

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: P949113

Luminaire Tested: **GALN-SB3D-950-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3D-950-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

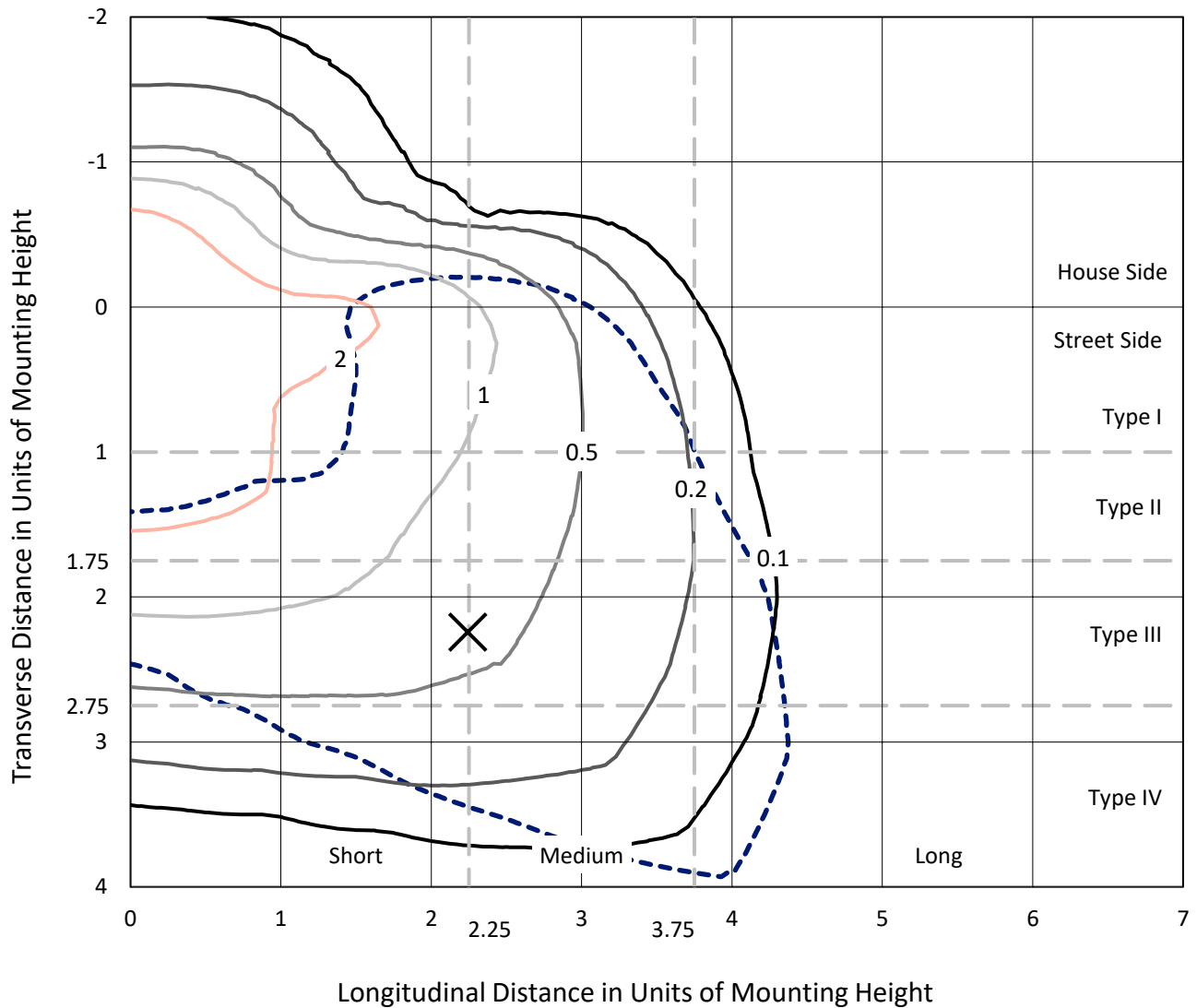
Lumens per Lamp: N/A  
Luminaire Lumens: 21198 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

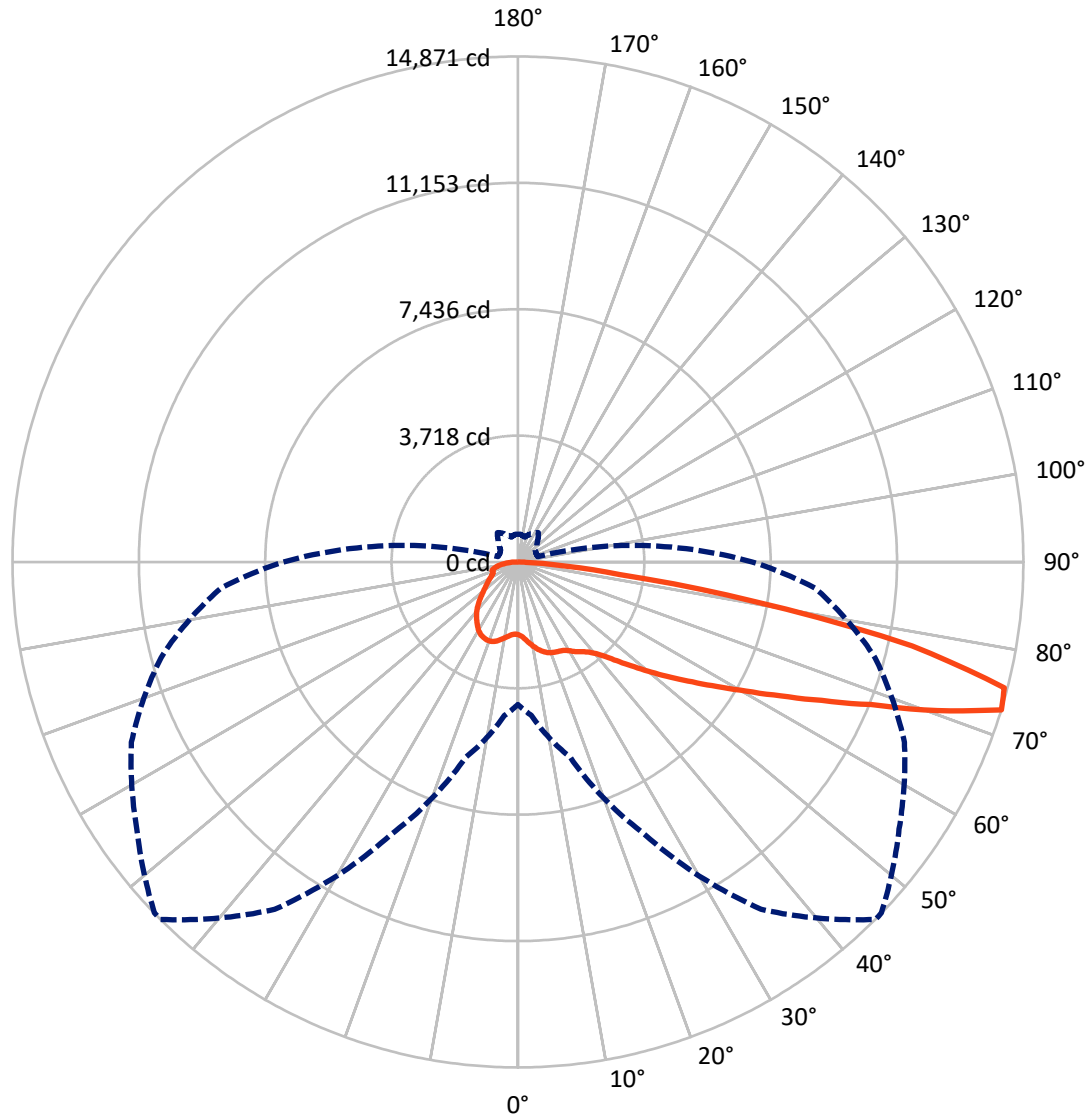
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4792.1	0.0	4792.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	16405.9	0.0	16405.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	21198.0	0.0	21198.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.7	1.0
10°-20°	725.7	3.4
20°-30°	1262.4	6.0
30°-40°	1809.7	8.5
40°-50°	2548.1	12.0
50°-60°	3903.0	18.4
60°-70°	5654.1	26.7
70°-80°	4515.1	21.3
80°-90°	562.3	2.7
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°	21198.0	100.0
0°-180°	21198.0	100.0



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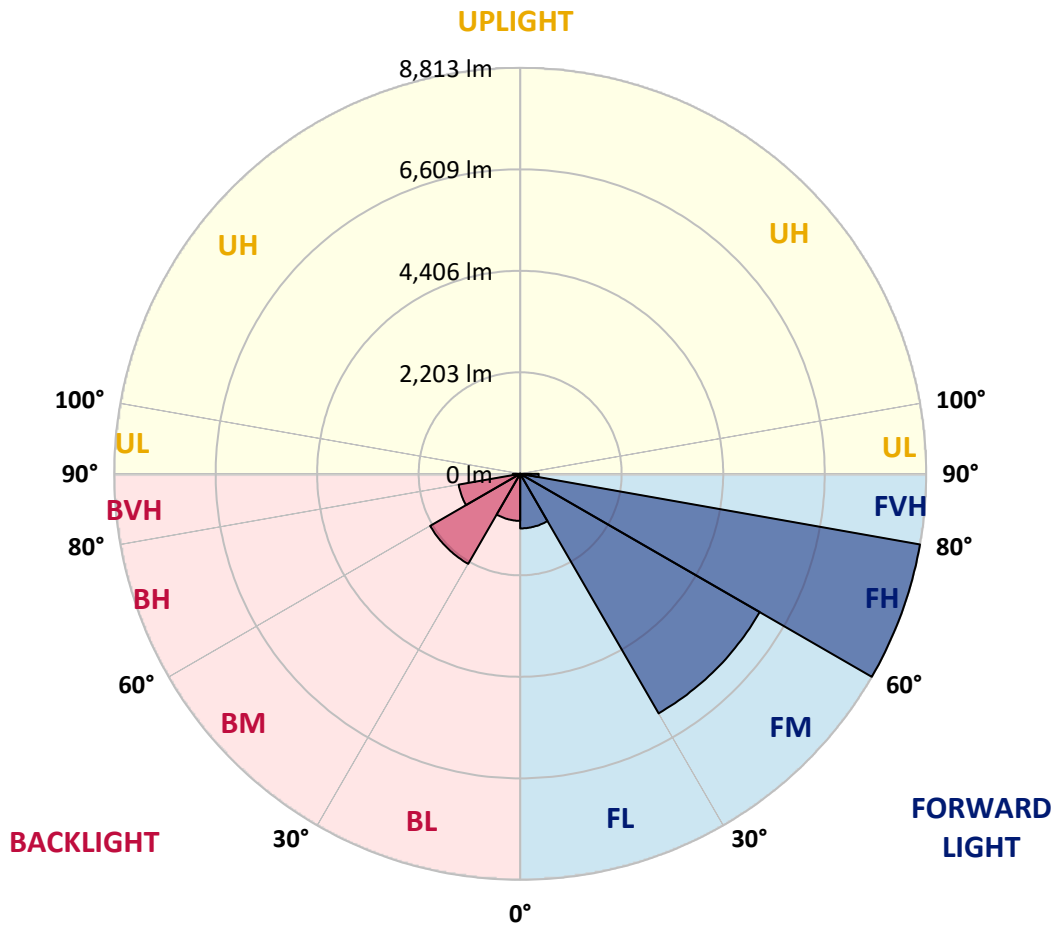
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.4	5.6			
FM (30°-60°)	6004.4	28.3			
FH (60°-80°)	8812.6	41.6			G4/12000
FVH (80°-90°)	403.4	1.9			G3/500
BL (0°-30°)	1020.3	4.8	B3/2500		
BM (30°-60°)	2256.4	10.6	B2/2500		
BH (60°-80°)	1356.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	158.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5
2.5°	2222.2	2236.7	2223.3	2211.1	2205.5	2191.0	2189.8	2180.9	2175.3	2159.7
5°	2377.4	2396.4	2374.1	2349.5	2327.2	2291.5	2287.0	2261.3	2232.3	2198.8
7.5°	2552.8	2569.5	2543.8	2507.0	2467.9	2408.7	2407.6	2360.7	2314.9	2258.0
10°	2705.7	2728.1	2693.5	2643.2	2594.1	2527.1	2519.3	2465.7	2407.6	2333.9
12.5°	2840.9	2856.5	2823.0	2761.6	2704.6	2637.6	2627.6	2568.4	2503.6	2419.9
15°	2948.1	2968.2	2923.5	2857.6	2797.3	2731.4	2722.5	2668.9	2604.1	2515.9
17.5°	3018.4	3035.2	2989.4	2915.7	2857.6	2802.9	2796.2	2751.5	2694.6	2605.2
20°	3045.2	3063.1	3015.1	2940.3	2886.6	2844.2	2840.9	2808.5	2769.4	2687.9
22.5°	3072.0	3088.8	3026.2	2948.1	2901.2	2874.4	2873.2	2852.0	2836.4	2769.4
25°	3180.3	3184.8	3101.1	2988.3	2921.3	2897.8	2896.7	2895.6	2902.3	2849.8
27.5°	3274.1	3273.0	3201.6	3095.5	2991.6	2942.5	2941.4	2952.5	2973.8	2930.2
30°	3411.5	3399.2	3314.3	3203.8	3108.9	3032.9	3026.2	3016.2	3032.9	2998.3
32.5°	3703.0	3663.9	3526.5	3330.0	3206.0	3148.0	3139.0	3076.5	3083.2	3062.0
35°	4120.6	4069.2	3886.1	3568.9	3326.6	3244.0	3239.5	3160.2	3146.8	3127.9
37.5°	4617.5	4553.9	4340.6	3915.1	3534.3	3355.7	3349.0	3277.5	3222.8	3202.7
40°	5116.7	5036.3	4859.8	4337.2	3840.3	3542.1	3520.9	3412.6	3350.1	3316.6
42.5°	5601.3	5534.3	5383.6	4810.7	4217.7	3814.6	3767.7	3582.3	3535.4	3504.2
45°	6030.1	5969.8	5859.3	5316.6	4660.0	4185.4	4139.6	3837.0	3822.4	3822.4
47.5°	6378.5	6365.1	6247.9	5832.5	5181.5	4607.5	4528.2	4190.9	4230.0	4290.3
50°	6764.9	6728.1	6603.0	6340.6	5794.5	5091.0	5026.2	4625.3	4771.6	4936.9
52.5°	7120.0	7140.1	7000.5	6869.9	6486.9	5630.4	5516.5	5137.9	5453.9	5727.5
55°	7485.2	7486.3	7447.2	7429.4	7212.7	6226.7	6101.6	5754.3	6256.8	6596.3
57.5°	7828.0	7830.2	7888.3	8045.8	8054.7	6914.6	6772.7	6511.4	7149.1	7495.2
60°	8134.0	8149.6	8308.2	8676.7	8795.1	7702.9	7568.9	7405.9	8071.5	8419.9
62.5°	8236.7	8293.7	8646.5	9170.3	9526.5	8670.0	8538.2	8441.1	9040.7	9364.6
65°	8062.5	8193.2	8875.5	9577.9	10279.2	9819.1	9688.4	9582.3	10048.0	10352.9
67.5°	7634.8	7803.4	8862.1	10005.6	11192.6	11201.5	11079.8	10830.8	11127.8	11245.1
70°	6508.1	6760.5	8081.5	10165.2	12241.2	13092.1	12974.8	12333.9	12205.4	11638.2
72.5°	4193.2	4532.7	5950.9	8850.9	12474.6	14871.0	14864.3	13690.6	12546.0	10874.3
75°	1529.9	1737.6	2764.9	5555.5	10471.2	14780.5	14824.1	13458.4	11452.8	8399.8
77.5°	557.2	609.7	902.3	2135.1	6440.0	11859.3	11949.7	10759.3	8151.9	4215.5
80°	292.6	321.6	462.3	828.6	2759.3	7043.0	7184.8	6394.2	3831.4	1269.7
82.5°	161.9	175.3	259.1	450.0	1242.9	3011.7	3096.6	2526.0	1347.8	538.2
85°	87.1	92.7	121.7	245.7	607.5	1044.1	1067.6	754.9	537.1	316.0
87.5°	25.7	31.3	40.2	78.2	237.9	234.5	240.1	149.6	212.2	159.7
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°
2138.5	0°	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5	2138.5
2155.2	2.5°	2148.5	2145.2	2132.9	2127.3	2120.6	2119.5	2125.1	2126.2	2127.3	2128.4
2179.8	5°	2168.6	2157.4	2146.3	2139.6	2141.8	2142.9	2154.1	2161.9	2167.5	2172.0
2225.6	7.5°	2207.7	2198.8	2179.8	2178.7	2182.0	2192.1	2206.6	2224.5	2234.5	2242.3
2284.8	10°	2265.8	2249.0	2226.7	2230.0	2236.7	2251.3	2281.4	2295.9	2312.7	2327.2
2357.3	12.5°	2325.0	2310.4	2284.8	2287.0	2298.2	2323.8	2352.9	2370.7	2381.9	2393.1
2435.5	15°	2402.0	2376.3	2348.4	2348.4	2368.5	2396.4	2409.8	2424.3	2431.0	2443.3
2519.3	17.5°	2481.3	2447.8	2410.9	2408.7	2433.3	2446.7	2454.5	2456.7	2459.0	2472.4
2600.8	20°	2560.6	2523.7	2471.2	2466.8	2472.4	2470.1	2469.0	2466.8	2470.1	2486.9
2684.5	22.5°	2638.7	2596.3	2523.7	2503.6	2488.0	2466.8	2465.7	2464.5	2466.8	2483.5
2775.0	25°	2730.3	2678.9	2581.8	2521.5	2469.0	2440.0	2443.3	2444.4	2446.7	2460.1
2868.8	27.5°	2829.7	2772.7	2635.4	2515.9	2421.0	2400.9	2395.3	2398.7	2406.5	2427.7
2962.6	30°	2929.1	2862.1	2684.5	2493.6	2360.7	2332.8	2314.9	2322.7	2347.3	2368.5
3044.1	32.5°	3019.5	2952.5	2723.6	2444.4	2283.6	2240.1	2216.6	2226.7	2251.3	2259.1
3134.6	35°	3125.6	3049.7	2740.4	2366.3	2199.9	2132.9	2101.6	2087.1	2099.4	2091.6
3240.6	37.5°	3244.0	3164.7	2738.1	2263.5	2101.6	2024.6	1981.0	1926.3	1900.6	1873.8
3397.0	40°	3419.3	3305.4	2711.3	2139.6	1979.9	1909.5	1831.4	1738.7	1680.6	1628.1
3649.4	42.5°	3658.3	3500.8	2662.2	2003.3	1842.5	1776.7	1670.6	1562.3	1470.7	1383.6
4032.4	45°	4014.5	3756.6	2600.8	1858.2	1694.0	1629.3	1514.2	1392.5	1288.7	1177.0
4576.2	47.5°	4528.2	4100.5	2542.7	1692.9	1537.7	1478.5	1374.6	1261.9	1139.0	1030.7
5362.4	50°	5233.9	4594.1	2489.1	1532.1	1383.6	1338.9	1256.3	1141.3	1017.3	930.2
6283.6	52.5°	6131.8	5265.2	2466.8	1376.9	1239.5	1222.8	1156.9	1049.7	932.4	858.7
7357.9	55°	7162.5	6068.1	2466.8	1228.4	1113.3	1118.9	1073.1	973.8	872.1	806.3
8465.6	57.5°	8214.4	6881.1	2422.1	1091.0	1006.1	1029.6	1000.6	913.5	821.9	753.8
9630.4	60°	9183.7	7562.2	2241.2	965.9	911.2	948.1	929.1	854.3	742.6	685.6
10604.1	62.5°	9928.5	7946.4	1892.8	866.6	833.1	875.5	865.4	776.1	728.1	704.6
11403.7	65°	10301.5	7883.8	1447.2	778.3	767.2	833.1	811.8	808.5	770.5	743.7
11663.9	67.5°	10072.6	7345.6	1049.7	713.6	729.2	794.0	875.5	888.9	818.5	766.1
10931.3	70°	9068.7	6371.8	781.7	652.1	681.2	795.1	998.3	930.2	802.9	741.5
8767.2	72.5°	6898.9	4751.5	606.4	587.4	618.6	800.7	1053.0	911.2	758.2	819.7
5461.7	75°	3945.3	2608.6	486.9	508.1	540.5	748.2	1025.1	862.1	723.6	752.7
2164.1	77.5°	1504.2	1002.8	402.0	429.9	434.4	653.3	980.5	858.7	689.0	672.2
648.8	80°	521.5	392.0	332.8	341.7	336.1	580.7	940.3	747.1	563.9	504.7
268.0	82.5°	213.3	195.4	263.5	252.4	239.0	451.1	759.4	610.8	461.2	407.6
129.5	85°	92.7	124.0	174.2	153.0	138.5	312.7	608.6	517.0	389.7	336.1
42.4	87.5°	19.0	46.9	73.7	69.2	71.5	208.8	432.2	367.4	275.8	206.6
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>
2138.5
2132.9
2174.2
2244.6
2323.8
2397.5
2447.8
2476.8
2493.6
2494.7
2477.9
2448.9
2392.0
2287.0
2116.1
1890.6
1631.5
1375.8
1163.6
1018.4
924.6
853.2
799.6
742.6
676.7
696.8
734.8
757.1
731.4
<i>813.0</i>
752.7
613.1
488.0
403.1
335.0
161.9
0.0

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