539.9	2496.0	2453.0	2428.9	2439.3	2534.7	2668.8	2766.0	2774.6	2686.9
32.5°	3097.0	3088.4	2937.1	2739.3	2636.2	2706.7	2857.1	2974.1	2979.2	2866.6
35°	3962.8	3952.5	3709.2	3332.6	2996.4	2937.1	3085.8	3224.3	3220.8	3093.6
37.5°	4996.3	4986.9	4666.2	4162.3	3618.1	3285.3	3380.8	3526.1	3547.6	3380.8
40°	5879.3	5844.1	5641.2	5155.4	4443.5	3863.1	3800.3	3896.6	3919.0	3721.2
42.5°	6548.3	6518.2	6415.0	6111.5	5442.6	4717.7	4294.7	4331.7	4356.6	4119.3
45°	6894.8	6887.9	6929.2	6900.8	6460.6	5766.7	5001.5	4847.6	4857.0	4560.4
47.5°	6943.8	6940.3	7128.6	7395.2	7335.9	6949.8	5908.6	5490.7	5457.2	5058.2
50°	6654.9	6648.0	7009.1	7508.7	7920.5	7943.7	6938.6	6215.5	6141.6	5573.3
52.5°	5732.3	5730.6	6323.9	7155.3	8126.0	8813.9	7956.6	7011.7	6887.9	6118.4
55°	4410.8	4442.6	5122.7	6105.5	7751.1	9232.6	8870.6	7895.6	7705.6	6666.9
57.5°	3124.5	3171.0	3843.3	4718.6	6588.7	8985.0	9488.8	8781.2	8576.6	7213.8
60°	1678.3	1719.6	2392.8	3437.5	4901.7	8061.5	9814.7	9549.8	9356.4	7733.1
62.5°	1000.0	1013.7	1292.3	2219.2	3315.4	6158.8	9676.2	10135.4	9976.3	8169.0
65°	717.9	720.5	860.7	1355.1	2012.8	3741.9	8705.5	10415.7	10366.7	8497.4
67.5°	604.4	602.7	661.2	900.2	1371.4	1874.4	6672.1	10019.3	10227.4	8705.5
70°	518.5	521.0	589.8	659.5	1030.9	1061.0	3317.1	8723.6	9167.2	8760.5
72.5°	386.1	394.7	458.3	601.0	778.1	730.0	1145.3	6468.3	7270.5	8254.1
75°	272.6	276.9	322.4	505.6	580.4	531.4	584.7	3343.8	4372.1	6328.2
77.5°	209.8	217.5	244.2	353.4	571.8	373.2	357.7	1157.3	1778.1	3822.7
80°	113.5	127.3	176.3	255.4	401.5	264.0	177.1	460.9	602.7	1787.5
82.5°	58.5	65.3	123.0	184.0	228.7	230.4	87.7	191.7	248.5	552.0
85°	23.2	28.4	82.5	101.5	117.8	113.5	39.6	77.4	89.4	153.0
87.5°	5.2	8.6	30.1	23.2	22.4	24.1	9.5	18.1	17.2	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°
1542.5	0°	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5	1542.5
1552.8	2.5°	1551.9	1548.5	1539.1	1528.7	1516.7	1509.8	1505.5	1504.7	1498.6	1494.3
1587.2	5°	1577.7	1574.3	1556.2	1534.8	1511.5	1493.5	1476.3	1460.8	1438.5	1434.2
1637.1	7.5°	1629.3	1619.9	1590.6	1561.4	1517.6	1465.1	1401.5	1328.4	1263.1	1243.3
1703.3	10°	1693.0	1680.1	1643.1	1591.5	1494.3	1351.6	1197.7	1055.0	941.5	909.7
1781.5	12.5°	1765.2	1754.0	1705.0	1609.6	1397.2	1138.4	902.8	725.7	615.6	588.1
1864.9	15°	1851.2	1834.8	1766.9	1582.0	1223.5	865.0	619.9	515.0	475.5	470.3
1960.4	17.5°	1942.3	1915.6	1821.9	1483.2	989.6	614.8	478.9	448.8	431.6	426.5
2056.7	20°	2025.7	1991.3	1854.6	1333.6	739.4	478.9	429.0	409.3	393.8	387.8
2153.0	22.5°	2109.1	2060.1	1854.6	1129.8	554.6	424.7	393.8	375.7	357.7	349.9
2256.1	25°	2195.9	2130.6	1821.9	902.8	446.2	389.5	360.3	340.5	325.0	315.5
2354.1	27.5°	2280.2	2189.9	1747.1	687.8	397.2	358.5	329.3	310.4	295.8	288.9
2460.8	30°	2360.2	2248.4	1642.2	521.9	365.4	328.4	300.9	284.6	270.0	263.1
2599.2	32.5°	2468.5	2322.3	1530.5	428.2	337.9	300.1	275.1	259.7	246.8	241.6
2778.9	35°	2619.0	2431.5	1434.2	420.4	314.7	276.9	251.9	237.3	224.4	220.1
3011.0	37.5°	2832.2	2607.8	1383.4	472.0	295.8	256.2	233.0	217.5	205.5	202.1
3305.9	40°	3095.3	2846.8	1410.9	523.6	282.9	238.2	215.8	200.3	190.0	185.7
3644.7	42.5°	3407.4	3141.7	1563.1	563.2	274.3	222.7	199.5	182.3	175.4	173.7
4029.0	45°	3765.9	3465.9	1796.1	605.3	260.5	208.1	183.1	170.2	165.1	164.2
4446.9	47.5°	4173.5	3821.8	2066.1	657.8	246.8	194.3	170.2	161.6	157.3	155.6
4882.8	50°	4577.6	4180.4	2343.8	687.0	235.6	181.4	159.9	153.0	149.6	148.7
5343.7	52.5°	5000.6	4549.2	2568.2	659.5	226.1	171.1	151.3	146.2	142.7	141.9
5768.4	55°	5403.9	4847.6	2606.9	559.7	207.2	160.8	141.9	139.3	135.0	135.0
6199.2	57.5°	5751.2	4997.2	2333.5	411.0	188.3	145.3	132.4	129.8	126.4	125.5
6587.8	60°	6070.2	4954.2	1801.3	276.9	167.7	129.8	120.4	118.7	115.2	110.9
6925.7	62.5°	6249.9	4765.0	1232.1	180.6	147.0	113.5	106.6	105.8	98.0	89.4
7175.9	65°	6317.8	4376.4	768.7	131.6	123.0	97.2	92.0	90.3	79.1	69.6
7317.8	67.5°	6258.5	3736.7	387.8	104.0	97.2	80.8	75.7	75.7	67.9	59.3
7309.2	70°	6021.2	2801.2	163.4	83.4	74.8	61.9	61.9	65.3	57.6	48.1
6930.0	72.5°	5506.2	1884.7	86.8	63.6	55.9	43.9	50.7	53.3	45.6	36.1
5672.1	75°	4377.3	1149.6	60.2	47.3	35.3	31.0	38.7	40.4	31.0	24.1
3888.9	77.5°	2993.8	660.3	40.4	30.1	22.4	18.1	26.7	24.9	16.3	11.2
1499.5	80°	1314.6	275.1	23.2	13.8	8.6	6.9	9.5	6.9	5.2	3.4
205.5	82.5°	153.9	64.5	8.6	5.2	3.4	1.7	0.9	0.0	0.0	0.0
62.8	85°	31.8	7.7	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>
1542.5
1498.6
1432.4
1233.8
897.6
580.4
465.2
423.9
384.3
345.6
312.1
288.9
264.0
241.6
220.1
201.2
184.9
173.7
163.4
155.6
148.7
141.9
134.1
124.7
110.1
87.7
68.8
58.5
47.3
36.1
23.2
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