

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: P957289

Luminaire Tested: **GALN-SB9C-940-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957289  
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-SB9C-940-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

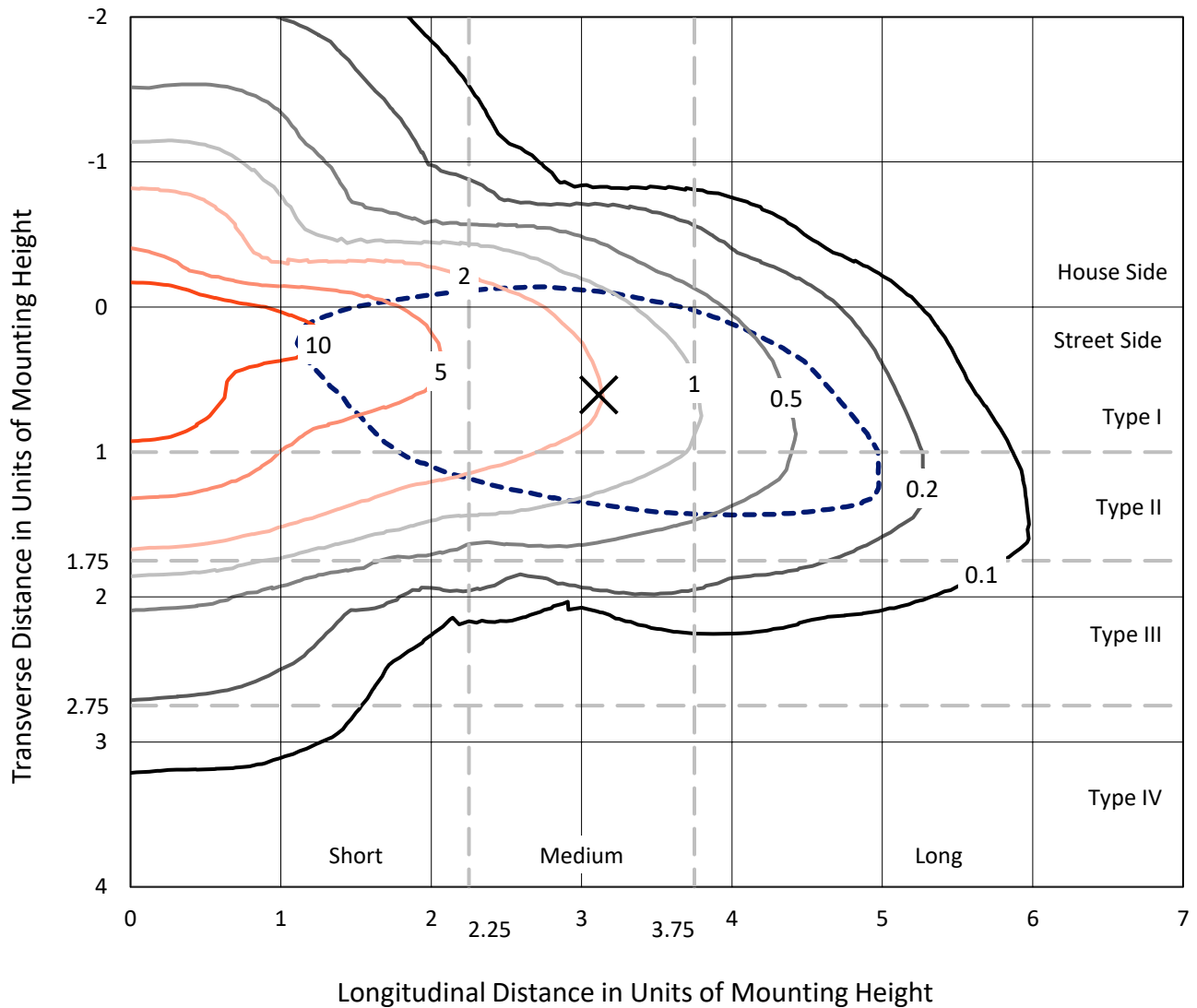
Lumens per Lamp: N/A  
Luminaire Lumens: 49131 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

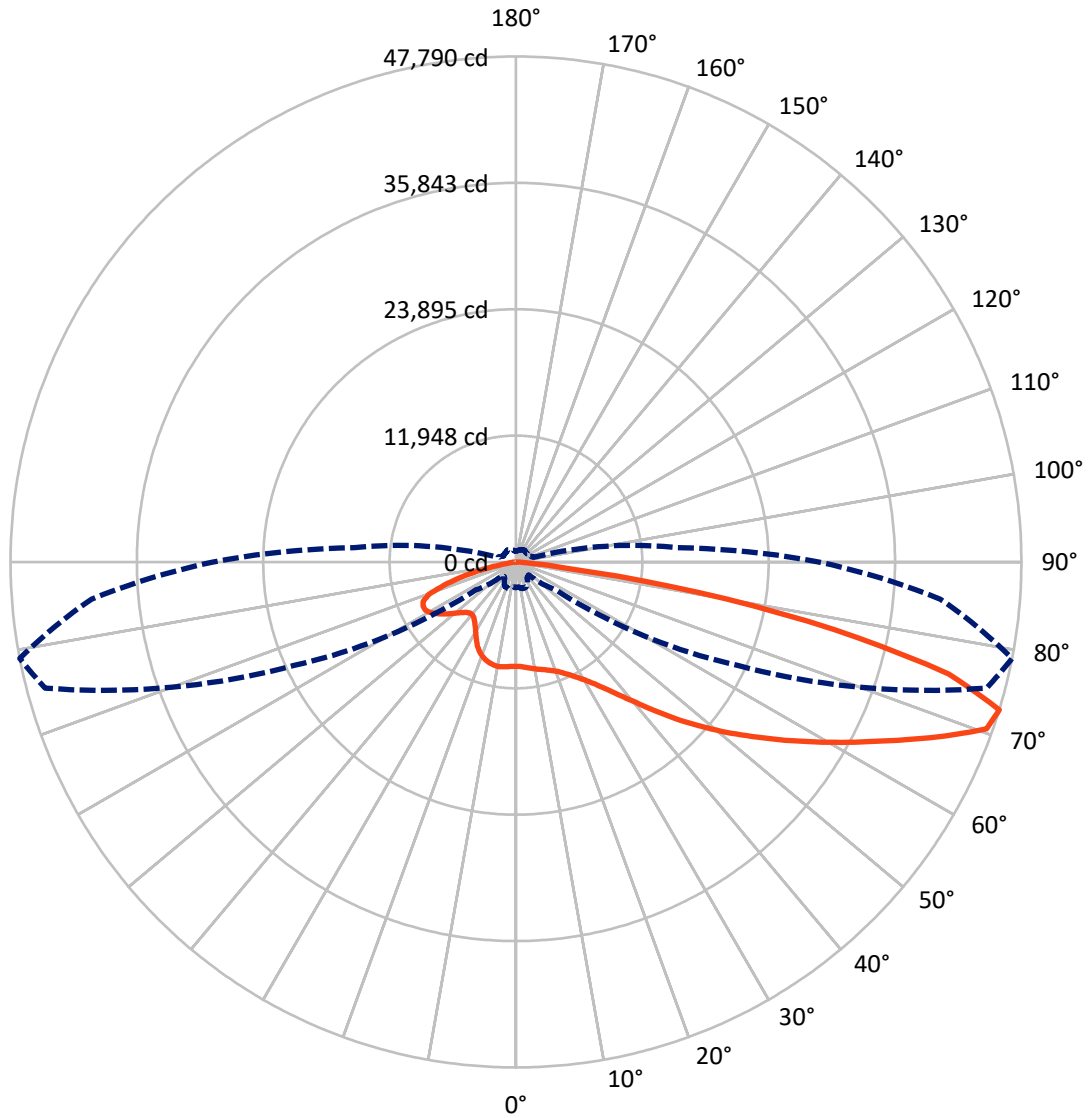
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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
<b>House Side</b>	Lumens	10811.5	0.0	10811.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	38319.5	0.0	38319.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	49131.0	0.0	49131.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	895.2	1.8
10°-20°	2340.6	4.8
20°-30°	3776.8	7.7
30°-40°	5668.4	11.5
40°-50°	8040.9	16.4
50°-60°	10154.6	20.7
60°-70°	10313.4	21.0
70°-80°	7029.0	14.3
80°-90°	912.0	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°	49131.0	100.0
0°-180°	49131.0	100.0



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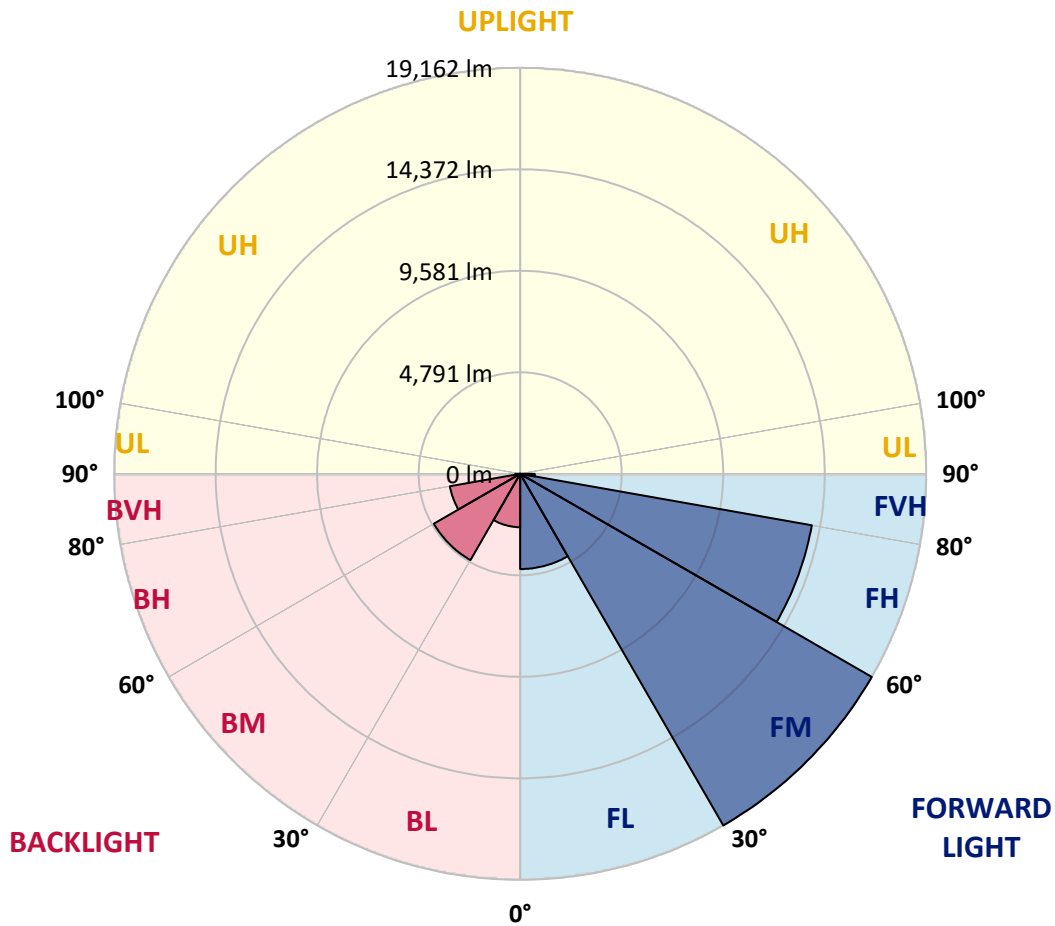
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4494.3	9.1			
FM (30°-60°)	19162.1	39.0			
FH (60°-80°)	13976.1	28.4			G5
FVH (80°-90°)	687.0	1.4			G4/750
BL (0°-30°)	2518.3	5.1	B4/5000		
BM (30°-60°)	4701.9	9.6	B3/5000		
BH (60°-80°)	3366.4	6.9	B4/5000		G4/5000
BVH (80°-90°)	225.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6
2.5°	9867.8	9821.0	9849.6	9839.2	9852.2	9867.8	9873.0	9880.8	9906.8	9904.2
5°	9847.0	9800.2	9839.2	9826.2	9860.0	9896.4	9927.6	9956.1	9997.7	10015.9
7.5°	9802.8	9771.6	9810.6	9849.6	9912.0	9966.5	10010.7	10075.7	10135.5	10145.9
10°	9545.5	9522.1	9613.1	9714.4	9886.0	10034.1	10130.3	10205.6	10270.6	10281.0
12.5°	9277.8	9249.3	9350.6	9488.3	9766.4	10034.1	10236.8	10335.6	10392.7	10426.5
15°	9233.7	9210.3	9267.4	9387.0	9618.3	9963.9	10309.6	10491.5	10540.9	10579.9
17.5°	9446.8	9402.6	9426.0	9467.6	9602.7	9899.0	10366.8	10668.2	10743.6	10785.2
20°	9940.5	9878.2	9841.8	9758.6	9735.2	9909.4	10361.6	10881.3	10980.1	11032.1
22.5°	10598.1	10556.5	10478.5	10268.0	10039.3	10036.7	10460.3	11154.2	11338.7	11388.1
25°	11393.3	11330.9	11232.2	10946.3	10507.1	10288.8	10626.6	11502.4	11811.7	11824.7
27.5°	12308.1	12214.5	12079.4	11702.6	11110.0	10683.8	10881.3	11902.7	12354.9	12349.7
30°	13272.3	13178.7	13035.8	12578.4	11832.5	11216.6	11234.8	12334.1	12999.4	12970.8
32.5°	13976.5	13906.4	13877.8	13524.3	12664.1	11845.5	11640.2	12812.3	13794.6	13768.6
35°	14517.1	14426.1	14459.9	14280.6	13571.1	12549.8	12136.6	13381.4	14761.4	14758.8
37.5°	15052.5	14971.9	15000.5	14880.9	14410.5	13443.8	12742.1	14077.9	15959.4	16016.6
40°	15541.0	15455.3	15569.6	15457.9	15062.9	14395.0	13430.8	14865.3	17347.2	17456.4
42.5°	15834.7	15767.1	15956.9	15959.4	15629.4	15198.0	14187.0	15733.4	18953.3	19197.6
45°	15936.1	15912.7	16198.5	16258.3	16131.0	15663.2	14867.9	16679.3	20684.1	21120.7
47.5°	15826.9	15782.7	16177.8	16398.7	16500.0	15881.5	15431.9	17703.3	22451.3	23090.7
50°	15276.0	15190.2	15777.5	16242.7	16604.0	16024.4	16001.0	18885.7	24460.2	25159.3
52.5°	14285.8	14220.8	14888.7	15697.0	16375.3	16094.6	16640.3	20177.4	26367.8	27272.2
55°	13020.2	12934.4	13669.9	14725.0	15806.1	16071.2	17279.7	21622.3	28618.4	29535.8
57.5°	11013.9	10842.3	11772.7	13020.2	14878.3	16042.6	17945.0	23059.5	30905.4	32004.7
60°	8087.6	7832.9	8973.8	10452.5	13064.3	15764.5	18768.8	24670.7	33649.7	34639.9
62.5°	4709.1	4561.0	5306.8	6686.8	9847.0	14127.3	19231.4	26544.5	36347.3	37386.8
65°	3656.6	3615.0	3680.0	3786.5	5480.9	10577.3	17804.6	28371.5	39777.8	40505.5
67.5°	3344.7	3313.5	3342.1	3142.0	2780.8	5891.6	14085.7	28834.1	43452.5	43894.3
70°	2973.1	2936.7	3030.2	2858.7	2188.2	2679.4	9101.1	27155.2	46376.2	47205.2
72.5°	2422.1	2380.5	2598.8	2520.9	1842.6	1720.4	4571.4	23166.0	46069.6	47790.0
75°	1860.8	1837.4	2097.3	2162.2	1502.1	1354.0	2193.4	17219.9	40541.8	42275.3
77.5°	1445.0	1426.8	1559.3	1795.8	1211.1	1049.9	1348.8	10922.9	30551.9	30856.0
80°	1083.7	1031.7	1153.9	1390.4	943.4	766.7	914.8	6369.7	19311.9	17505.8
82.5°	678.3	652.3	753.7	927.8	665.3	527.6	595.1	3518.8	7739.3	4558.4
85°	387.2	376.8	410.6	530.2	361.2	304.1	340.4	1554.1	1413.8	972.0
87.5°	155.9	150.7	187.1	236.5	132.5	111.7	119.5	374.2	311.9	288.5
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°
9862.6	0°	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6	9862.6
9901.6	2.5°	9891.2	9891.2	9854.8	9797.6	9732.6	9691.1	9623.5	9605.3	9535.1	9514.3
9989.9	5°	10010.7	9989.9	9878.2	9717.0	9496.1	9293.4	9069.9	8929.6	8732.1	8661.9
10164.0	7.5°	10161.4	10104.3	9912.0	9558.5	9095.9	8641.1	8168.1	7809.5	7466.5	7344.3
10307.0	10°	10299.2	10218.6	9891.2	9272.6	8472.2	7684.8	6931.1	6403.5	6003.3	5839.6
10465.5	12.5°	10436.9	10288.8	9753.4	8797.1	7586.0	6517.9	5714.8	5304.2	5057.3	4859.8
10595.5	15°	10566.9	10359.0	9540.3	8160.3	6614.0	5530.3	4937.8	4610.3	4412.8	4282.9
10785.2	17.5°	10717.6	10418.7	9220.7	7352.1	5688.9	4846.8	4363.4	4165.9	4127.0	4111.4
11045.1	20°	10928.1	10473.3	8799.7	6447.7	5008.0	4301.1	4051.6	4033.4	4030.8	4023.0
11356.9	22.5°	11154.2	10538.3	8243.5	5626.5	4428.4	3960.6	3916.4	3880.1	3856.7	3854.1
11733.7	25°	11421.9	10559.1	7547.0	4953.4	3934.6	3799.5	3747.5	3692.9	3677.4	3677.4
12162.6	27.5°	11681.8	10488.9	6736.2	4368.6	3656.6	3651.4	3583.8	3565.6	3563.0	3570.8
12651.1	30°	11941.6	10356.4	5930.5	3828.1	3495.4	3495.4	3472.0	3485.0	3495.4	3521.4
13321.6	32.5°	12292.5	10216.0	5257.4	3427.9	3355.1	3329.1	3352.5	3378.5	3388.9	3422.7
14202.6	35°	12807.1	10117.3	4722.1	3209.6	3209.6	3175.8	3188.8	3183.6	3160.2	3144.6
15268.2	37.5°	13488.0	10112.1	4280.3	3108.2	3087.4	3082.2	3084.8	3051.0	2960.1	2850.9
16557.2	40°	14306.6	10252.4	3939.8	3038.0	3022.4	3053.6	3038.0	2947.1	2697.6	2507.9
18142.5	42.5°	15405.9	10652.6	3721.5	2952.3	2999.1	3038.0	2975.7	2661.2	2492.3	2364.9
19948.7	45°	16700.1	11302.3	3609.8	2861.3	2954.9	3001.7	2700.2	2562.5	2427.3	2274.0
21918.6	47.5°	18165.9	12121.0	3583.8	2775.6	2856.1	2884.7	2583.2	2520.9	2367.5	2201.2
23898.9	50°	19761.5	13090.3	3654.0	2674.2	2713.2	2614.4	2544.3	2487.1	2328.6	2164.8
25928.6	52.5°	21411.8	14158.5	3794.3	2536.5	2570.2	2461.1	2528.7	2479.3	2305.2	2084.3
28025.8	55°	23033.5	15234.4	3929.4	2375.3	2424.7	2323.4	2484.5	2448.1	2198.6	1949.1
30263.4	57.5°	24681.1	16305.1	4062.0	2232.4	2284.4	2190.8	2414.3	2364.9	2079.1	1824.4
32706.3	60°	26393.8	17344.6	4124.4	2094.7	2131.0	2068.7	2307.8	2222.0	1943.9	1697.0
35107.7	62.5°	27997.3	18210.0	4023.0	1956.9	1980.3	1954.3	2167.4	2053.1	1808.8	1554.1
37610.3	65°	29605.9	18724.6	3711.1	1821.8	1827.0	1814.0	1969.9	1871.2	1650.3	1429.4
39801.2	67.5°	31063.9	19013.1	3214.8	1676.2	1663.3	1658.1	1785.4	1673.7	1496.9	1304.6
41467.0	70°	31373.1	18280.2	2455.9	1504.7	1504.7	1491.7	1582.7	1468.3	1328.0	1172.1
40274.2	72.5°	28654.8	15377.3	1743.8	1309.8	1330.6	1304.6	1380.0	1283.8	1156.5	1052.5
34710.0	75°	23106.2	11276.3	1268.2	1109.7	1146.1	1101.9	1172.1	1104.5	995.4	992.8
23919.7	77.5°	15876.3	6972.7	920.0	914.8	940.8	883.6	964.2	927.8	829.0	784.8
10410.9	80°	6775.2	2780.8	670.5	706.9	706.9	654.9	748.5	758.9	673.1	652.3
2008.9	82.5°	1348.8	790.0	470.4	486.0	457.4	441.8	530.2	587.3	810.8	901.8
605.5	85°	405.4	291.1	283.3	265.1	233.9	236.5	311.9	589.9	727.7	415.8
200.1	87.5°	111.7	72.8	75.4	59.8	49.4	65.0	106.6	447.0	244.3	104.0
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>
9862.6
9548.1
8713.9
7359.9
5876.0
4924.8
4306.3
4121.8
4049.0
3882.7
3692.9
3591.6
3539.6
3451.3
3181.0
2853.5
2502.7
2359.7
2263.6
2188.2
2146.6
2068.7
1936.1
1819.2
1689.2
1551.5
1413.8
1289.0
1166.9
<i>1021.3</i>
894.0
735.5
652.3
904.4
358.6
88.4
0.0

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