

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: P946705

Luminaire Tested: **GALN-SB2B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11842 lumens
Efficiency: N/A
Efficacy: 160.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

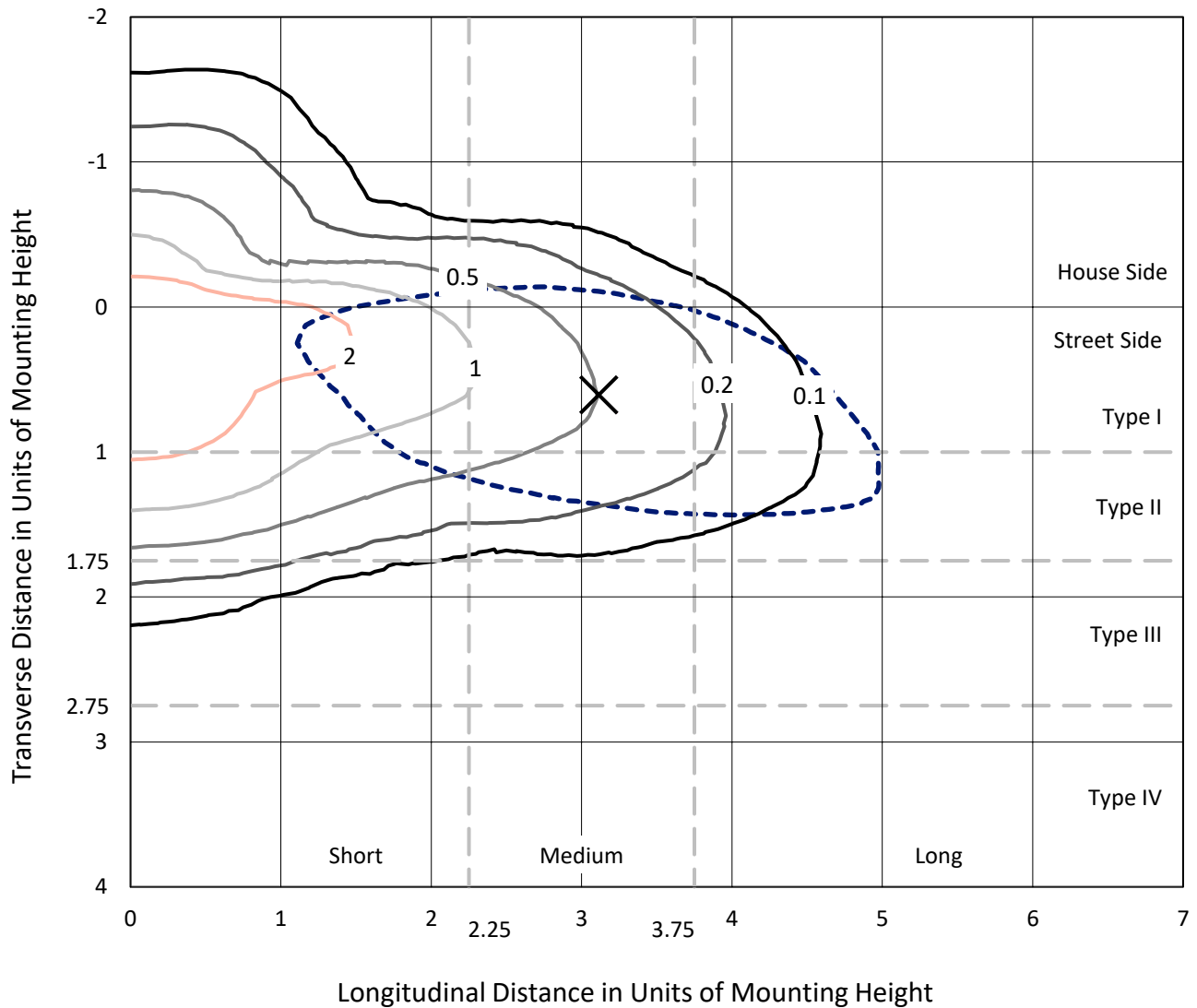
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

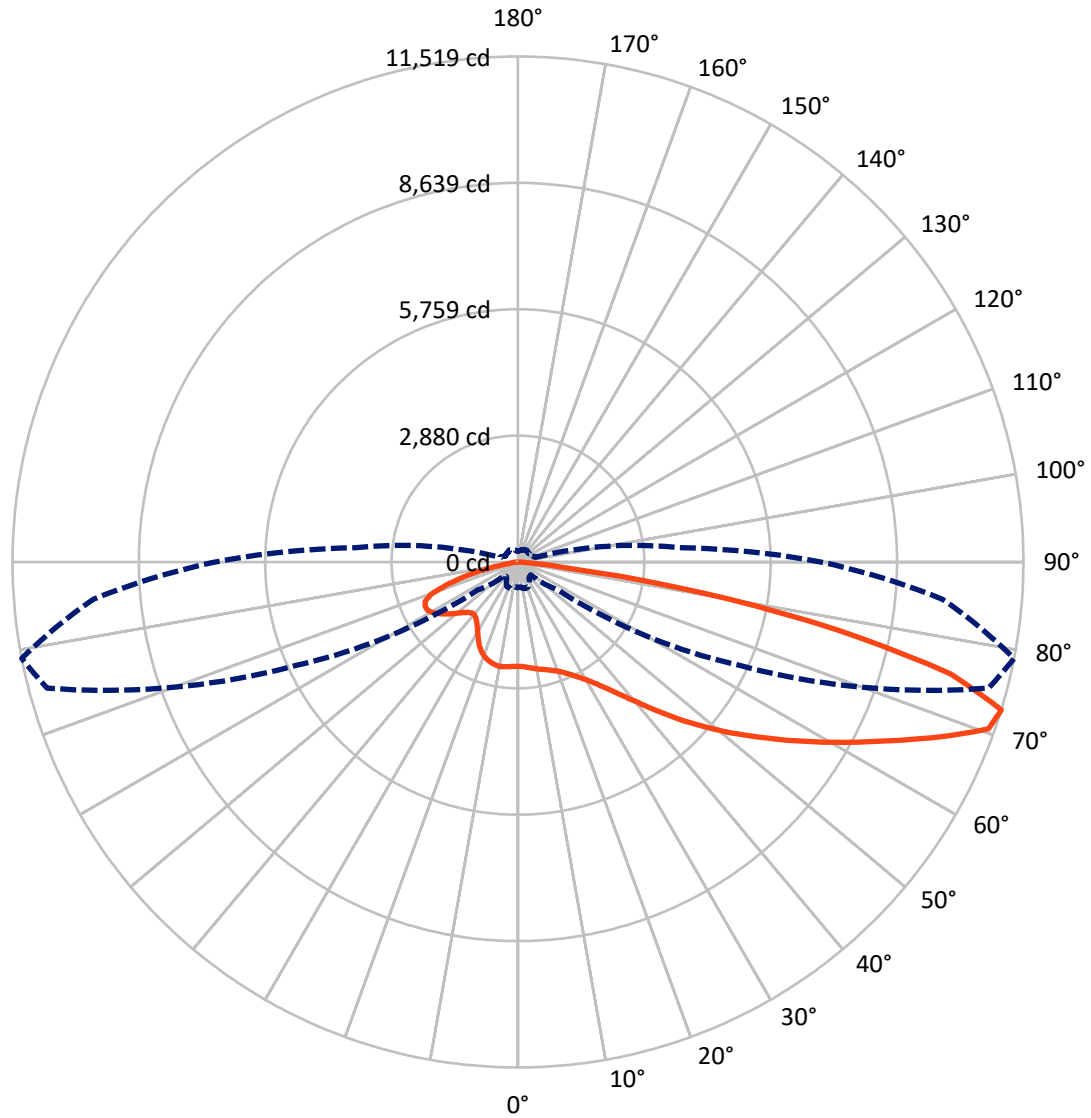
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.9	0.0	2605.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9236.1	0.0	9236.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	11842.0	0.0	11842.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.8
10°-20°	564.2	4.8
20°-30°	910.3	7.7
30°-40°	1366.3	11.5
40°-50°	1938.1	16.4
50°-60°	2447.6	20.7
60°-70°	2485.8	21.0
70°-80°	1694.2	14.3
80°-90°	219.8	1.9
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°	11842.0	100.0
0°-180°	11842.0	100.0



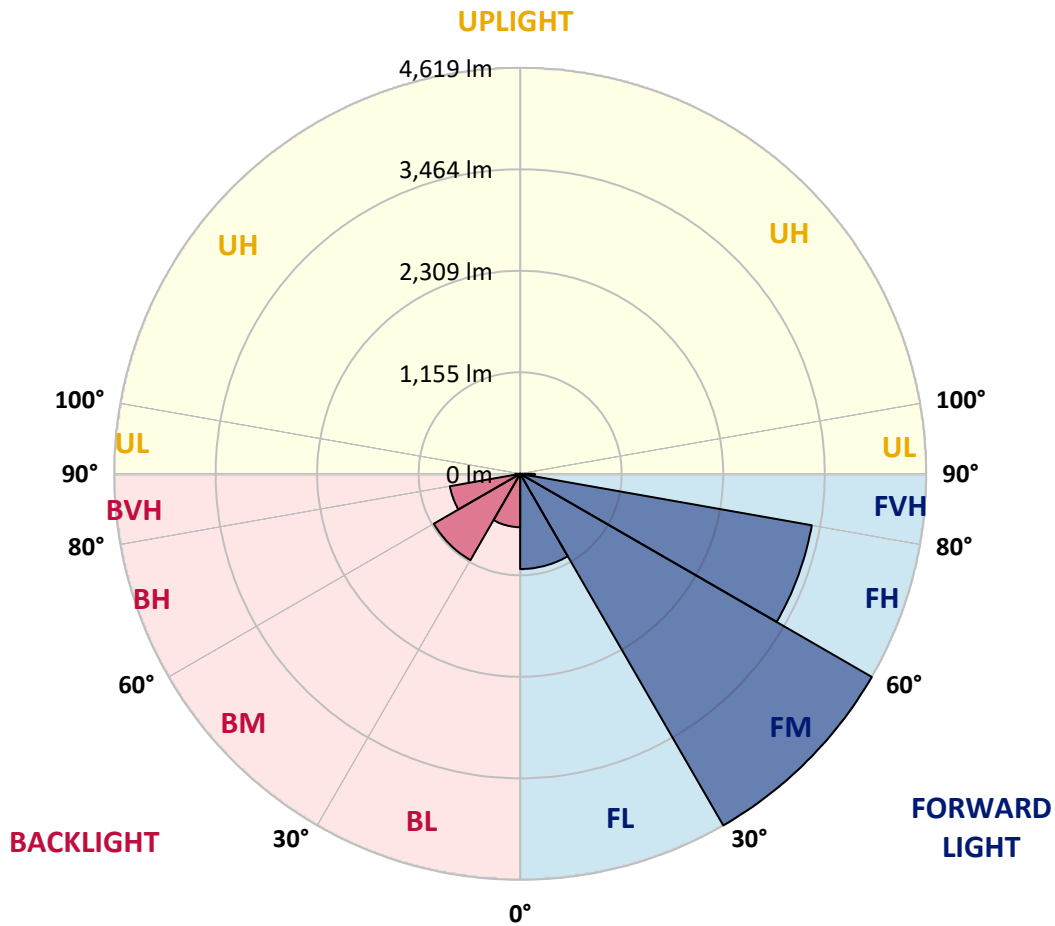
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.3	9.1			
FM (30°-60°)	4618.6	39.0			
FH (60°-80°)	3368.6	28.4			G2/5000
FVH (80°-90°)	165.6	1.4			G2/225
BL (0°-30°)	607.0	5.1	B2/1000		
BM (30°-60°)	1133.3	9.6	B2/2500		
BH (60°-80°)	811.4	6.9	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2
2.5°	2378.4	2367.1	2374.0	2371.5	2374.7	2378.4	2379.7	2381.6	2387.8	2387.2
5°	2373.4	2362.1	2371.5	2368.4	2376.5	2385.3	2392.8	2399.7	2409.7	2414.1
7.5°	2362.8	2355.2	2364.6	2374.0	2389.1	2402.2	2412.9	2428.5	2442.9	2445.4
10°	2300.7	2295.1	2317.0	2341.5	2382.8	2418.5	2441.7	2459.9	2475.5	2478.0
12.5°	2236.2	2229.3	2253.8	2287.0	2354.0	2418.5	2467.4	2491.2	2505.0	2513.1
15°	2225.6	2219.9	2233.7	2262.5	2318.3	2401.6	2484.9	2528.8	2540.7	2550.1
17.5°	2276.9	2266.3	2271.9	2282.0	2314.5	2385.9	2498.7	2571.4	2589.5	2599.5
20°	2396.0	2380.9	2372.2	2352.1	2346.5	2388.4	2497.4	2622.7	2646.5	2659.0
22.5°	2554.4	2544.4	2525.6	2474.9	2419.8	2419.1	2521.2	2688.5	2733.0	2744.9
25°	2746.1	2731.1	2707.3	2638.4	2532.5	2479.9	2561.3	2772.4	2847.0	2850.1
27.5°	2966.6	2944.1	2911.5	2820.7	2677.8	2575.1	2622.7	2868.9	2977.9	2976.6
30°	3199.0	3176.4	3142.0	3031.8	2852.0	2703.5	2707.9	2972.9	3133.2	3126.3
32.5°	3368.8	3351.8	3344.9	3259.8	3052.4	2855.1	2805.6	3088.1	3324.9	3318.6
35°	3499.0	3477.1	3485.3	3442.0	3271.0	3024.9	2925.3	3225.3	3557.9	3557.3
37.5°	3628.1	3608.7	3615.6	3586.7	3473.4	3240.3	3071.2	3393.2	3846.7	3860.5
40°	3745.8	3725.2	3752.7	3725.8	3630.6	3469.6	3237.2	3583.0	4181.2	4207.5
42.5°	3816.6	3800.3	3846.1	3846.7	3767.1	3663.2	3419.5	3792.2	4568.3	4627.2
45°	3841.1	3835.4	3904.3	3918.7	3888.0	3775.3	3583.6	4020.2	4985.5	5090.7
47.5°	3814.7	3804.1	3899.3	3952.6	3977.0	3827.9	3719.5	4267.0	5411.4	5565.5
50°	3681.9	3661.3	3802.8	3915.0	4002.0	3862.4	3856.7	4552.0	5895.6	6064.1
52.5°	3443.3	3427.6	3588.6	3783.4	3946.9	3879.3	4010.8	4863.3	6355.4	6573.4
55°	3138.2	3117.6	3294.8	3549.2	3809.7	3873.6	4164.9	5211.6	6897.9	7119.0
57.5°	2654.7	2613.3	2837.6	3138.2	3586.1	3866.7	4325.3	5558.0	7449.1	7714.1
60°	1949.3	1888.0	2162.9	2519.4	3148.9	3799.7	4523.8	5946.4	8110.6	8349.2
62.5°	1135.0	1099.3	1279.1	1611.7	2373.4	3405.1	4635.3	6398.0	8760.8	9011.3
65°	881.3	871.3	887.0	912.7	1321.1	2549.4	4291.4	6838.4	9587.6	9763.0
67.5°	806.2	798.7	805.5	757.3	670.2	1420.0	3395.1	6949.9	10473.3	10579.8
70°	716.6	707.8	730.4	689.0	527.4	645.8	2193.6	6545.2	11178.0	11377.8
72.5°	583.8	573.8	626.4	607.6	444.1	414.7	1101.8	5583.7	11104.1	11518.8
75°	448.5	442.9	505.5	521.2	362.1	326.4	528.7	4150.5	9771.8	10189.6
77.5°	348.3	343.9	375.8	432.8	291.9	253.1	325.1	2632.7	7363.9	7437.2
80°	261.2	248.7	278.1	335.1	227.4	184.8	220.5	1535.3	4654.7	4219.4
82.5°	163.5	157.2	181.7	223.6	160.4	127.2	143.4	848.1	1865.4	1098.7
85°	93.3	90.8	99.0	127.8	87.1	73.3	82.1	374.6	340.8	234.3
87.5°	37.6	36.3	45.1	57.0	31.9	26.9	28.8	90.2	75.2	69.5
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°
2377.2	0°	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2	2377.2
2386.6	2.5°	2384.1	2384.1	2375.3	2361.5	2345.8	2335.8	2319.5	2315.2	2298.2	2293.2
2407.9	5°	2412.9	2407.9	2380.9	2342.1	2288.8	2240.0	2186.1	2152.3	2104.7	2087.8
2449.8	7.5°	2449.2	2435.4	2389.1	2303.9	2192.4	2082.8	1968.8	1882.3	1799.6	1770.2
2484.3	10°	2482.4	2463.0	2384.1	2235.0	2042.0	1852.2	1670.6	1543.4	1447.0	1407.5
2522.5	12.5°	2515.6	2479.9	2350.9	2120.3	1828.4	1571.0	1377.4	1278.5	1219.0	1171.4
2553.8	15°	2546.9	2496.8	2299.5	1966.9	1594.2	1333.0	1190.2	1111.2	1063.6	1032.3
2599.5	17.5°	2583.3	2511.2	2222.4	1772.1	1371.2	1168.2	1051.7	1004.1	994.7	991.0
2662.2	20°	2634.0	2524.4	2121.0	1554.1	1207.1	1036.7	976.5	972.2	971.5	969.7
2737.3	22.5°	2688.5	2540.0	1986.9	1356.1	1067.4	954.6	944.0	935.2	929.6	928.9
2828.2	25°	2753.0	2545.0	1819.1	1193.9	948.4	915.8	903.3	890.1	886.3	886.3
2931.5	27.5°	2815.6	2528.1	1623.6	1053.0	881.3	880.1	863.8	859.4	858.8	860.7
3049.3	30°	2878.3	2496.2	1429.4	922.7	842.5	842.5	836.9	840.0	842.5	848.8
3210.9	32.5°	2962.8	2462.4	1267.2	826.2	808.7	802.4	808.0	814.3	816.8	825.0
3423.2	35°	3086.9	2438.6	1138.2	773.6	773.6	765.5	768.6	767.3	761.7	757.9
3680.1	37.5°	3251.0	2437.3	1031.7	749.2	744.2	742.9	743.5	735.4	713.5	687.2
3990.8	40°	3448.3	2471.1	949.6	732.3	728.5	736.0	732.3	710.3	650.2	604.5
4372.9	42.5°	3713.3	2567.6	897.0	711.6	722.9	732.3	717.2	641.4	600.7	570.0
4808.2	45°	4025.2	2724.2	870.1	689.7	712.2	723.5	650.8	617.6	585.1	548.1
5283.0	47.5°	4378.5	2921.5	863.8	669.0	688.4	695.3	622.6	607.6	570.6	530.6
5760.3	50°	4763.1	3155.2	880.7	644.6	654.0	630.2	613.2	599.5	561.2	521.8
6249.5	52.5°	5160.9	3412.6	914.5	611.4	619.5	593.2	609.5	597.6	555.6	502.4
6755.0	55°	5551.7	3671.9	947.1	572.5	584.4	560.0	598.8	590.1	529.9	469.8
7294.4	57.5°	5948.9	3930.0	979.1	538.1	550.6	528.1	581.9	570.0	501.1	439.7
7883.2	60°	6361.7	4180.6	994.1	504.9	513.6	498.6	556.2	535.6	468.5	409.0
8462.0	62.5°	6748.2	4389.1	969.7	471.7	477.3	471.0	522.4	494.9	436.0	374.6
9065.2	65°	7135.9	4513.2	894.5	439.1	440.4	437.2	474.8	451.0	397.8	344.5
9593.2	67.5°	7487.3	4582.7	774.9	404.0	400.9	399.6	430.3	403.4	360.8	314.5
9994.8	70°	7561.8	4406.1	591.9	362.7	362.7	359.6	381.5	353.9	320.1	282.5
9707.2	72.5°	6906.6	3706.4	420.3	315.7	320.7	314.5	332.6	309.4	278.7	253.7
8366.1	75°	5569.3	2717.9	305.7	267.5	276.2	265.6	282.5	266.2	239.9	239.3
5765.3	77.5°	3826.6	1680.6	221.7	220.5	226.8	213.0	232.4	223.6	199.8	189.2
2509.3	80°	1633.0	670.2	161.6	170.4	170.4	157.9	180.4	182.9	162.2	157.2
484.2	82.5°	325.1	190.4	113.4	117.1	110.2	106.5	127.8	141.6	195.4	217.4
146.0	85°	97.7	70.2	68.3	63.9	56.4	57.0	75.2	142.2	175.4	100.2
48.2	87.5°	26.9	17.5	18.2	14.4	11.9	15.7	25.7	107.7	58.9	25.1
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>
2377.2
2301.4
2100.3
1774.0
1416.3
1187.0
1037.9
993.5
975.9
935.8
890.1
865.7
853.1
831.9
766.7
687.8
603.2
568.8
545.6
527.4
517.4
498.6
466.7
438.5
407.2
374.0
340.8
310.7
281.3
246.2
215.5
177.3
157.2
218.0
86.4
21.3
0.0

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