

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: P948009

Luminaire Tested: **GALN-SB3A-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9532 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

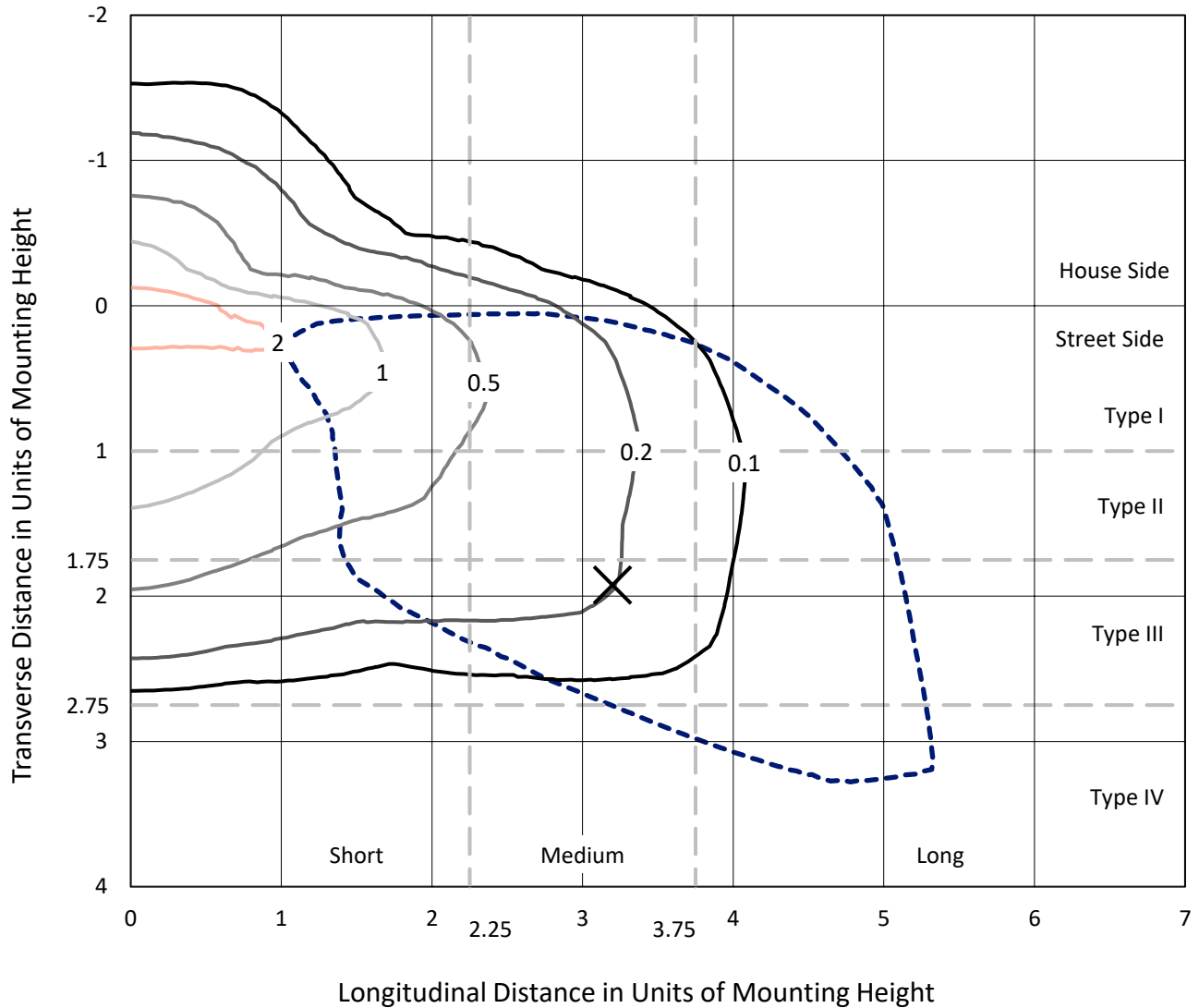
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

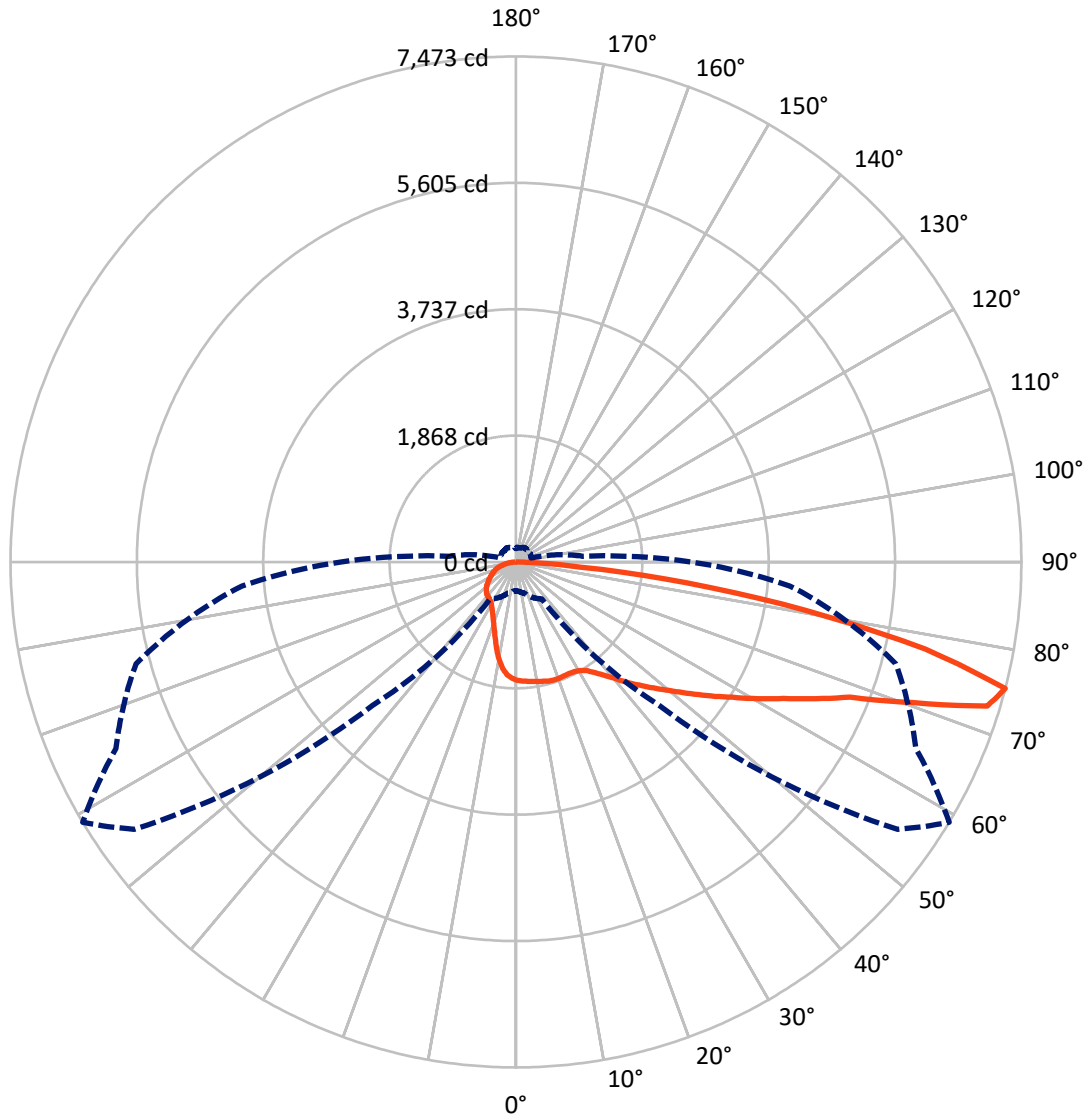
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1787.8	0.0	1787.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7744.2	0.0	7744.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	9532.0	0.0	9532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	1.6
10°-20°	401.0	4.2
20°-30°	609.1	6.4
30°-40°	905.4	9.5
40°-50°	1346.4	14.1
50°-60°	1827.6	19.2
60°-70°	2231.2	23.4
70°-80°	1751.0	18.4
80°-90°	303.3	3.2
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°	9532.0	100.0
0°-180°	9532.0	100.0

Coefficient of Utilization



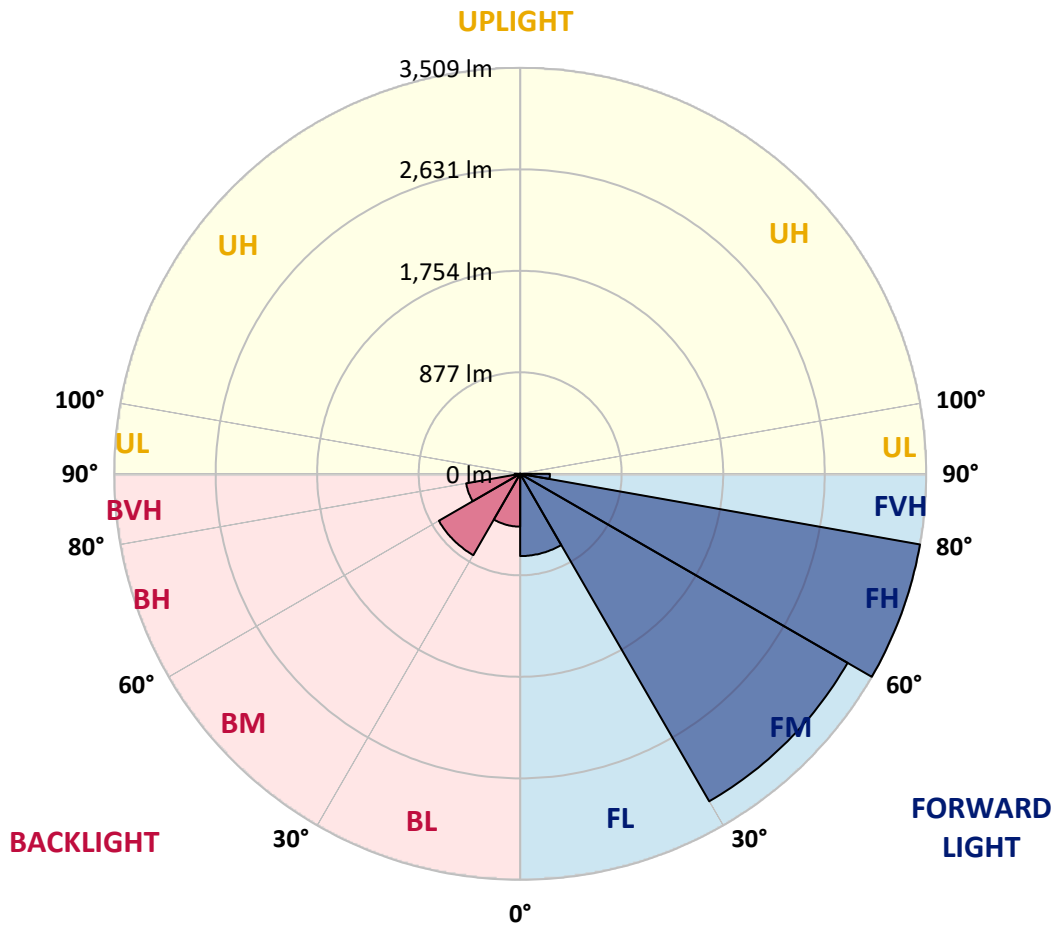
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.7	7.5			
FM (30°-60°)	3268.0	34.3			
FH (60°-80°)	3508.6	36.8			G2/5000
FVH (80°-90°)	256.9	2.7			G3/500
BL (0°-30°)	456.2	4.8	B1/500		
BM (30°-60°)	811.5	8.5	B1/1000		
BH (60°-80°)	473.7	5.0	B1/500		G1/500
BVH (80°-90°)	46.4	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6
2.5°	1764.4	1758.3	1764.4	1761.9	1760.9	1758.8	1759.3	1762.9	1760.9	1763.4
5°	1752.7	1749.1	1755.2	1753.7	1760.3	1761.4	1768.0	1772.1	1774.7	1775.2
7.5°	1733.2	1729.6	1738.3	1745.5	1759.8	1763.9	1777.8	1784.4	1788.0	1794.2
10°	1661.9	1660.4	1681.9	1709.1	1742.9	1763.9	1785.0	1796.2	1801.9	1818.3
12.5°	1535.8	1537.8	1566.0	1618.3	1686.0	1753.7	1793.2	1809.6	1818.3	1838.8
15°	1415.3	1414.7	1445.5	1501.4	1596.3	1708.6	1797.3	1825.5	1840.3	1870.6
17.5°	1345.5	1343.5	1365.0	1407.6	1495.8	1639.3	1787.0	1834.2	1866.0	1903.9
20°	1332.7	1328.6	1339.9	1360.9	1423.5	1563.4	1760.3	1834.2	1886.5	1935.7
22.5°	1379.4	1372.7	1368.1	1365.5	1393.2	1500.9	1730.1	1828.0	1916.7	1981.4
25°	1473.2	1462.9	1439.4	1416.3	1408.1	1472.7	1703.4	1826.5	1961.9	2042.9
27.5°	1625.0	1612.2	1564.5	1509.1	1459.3	1487.0	1691.6	1835.7	2011.6	2108.0
30°	1813.2	1799.3	1739.3	1654.2	1565.0	1540.4	1706.5	1862.9	2075.2	2194.7
32.5°	1981.9	1966.5	1915.2	1828.5	1708.0	1632.7	1753.7	1914.7	2175.2	2315.2
35°	2131.6	2113.6	2067.5	1987.5	1883.4	1762.4	1838.8	2006.5	2317.2	2511.0
37.5°	2278.2	2257.2	2207.0	2122.4	2049.5	1935.2	1956.2	2124.4	2505.9	2749.0
40°	2442.3	2412.1	2351.1	2267.5	2196.7	2137.7	2110.6	2269.0	2697.7	3014.6
42.5°	2601.3	2572.6	2499.8	2428.5	2339.8	2322.9	2289.5	2438.2	2907.4	3306.4
45°	2772.6	2738.2	2650.0	2559.8	2503.9	2445.9	2462.8	2607.4	3113.0	3603.8
47.5°	2933.1	2894.6	2790.5	2690.0	2659.2	2549.5	2621.8	2793.6	3326.9	3905.3
50°	3019.7	2981.8	2895.1	2804.3	2780.2	2677.2	2794.1	2998.2	3550.9	4205.8
52.5°	3092.0	3051.0	2937.7	2887.4	2880.2	2816.1	3006.4	3232.0	3775.0	4471.4
55°	3168.9	3123.3	2978.7	2933.6	2966.4	2972.0	3258.2	3497.1	4011.9	4730.3
57.5°	3257.6	3199.7	3018.2	2972.5	3050.5	3154.6	3547.4	3771.9	4244.7	4970.3
60°	3341.2	3282.8	3094.1	3034.6	3141.2	3366.3	3879.1	4104.7	4508.3	5184.1
62.5°	3357.6	3309.4	3154.6	3154.1	3264.3	3613.5	4271.9	4440.6	4738.5	5395.4
65°	3073.6	3043.3	2951.5	3149.4	3440.7	3969.4	4709.3	4870.3	5031.3	5580.0
67.5°	2339.3	2343.4	2336.7	2718.7	3298.1	4480.6	5342.6	5330.3	5392.8	5787.1
70°	1069.6	1093.7	1250.7	1876.7	2642.3	4539.6	6389.6	6230.2	5846.6	6055.3
72.5°	577.9	596.4	660.5	909.1	1588.6	4036.0	7172.1	7285.5	6450.2	6235.8
75°	424.1	434.3	478.9	577.9	667.1	2999.7	6891.7	7473.1	6525.5	5814.8
77.5°	317.4	322.0	358.4	457.9	341.5	1581.4	5506.7	6189.2	5586.1	4777.5
80°	230.2	235.4	262.5	343.6	239.5	578.4	3781.2	4344.2	3825.8	3045.4
82.5°	159.0	161.0	172.8	233.8	167.2	224.6	2145.4	2547.5	2135.7	1068.6
85°	95.9	98.5	103.6	136.4	94.9	106.7	926.1	957.9	638.4	255.4
87.5°	39.5	42.0	46.1	57.4	37.4	29.7	152.8	191.8	119.5	74.9
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°
1749.6	0°	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6	1749.6
1754.7	2.5°	1752.1	1748.6	1738.8	1725.5	1713.2	1697.8	1691.1	1685.5	1680.4	1670.6
1768.5	5°	1762.9	1753.2	1727.0	1693.2	1654.7	1612.7	1571.6	1543.4	1519.3	1501.4
1784.4	7.5°	1779.3	1760.9	1713.2	1643.9	1555.7	1465.5	1384.0	1326.0	1282.4	1266.5
1807.0	10°	1796.2	1774.2	1691.1	1569.1	1416.8	1277.8	1169.6	1110.2	1075.3	1064.0
1833.7	12.5°	1816.2	1783.9	1656.8	1465.0	1261.4	1109.1	1014.8	979.9	962.0	955.8
1866.5	15°	1845.5	1792.1	1605.0	1334.7	1113.2	986.1	925.0	900.9	891.7	891.2
1900.3	17.5°	1867.5	1793.7	1524.5	1195.3	999.4	911.7	861.5	852.2	858.4	867.6
1933.7	20°	1892.1	1779.8	1418.8	1068.1	919.4	846.6	825.6	831.7	846.6	859.9
1977.8	22.5°	1909.6	1754.7	1291.2	969.1	850.2	809.2	808.1	820.9	829.2	835.8
2029.6	25°	1924.9	1712.1	1155.8	886.1	793.3	786.6	797.9	793.8	788.1	793.8
2081.3	27.5°	1936.2	1645.0	1034.8	813.3	753.3	771.2	764.5	755.3	754.8	757.9
2142.4	30°	1932.6	1555.2	935.3	744.0	725.1	742.5	726.6	725.1	723.5	725.1
2234.1	32.5°	1932.6	1453.2	858.9	696.3	707.1	700.4	698.9	695.3	689.2	688.7
2358.8	35°	1943.4	1351.2	793.3	670.7	692.2	676.3	677.4	668.7	655.8	649.7
2523.9	37.5°	1965.5	1269.1	728.1	658.4	666.1	665.6	661.5	646.6	624.0	604.6
2730.0	40°	2018.8	1245.0	683.5	652.8	653.8	659.9	649.2	620.5	569.2	537.4
2939.2	42.5°	2102.4	1285.5	673.8	638.9	645.6	651.7	630.7	564.0	527.6	508.7
3158.7	45°	2208.5	1356.3	694.8	618.9	626.1	636.9	574.3	542.5	526.1	526.6
3376.1	47.5°	2342.9	1430.6	733.8	601.5	597.9	604.0	536.9	517.4	494.8	500.5
3584.8	50°	2498.2	1506.0	770.7	577.9	566.6	546.6	512.8	494.3	465.6	452.3
3786.3	52.5°	2666.4	1578.8	785.6	549.2	532.8	509.7	496.4	473.8	438.9	416.9
3976.5	55°	2825.9	1645.0	769.2	514.8	498.9	481.0	478.9	465.1	427.7	396.9
4145.8	57.5°	2976.6	1700.4	728.1	480.0	464.6	453.8	467.6	461.0	413.8	374.3
4305.7	60°	3104.3	1738.3	668.7	444.6	433.8	428.2	449.2	447.1	394.3	350.2
4449.3	62.5°	3205.8	1753.2	603.0	410.7	408.2	397.9	423.5	423.5	369.7	326.6
4575.5	65°	3285.3	1738.8	536.4	377.4	382.5	367.1	392.3	389.2	343.6	305.6
4720.6	67.5°	3355.6	1691.6	462.5	344.6	356.4	336.9	359.5	352.3	314.8	284.6
4846.2	70°	3386.9	1581.9	378.4	311.8	326.1	307.2	326.6	313.3	282.5	262.0
4708.3	72.5°	3135.6	1314.7	297.9	277.4	289.7	274.3	291.3	275.9	247.7	238.4
4065.8	75°	2594.1	986.6	229.2	240.0	249.2	237.4	248.7	237.4	211.8	218.4
3003.3	77.5°	1883.9	666.1	175.4	200.5	204.6	198.4	208.2	195.4	172.3	170.8
1496.8	80°	936.8	390.2	137.4	158.4	156.9	152.8	164.1	157.9	138.4	146.7
404.1	82.5°	271.3	167.2	100.0	111.3	108.2	109.2	117.4	120.5	180.5	179.0
125.6	85°	85.1	65.6	60.0	62.0	59.0	60.5	69.2	137.4	127.2	74.4
39.0	87.5°	22.0	22.6	14.9	15.9	16.4	19.5	22.0	83.6	40.0	26.2
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>
1749.6
1666.0
1486.5
1238.9
1046.6
957.3
893.2
871.2
864.5
839.4
797.4
763.0
730.7
695.3
655.8
611.2
541.5
508.7
529.2
514.8
455.9
416.4
396.9
372.3
348.7
325.1
303.6
282.5
257.9
230.7
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163.1
145.1
183.1
80.5
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