

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: P941075

Luminaire Tested: **GALN-SB4B-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941075  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
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-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16204 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

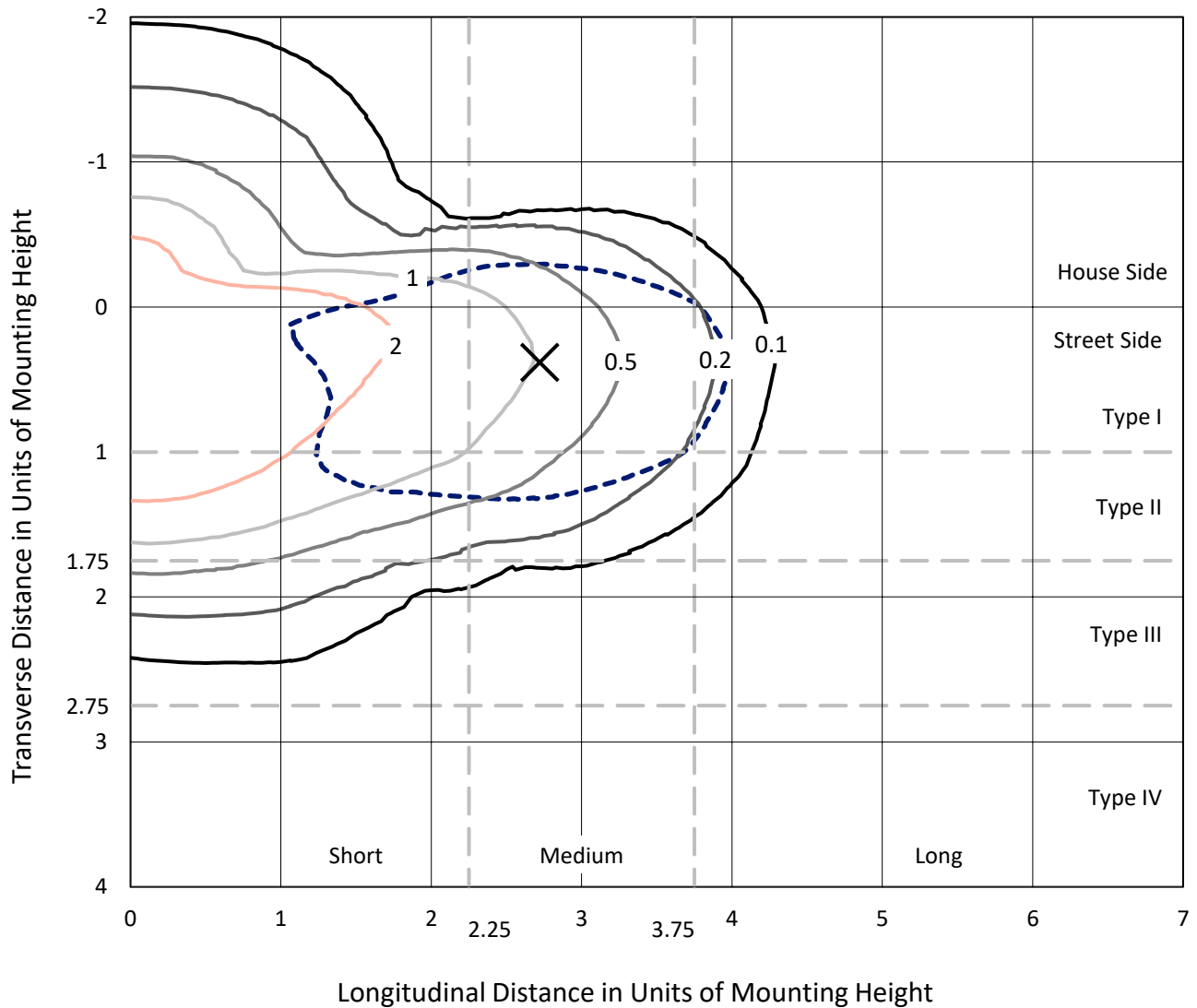
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

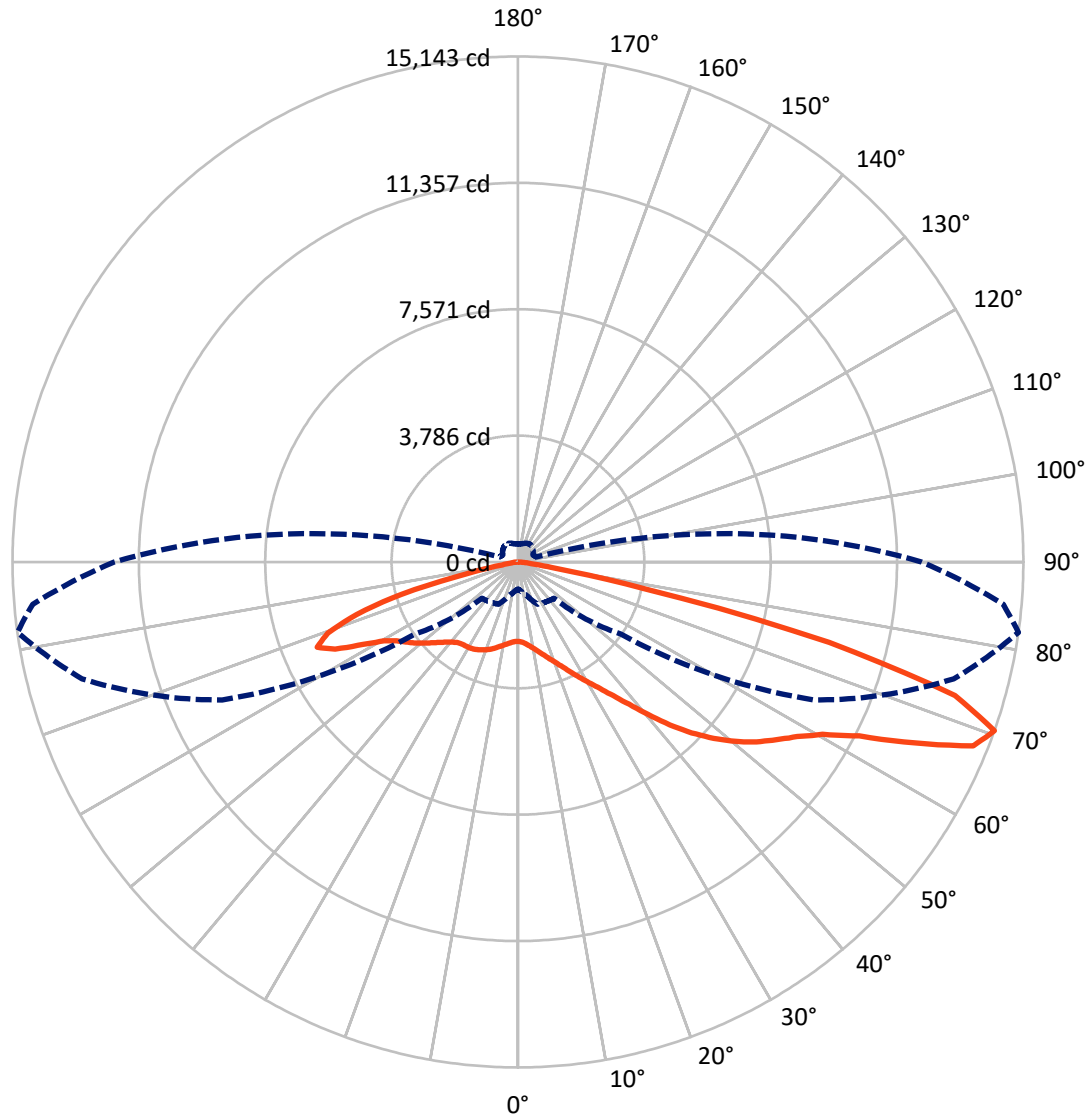
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3994.7	0.0	3994.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	12209.3	0.0	12209.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	16204.0	0.0	16204.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.3	1.4
10°-20°	644.5	4.0
20°-30°	1078.1	6.7
30°-40°	1684.3	10.4
40°-50°	2682.4	16.6
50°-60°	3732.9	23.0
60°-70°	3904.8	24.1
70°-80°	2040.9	12.6
80°-90°	211.9	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°	16204.0	100.0
0°-180°	16204.0	100.0

**Coefficient of Utilization**



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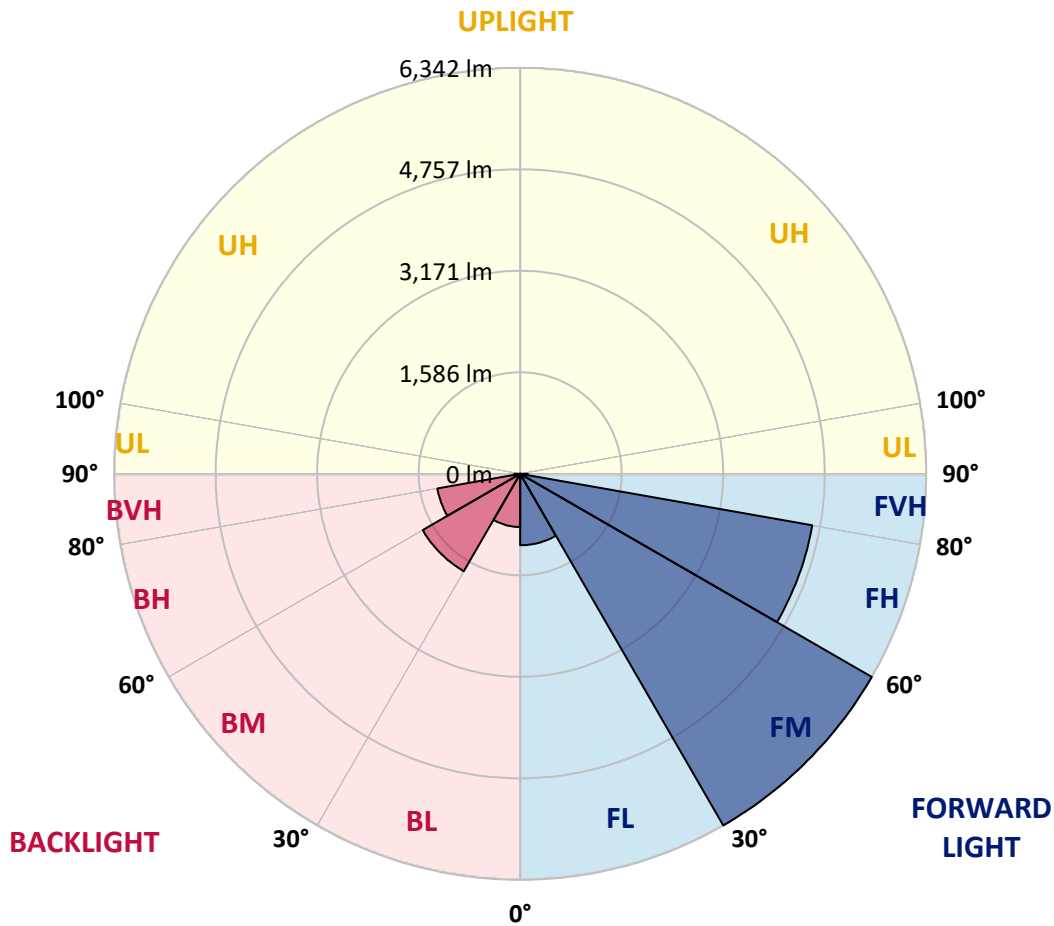
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.8	6.9			
FM (30°-60°)	6342.1	39.1			
FH (60°-80°)	4632.8	28.6			G2/5000
FVH (80°-90°)	118.6	0.7			G2/225
BL (0°-30°)	831.0	5.1	B2/1000		
BM (30°-60°)	1757.5	10.8	B2/2500		
BH (60°-80°)	1312.9	8.1	B3/2500		G3/2500
BVH (80°-90°)	93.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2.5°	2432.5	2446.2	2441.9	2437.6	2437.6	2431.6	2430.7	2422.1	2415.3	2404.1
5°	2463.4	2478.0	2476.3	2479.7	2490.9	2493.5	2496.1	2490.9	2477.2	2463.4
7.5°	2435.9	2452.2	2457.4	2478.0	2512.4	2543.4	2566.6	2576.0	2563.2	2543.4
10°	2343.0	2361.1	2379.1	2428.2	2489.2	2562.3	2624.2	2661.2	2658.6	2639.7
12.5°	2154.7	2173.6	2212.3	2307.8	2419.6	2548.5	2663.8	2741.1	2767.8	2754.0
15°	2004.3	2020.6	2049.8	2147.9	2293.2	2489.2	2678.4	2828.8	2896.8	2889.0
17.5°	2000.0	2006.8	2024.9	2071.3	2183.1	2396.3	2662.9	2914.8	3044.7	3043.8
20°	2075.6	2078.2	2088.5	2098.0	2161.6	2325.8	2623.3	2986.2	3210.6	3210.6
22.5°	2180.5	2178.8	2189.1	2180.5	2211.5	2319.8	2598.4	3049.0	3395.5	3409.2
25°	2337.9	2329.3	2326.7	2306.9	2312.9	2375.7	2625.9	3120.3	3614.7	3643.1
27.5°	2547.7	2533.9	2524.5	2478.9	2463.4	2490.9	2710.2	3206.3	3858.9	3907.9
30°	2821.1	2796.2	2782.4	2703.3	2647.4	2651.7	2837.4	3320.7	4114.3	4193.4
32.5°	3194.3	3155.6	3118.6	2988.8	2886.4	2852.9	3001.7	3478.9	4391.1	4517.5
35°	3612.1	3581.2	3541.6	3341.3	3183.9	3106.6	3223.5	3699.8	4715.3	4915.6
37.5°	4014.5	3987.9	4006.8	3736.8	3533.9	3421.3	3514.1	3996.5	5115.1	5410.9
40°	4430.7	4410.1	4412.6	4154.7	3918.2	3791.8	3866.7	4368.8	5573.4	5999.9
42.5°	4883.0	4867.5	4815.9	4587.2	4321.5	4203.7	4272.5	4798.7	6065.2	6670.6
45°	5389.4	5380.0	5331.8	5069.6	4765.2	4632.8	4725.6	5273.3	6559.6	7301.7
47.5°	5827.1	5834.8	5828.8	5607.8	5292.3	5097.9	5208.8	5768.6	7019.6	7895.0
50°	6037.7	6078.1	6137.5	6068.7	5872.6	5674.9	5696.4	6246.7	7458.2	8451.3
52.5°	5927.7	6004.2	6165.8	6275.9	6351.6	6310.3	6252.7	6721.3	7870.9	8953.4
55°	5517.5	5625.0	5893.3	6159.0	6545.0	6845.1	6920.8	7247.5	8273.3	9395.4
57.5°	4770.3	4944.9	5185.6	5723.0	6373.1	7103.9	7699.8	7977.5	8699.8	9867.4
60°	3489.2	3723.1	4022.3	4821.9	5771.2	6965.5	8362.7	9098.7	9305.9	10478.7
62.5°	2233.0	2377.4	2652.6	3405.8	4496.9	6256.1	8565.6	10500.2	10333.4	11481.3
65°	1528.8	1621.6	1873.6	2296.6	2907.1	4656.8	8022.2	11551.0	11965.4	13070.3
67.5°	1110.9	1181.4	1396.4	1766.9	1894.2	2755.8	6225.2	11502.8	13551.8	14707.4
70°	810.0	859.8	1040.4	1396.4	1457.4	1533.1	3771.2	9778.0	13517.4	15142.5
72.5°	600.2	634.6	755.8	1083.4	1179.7	1035.2	1866.7	7106.5	11615.4	13696.2
75°	434.2	460.0	549.4	828.9	944.1	788.5	931.2	4153.0	8102.2	9634.4
77.5°	331.9	351.7	410.1	607.0	755.8	591.6	577.8	1910.5	3841.7	3860.6
80°	266.5	279.4	311.3	427.3	579.5	442.8	376.6	771.3	1214.1	1027.5
82.5°	196.0	217.5	263.1	300.1	414.4	305.2	229.6	389.5	461.7	397.2
85°	111.8	126.4	159.1	215.0	264.8	186.6	131.6	172.8	215.0	176.3
87.5°	39.6	51.6	55.9	84.3	115.2	77.4	50.7	49.9	70.5	52.4
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°
2375.7	0°	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7	2375.7
2401.5	2.5°	2392.9	2388.6	2371.4	2348.2	2324.1	2300.9	2293.2	2276.8	2265.7	2259.6
2457.4	5°	2441.1	2427.3	2386.9	2335.3	2281.1	2222.7	2181.4	2143.6	2116.0	2090.2
2533.9	7.5°	2509.8	2485.8	2416.1	2325.8	2229.5	2132.4	2060.2	2005.1	1968.1	1944.1
2623.3	10°	2589.8	2552.8	2446.2	2311.2	2162.5	2023.2	1938.1	1890.8	1867.5	1854.7
2725.7	12.5°	2681.8	2629.4	2477.2	2277.7	2060.2	1901.1	1842.6	1828.9	1829.7	1830.6
2854.6	15°	2795.3	2722.2	2502.1	2204.6	1926.9	1807.4	1797.0	1819.4	1842.6	1853.8
3000.8	17.5°	2923.4	2820.2	2506.4	2084.2	1796.2	1747.2	1779.8	1828.0	1863.3	1878.7
3164.2	20°	3061.0	2920.0	2475.4	1914.0	1688.7	1698.2	1756.6	1818.5	1857.2	1877.0
3350.8	22.5°	3218.3	3026.6	2401.5	1735.1	1601.0	1644.9	1713.6	1773.8	1814.2	1834.0
3570.0	25°	3398.0	3146.1	2285.4	1584.7	1525.3	1584.7	1653.5	1703.3	1736.0	1754.1
3815.1	27.5°	3597.5	3270.8	2130.7	1465.1	1459.1	1522.8	1579.5	1618.2	1635.4	1649.2
4075.6	30°	3797.9	3384.3	1943.2	1374.9	1401.5	1461.7	1502.1	1519.3	1524.5	1527.1
4366.2	32.5°	4014.5	3482.3	1746.3	1300.1	1346.5	1402.4	1426.5	1434.2	1410.1	1393.8
4718.7	35°	4276.8	3587.2	1553.7	1240.7	1292.3	1340.5	1348.2	1341.3	1313.0	1279.4
5160.7	37.5°	4600.9	3717.9	1399.8	1198.6	1241.6	1273.4	1263.9	1262.2	1264.8	1225.3
5692.1	40°	4998.2	3888.1	1287.2	1165.9	1200.3	1207.2	1180.5	1195.2	1208.1	1147.9
6275.0	42.5°	5439.3	4093.6	1215.8	1143.6	1165.9	1149.6	1108.3	1124.7	1122.9	1043.8
6860.6	45°	5889.0	4317.2	1190.9	1127.2	1134.1	1101.4	1055.9	1060.2	1024.1	952.7
7422.0	47.5°	6336.1	4557.1	1206.3	1113.5	1094.6	1057.6	1022.3	1003.4	950.1	896.8
7960.3	50°	6774.6	4809.0	1263.1	1086.0	1040.4	1018.9	993.1	959.6	902.8	857.3
8469.3	52.5°	7181.3	5062.7	1326.7	1040.4	972.5	985.4	969.0	930.3	874.4	828.0
8950.8	55°	7566.5	5316.3	1351.7	977.6	908.8	956.1	946.7	875.3	808.2	770.4
9454.7	57.5°	7986.1	5621.6	1324.1	897.7	857.3	922.6	886.5	807.4	768.7	740.3
10110.7	60°	8567.3	6100.5	1264.8	798.8	808.2	872.7	810.8	778.1	736.0	704.2
11094.4	62.5°	9532.9	6993.9	1169.4	700.8	750.6	798.8	774.7	742.0	699.0	668.1
12776.2	65°	10960.2	8235.4	989.7	624.2	686.1	726.6	736.0	703.3	658.6	626.0
14250.0	67.5°	12164.0	9014.5	748.9	560.6	619.9	668.1	694.7	662.9	615.6	583.8
14594.7	70°	12097.8	8448.7	571.8	497.8	561.5	610.5	644.9	619.9	569.2	539.1
13256.9	72.5°	10745.3	7067.8	462.6	434.2	502.1	550.3	591.6	572.6	521.1	491.8
9711.8	75°	7894.1	5017.1	369.7	369.7	428.2	487.5	533.1	521.1	473.8	453.1
4077.3	77.5°	3327.5	2104.9	289.8	307.0	356.0	418.7	475.5	479.8	438.5	464.3
1078.2	80°	884.8	580.4	221.0	241.6	279.4	345.7	413.6	411.9	367.1	343.1
400.7	82.5°	337.1	228.7	157.3	170.2	202.1	264.8	327.6	337.9	293.2	253.6
157.3	85°	129.8	98.0	97.2	102.3	117.8	175.4	247.6	256.2	221.0	187.4
43.9	87.5°	33.5	29.2	36.1	34.4	54.2	93.7	141.9	147.0	135.0	78.2
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>
2375.7
2266.5
2100.6
1949.2
1858.1
1832.3
1852.9
1882.2
1882.2
1839.2
1759.2
1654.3
1533.1
1398.9
1281.1
1227.8
1149.6
1043.0
955.3
896.8
853.8
828.9
767.0
737.7
702.5
668.1
627.7
584.7
541.7
491.8
447.1
421.3
319.0
253.6
193.5
111.8
0.0

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