

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: P950875

Luminaire Tested: **GALN-SB5A-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16857 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

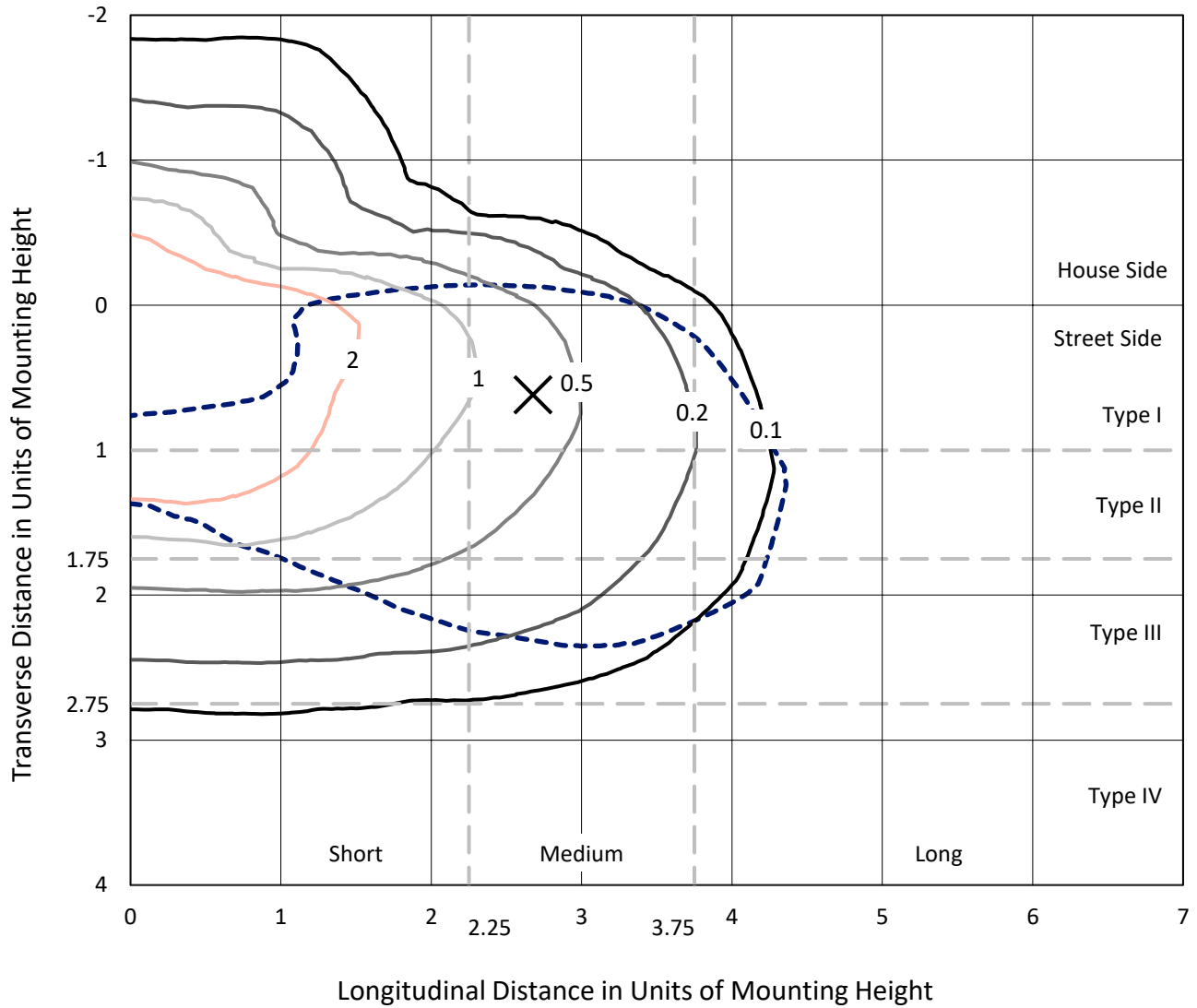
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

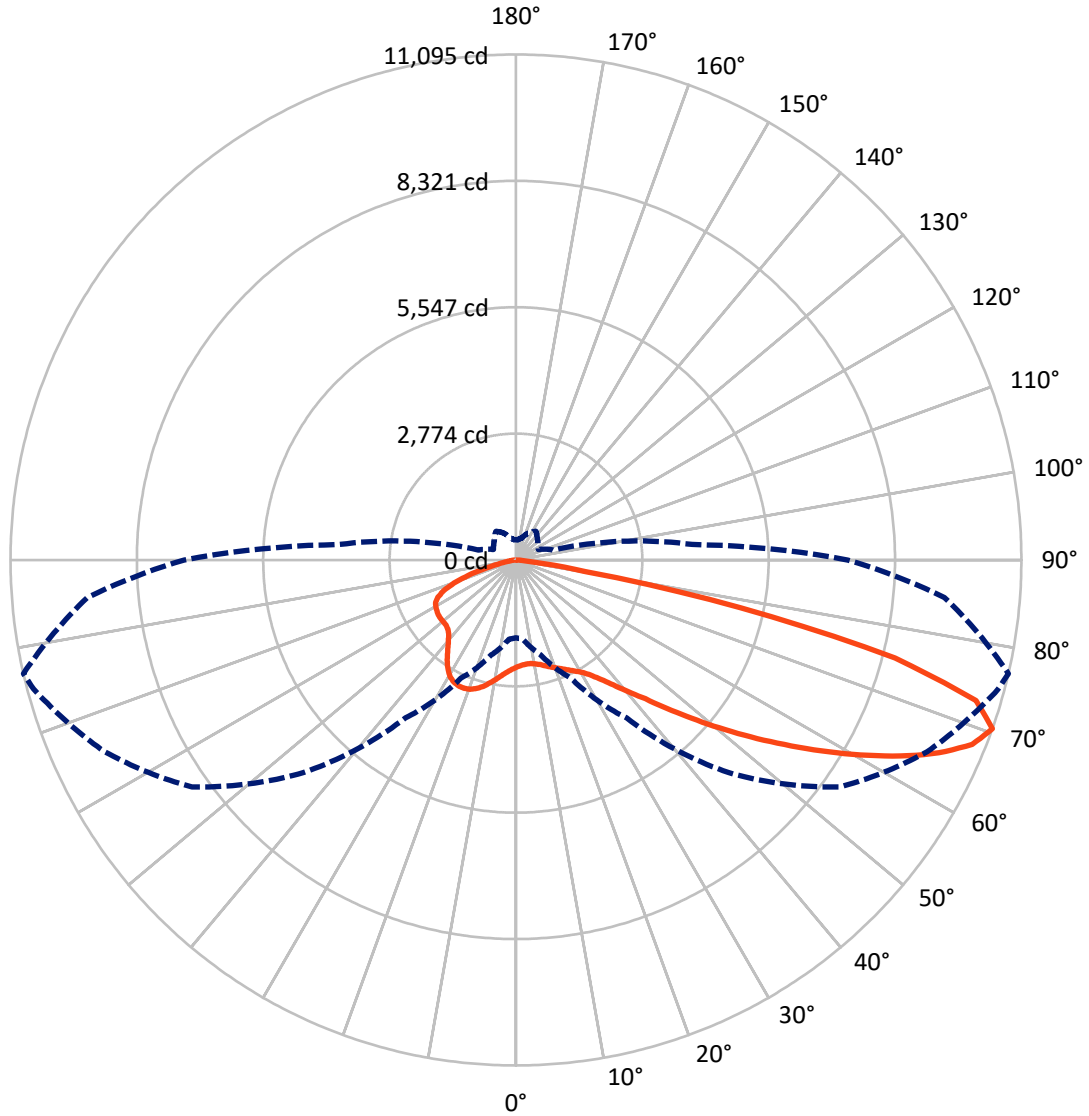
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3691.4	0.0	3691.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13165.6	0.0	13165.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	16857.0	0.0	16857.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	1.3
10°-20°	647.3	3.8
20°-30°	1107.0	6.6
30°-40°	1780.2	10.6
40°-50°	2779.3	16.5
50°-60°	3712.5	22.0
60°-70°	3957.0	23.5
70°-80°	2435.9	14.5
80°-90°	213.4	1.3
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°	16857.0	100.0
0°-180°	16857.0	100.0

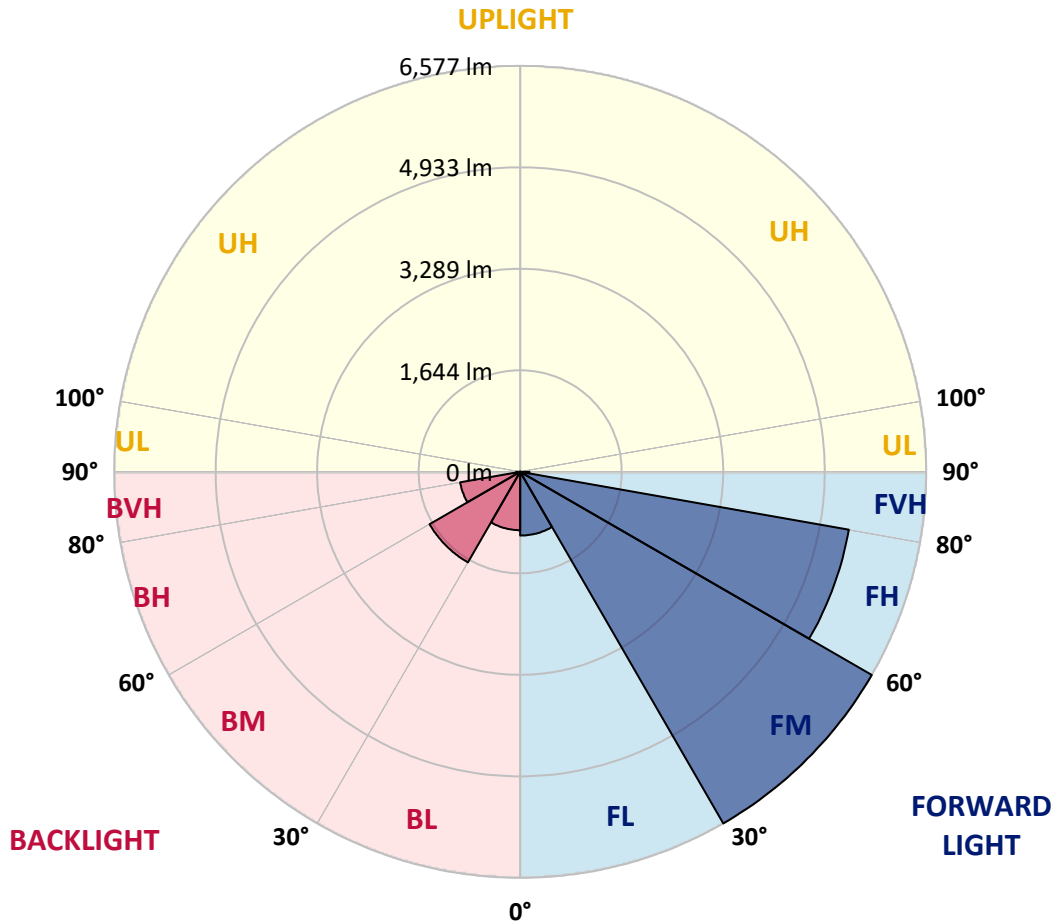


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1032.8	6.1			
FM (30°-60°)	6577.2	39.0			
FH (60°-80°)	5406.3	32.1			G3/7500
FVH (80°-90°)	149.3	0.9			G2/225
BL (0°-30°)	945.9	5.6	B2/1000		
BM (30°-60°)	1694.8	10.1	B2/2500		
BH (60°-80°)	986.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	64.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7
2.5°	2167.8	2167.0	2178.2	2181.6	2202.3	2217.0	2244.7	2274.0	2312.0	2316.3
5°	2042.6	2042.6	2055.6	2069.4	2096.2	2125.5	2167.8	2218.8	2284.4	2294.7
7.5°	1936.4	1943.4	1954.6	1981.3	2012.4	2054.7	2119.5	2192.0	2278.3	2294.7
10°	1851.0	1858.7	1872.6	1894.1	1940.8	1999.5	2084.1	2177.3	2293.0	2318.9
12.5°	1824.2	1832.0	1839.8	1856.2	1899.3	1968.4	2069.4	2184.2	2328.4	2354.3
15°	1886.4	1895.9	1889.8	1885.5	1908.0	1971.0	2076.3	2209.3	2372.4	2409.5
17.5°	2029.7	2033.1	2019.3	1978.7	1975.3	2009.0	2109.1	2243.8	2427.7	2468.3
20°	2261.1	2255.0	2226.5	2146.2	2100.5	2093.6	2165.2	2295.6	2484.7	2527.8
22.5°	2575.3	2568.4	2511.4	2384.5	2282.6	2215.3	2246.4	2362.9	2548.5	2596.9
25°	2967.3	2957.8	2874.0	2701.4	2543.4	2376.7	2356.9	2451.9	2627.1	2672.0
27.5°	3424.8	3417.1	3326.4	3098.5	2870.6	2597.8	2494.2	2556.3	2709.1	2760.1
30°	3916.9	3939.4	3778.8	3533.6	3245.2	2886.1	2678.9	2684.9	2815.3	2861.1
32.5°	4495.3	4534.2	4340.8	4030.0	3636.3	3199.5	2912.0	2864.5	2969.8	3007.8
35°	5068.6	5112.6	4952.0	4608.4	4155.2	3569.0	3155.5	3070.9	3175.3	3216.8
37.5°	5564.1	5622.9	5540.0	5241.3	4710.3	4014.5	3473.2	3313.5	3428.3	3480.1
40°	5955.2	6045.0	6039.0	5852.5	5364.7	4554.9	3876.3	3613.0	3742.5	3798.6
42.5°	6272.9	6350.6	6418.0	6408.5	6047.6	5168.7	4350.3	4002.4	4100.8	4165.6
45°	6492.2	6575.1	6720.1	6876.4	6704.6	5825.7	4893.3	4464.3	4554.1	4651.6
47.5°	6688.2	6782.3	6970.5	7218.3	7262.3	6485.3	5488.2	5002.1	5084.1	5185.1
50°	6705.5	6786.6	7078.4	7429.8	7658.6	7119.0	6127.0	5605.6	5682.4	5790.3
52.5°	6288.5	6416.3	6925.6	7423.8	7840.7	7649.1	6761.6	6233.2	6319.6	6449.1
55°	4881.3	5068.6	6477.5	7192.4	7776.0	7991.8	7365.1	6900.6	7011.1	7146.6
57.5°	4204.4	4286.4	5142.0	6771.1	7480.7	8080.7	7874.4	7574.8	7752.7	7901.2
60°	3778.8	3847.0	4352.9	6115.8	7092.2	7940.0	8268.1	8203.3	8510.7	8687.7
62.5°	3322.9	3387.7	3847.9	5106.6	6595.0	7706.1	8516.7	8783.5	9287.7	9481.1
65°	2870.6	2925.8	3367.0	4290.7	5963.0	7472.1	8645.4	9285.1	10006.8	10207.1
67.5°	2366.4	2412.1	2829.1	3619.9	5194.6	7151.8	8709.3	9679.6	10632.7	10804.5
70°	1707.7	1743.1	2173.9	2862.8	4230.3	6601.0	8683.4	9959.4	10957.4	11094.6
72.5°	807.2	839.2	1345.1	1858.7	2988.0	5528.8	8159.3	9737.5	10627.6	10559.4
75°	430.8	458.4	772.7	1019.6	1578.2	3790.0	6677.0	8388.1	8924.2	8592.7
77.5°	291.8	313.4	478.3	612.1	720.9	1799.2	4291.6	5807.6	5587.5	5040.1
80°	231.4	253.8	392.0	414.4	348.8	650.1	1773.3	2688.4	1931.3	1544.5
82.5°	177.8	202.9	329.8	300.4	189.9	266.8	516.3	850.4	494.7	376.4
85°	108.8	135.5	259.0	191.7	107.1	121.7	175.3	236.6	151.1	126.0
87.5°	55.3	77.7	131.2	69.9	48.3	28.5	46.6	46.6	39.7	34.5
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°
2351.7	0°	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7	2351.7
2339.6	2.5°	2360.3	2377.6	2407.0	2434.6	2456.2	2476.9	2497.6	2508.8	2512.3	2526.1
2352.6	5°	2388.0	2419.9	2476.9	2530.4	2564.1	2584.8	2599.5	2608.1	2609.8	2614.2
2388.0	7.5°	2438.9	2489.8	2569.3	2622.8	2647.8	2646.1	2640.1	2618.5	2609.8	2602.1
2439.8	10°	2510.6	2577.9	2675.5	2712.6	2697.0	2655.6	2602.1	2539.0	2509.7	2481.2
2510.6	12.5°	2599.5	2684.9	2780.8	2779.1	2702.2	2596.0	2471.7	2375.0	2313.7	2269.7
2597.8	15°	2707.4	2805.8	2879.2	2820.5	2652.1	2461.3	2279.2	2153.1	2097.9	2049.5
2685.8	17.5°	2818.8	2924.1	2957.8	2807.5	2526.1	2261.9	2055.6	1956.3	1901.9	1876.0
2780.8	20°	2927.5	3032.0	3004.4	2733.3	2334.4	2035.7	1851.8	1797.4	1786.2	1792.3
2873.2	22.5°	3042.4	3135.6	3013.9	2590.0	2090.1	1804.4	1703.3	1705.1	1730.1	1748.2
2969.8	25°	3159.8	3222.8	2988.8	2382.8	1827.7	1634.3	1609.2	1636.9	1686.1	1721.5
3078.6	27.5°	3272.9	3300.5	2934.5	2126.4	1602.3	1512.6	1516.9	1573.8	1648.1	1697.3
3210.7	30°	3400.6	3369.6	2830.0	1838.0	1446.1	1408.1	1444.3	1510.8	1585.1	1629.1
3377.3	32.5°	3544.8	3429.1	2664.2	1571.3	1335.6	1324.3	1383.9	1427.1	1459.9	1472.8
3598.4	35°	3724.4	3512.9	2451.9	1383.9	1236.3	1263.0	1320.0	1298.4	1285.5	1278.6
3895.3	37.5°	3957.5	3626.0	2203.2	1262.2	1156.0	1219.0	1242.3	1175.0	1124.1	1099.0
4255.3	40°	4238.1	3791.7	1964.1	1168.1	1105.1	1181.0	1140.5	1059.3	994.6	959.2
4660.2	42.5°	4549.7	3965.3	1762.9	1097.3	1076.6	1150.0	1065.3	968.7	864.2	853.0
5142.8	45°	4876.9	4144.0	1625.6	1042.9	1062.8	1123.2	1022.2	865.9	791.7	837.4
5627.2	47.5°	5204.1	4308.0	1542.8	1002.3	1055.9	1093.0	984.2	808.9	756.3	822.8
6146.0	50°	5568.5	4454.8	1505.6	973.0	1048.1	1080.9	927.2	794.3	719.2	763.2
6683.0	52.5°	5930.2	4568.7	1478.0	943.6	1036.9	1071.4	899.6	777.0	674.3	676.8
7223.5	55°	6291.1	4643.0	1447.8	904.8	1011.8	1050.7	897.0	758.0	640.6	628.5
7795.0	57.5°	6676.1	4685.3	1410.7	861.6	968.7	998.0	894.4	743.3	630.2	610.4
8379.5	60°	7068.1	4747.4	1362.3	808.9	910.8	935.0	888.4	738.1	624.2	590.5
8930.3	62.5°	7419.4	4769.0	1304.5	758.9	836.6	872.8	875.4	733.8	607.8	549.9
9387.8	65°	7649.9	4675.8	1203.5	701.9	756.3	808.9	850.4	719.2	578.4	520.6
9614.0	67.5°	7640.5	4409.9	1045.5	628.5	678.6	738.1	814.1	694.1	543.0	484.3
9443.1	70°	7284.8	3885.0	845.2	543.0	593.1	662.2	767.5	657.0	500.7	444.6
8396.7	72.5°	6247.9	3040.6	613.8	442.9	493.8	583.6	707.1	612.1	457.6	409.2
6205.6	75°	4463.4	1924.4	416.1	340.2	384.2	494.7	632.0	559.4	417.9	410.9
3108.0	77.5°	2280.0	919.4	275.4	248.6	267.6	390.2	530.9	499.9	423.9	339.3
884.0	80°	741.6	339.3	173.5	169.2	177.8	259.9	410.9	410.1	321.2	230.5
214.1	82.5°	236.6	145.9	113.1	108.8	104.5	163.2	286.6	324.6	216.7	145.9
76.8	85°	94.1	87.2	66.5	61.3	44.0	76.8	150.2	215.8	161.4	105.3
19.9	87.5°	34.5	34.5	18.1	12.9	9.5	25.9	40.6	64.7	92.4	54.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
2351.7
2533.9
2621.1
2603.8
2472.6
2259.3
2044.4
1883.8
1789.7
1752.6
1731.0
1709.4
1639.5
1479.7
1285.5
1105.1
961.7
864.2
861.6
853.8
796.0
695.0
637.1
613.0
593.1
549.9
520.6
486.9
449.8
406.6
387.6
302.2
203.7
145.0
107.9
53.5
0.0

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