

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: P940014

Luminaire Tested: **GALN-SB2D-850-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-850-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14214 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

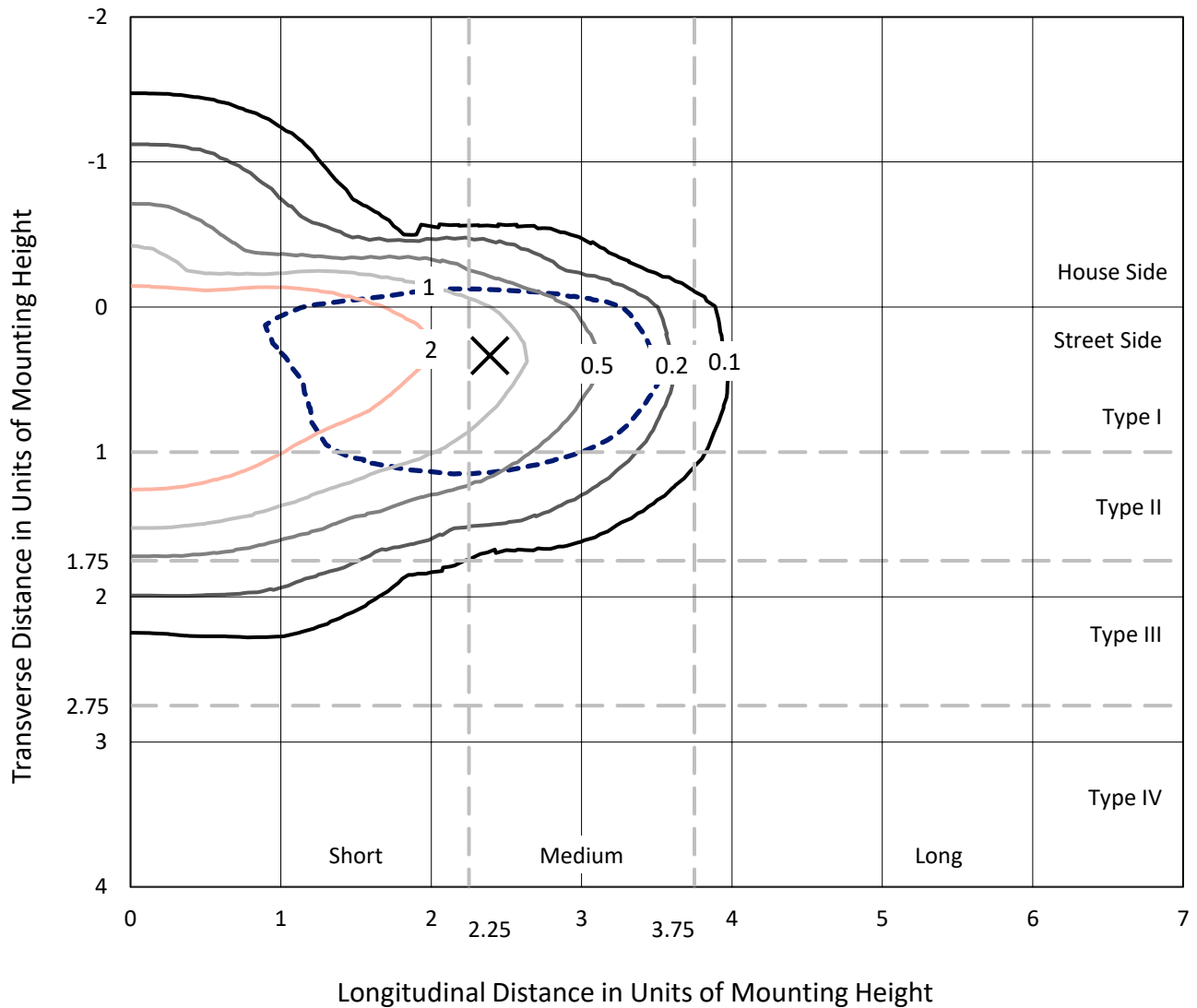
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

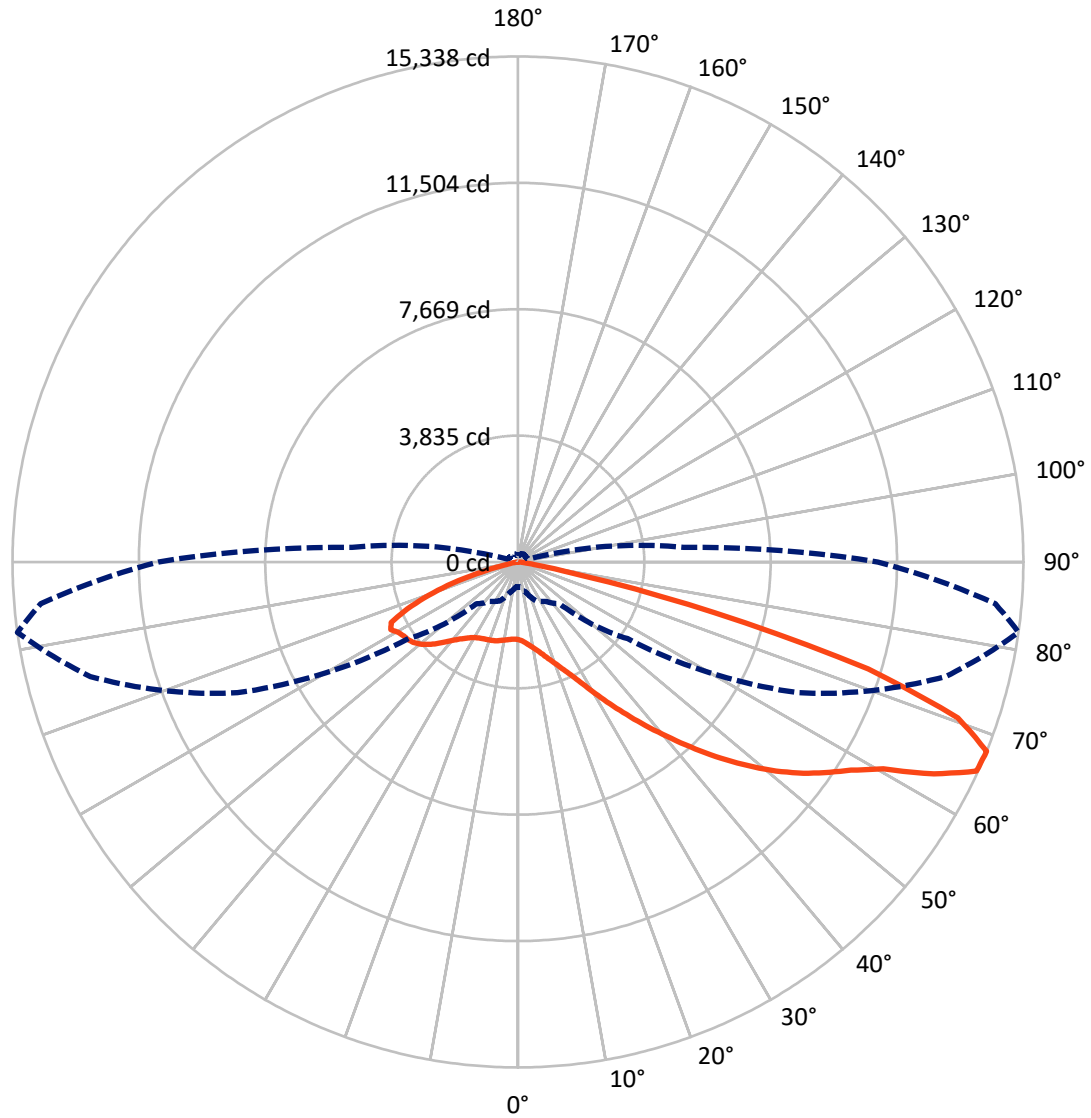
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2574.7	0.0	2574.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11639.3	0.0	11639.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	14214.0	0.0	14214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	1.5
10°-20°	545.2	3.8
20°-30°	873.2	6.1
30°-40°	1544.1	10.9
40°-50°	2705.3	19.0
50°-60°	3608.2	25.4
60°-70°	3359.0	23.6
70°-80°	1289.2	9.1
80°-90°	80.1	0.6
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°	14214.0	100.0
0°-180°	14214.0	100.0

Coefficient of Utilization



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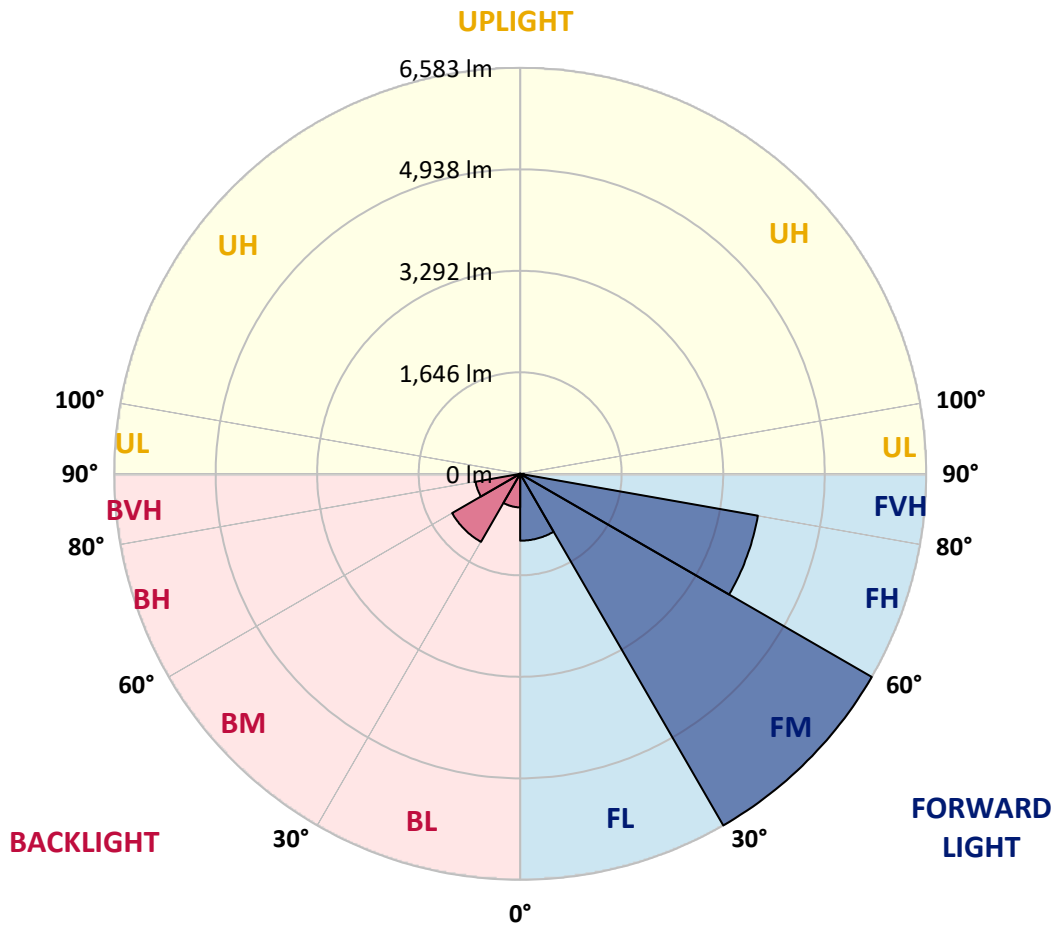
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1084.4	7.6			
FM (30°-60°)	6583.3	46.3			
FH (60°-80°)	3913.3	27.5			G2/5000
FVH (80°-90°)	58.2	0.4			G1/100
BL (0°-30°)	543.8	3.8	B2/1000		
BM (30°-60°)	1274.2	9.0	B2/2500		
BH (60°-80°)	734.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	21.9	0.2			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°	82°
0°	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8
2.5°	2488.8	2503.2	2495.0	2490.9	2483.7	2473.5	2465.3	2439.7	2413.1	2395.7
5°	2539.0	2553.3	2552.3	2556.4	2561.5	2564.6	2562.5	2533.9	2496.0	2466.3
7.5°	2496.0	2512.4	2525.7	2546.1	2582.0	2619.8	2638.3	2632.1	2593.2	2552.3
10°	2374.2	2391.6	2423.3	2471.4	2547.2	2629.0	2697.6	2729.3	2704.8	2659.7
12.5°	2151.1	2168.5	2231.0	2335.3	2462.2	2604.5	2735.5	2820.4	2826.6	2781.5
15°	1900.4	1917.8	1984.3	2115.3	2308.7	2536.9	2755.9	2916.6	2970.8	2932.0
17.5°	1744.8	1760.2	1810.3	1915.8	2117.4	2401.9	2748.8	3018.9	3142.8	3112.1
20°	1697.8	1711.1	1734.6	1808.3	1976.1	2261.7	2701.7	3115.1	3328.0	3310.6
22.5°	1747.9	1760.2	1767.4	1800.1	1905.5	2169.5	2642.3	3213.4	3542.9	3545.0
25°	1863.6	1875.8	1867.7	1888.1	1934.2	2140.9	2619.8	3329.0	3813.1	3835.6
27.5°	2053.9	2054.9	2035.5	2034.5	2041.6	2183.9	2643.4	3452.9	4153.9	4195.8
30°	2435.6	2420.3	2345.6	2264.7	2227.9	2312.8	2708.9	3599.2	4556.1	4630.8
32.5°	3024.1	3001.5	2864.4	2671.0	2476.6	2520.6	2826.6	3766.0	4994.1	5129.1
35°	3662.6	3656.5	3513.2	3225.7	2885.9	2816.3	3017.9	3985.0	5472.0	5686.9
37.5°	4256.2	4253.1	4171.3	3832.5	3419.1	3228.7	3324.9	4271.6	5983.7	6294.8
40°	4798.6	4807.8	4725.9	4423.0	4006.5	3757.8	3742.5	4625.6	6552.7	6956.9
42.5°	5267.3	5277.5	5194.6	4970.5	4586.8	4343.2	4255.2	5059.6	7108.3	7668.1
45°	5585.6	5649.0	5636.7	5457.6	5182.4	4929.6	4871.3	5604.0	7741.8	8422.4
47.5°	5675.6	5734.0	5826.1	5850.6	5682.8	5434.1	5503.7	6260.0	8382.4	9177.6
50°	5453.5	5507.8	5699.2	5954.0	6070.6	5993.9	6118.7	6963.0	9038.4	9930.8
52.5°	5015.5	5070.8	5312.3	5715.5	6191.4	6432.9	6735.8	7655.8	9673.9	10644.1
55°	4382.1	4440.4	4750.5	5206.9	5961.1	6614.1	7250.6	8347.6	10256.2	11285.7
57.5°	3520.4	3563.4	3885.7	4524.3	5381.9	6433.9	7630.3	9102.9	10804.8	11916.1
60°	2294.4	2332.3	2706.8	3419.1	4422.0	5832.2	7706.0	9945.1	11533.4	12735.9
62.5°	1525.8	1551.4	1773.5	2296.4	3114.1	4676.8	7262.9	10617.5	12601.8	14162.4
65°	1046.9	1072.5	1294.6	1658.9	2011.9	3093.7	5988.8	10528.5	13569.9	15295.3
67.5°	747.1	768.6	956.9	1300.7	1456.3	1797.0	4059.7	9390.5	13430.7	15338.3
70°	535.2	547.5	703.1	1013.1	1157.4	1079.7	2257.6	7182.0	11759.6	14163.5
72.5°	374.6	378.6	488.1	771.6	932.3	788.0	1074.5	4788.4	8894.1	11116.9
75°	253.8	258.9	328.5	565.9	748.1	601.7	569.0	2567.6	5221.2	6153.5
77.5°	155.6	157.6	211.8	386.8	559.8	458.5	366.4	1087.8	2020.1	1983.3
80°	88.0	88.0	135.1	240.5	381.7	295.8	256.9	462.6	639.6	561.8
82.5°	49.1	50.1	98.2	149.4	252.8	175.0	141.2	213.9	276.3	244.6
85°	20.5	22.5	60.4	70.6	120.8	87.0	57.3	90.1	102.3	91.1
87.5°	2.0	3.1	18.4	13.3	14.3	17.4	8.2	17.4	14.3	14.3
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°
2354.8	0°	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8	2354.8
2389.6	2.5°	2370.1	2354.8	2315.9	2270.9	2211.5	2182.9	2144.0	2117.4	2094.8	2096.9
2448.9	5°	2416.2	2377.3	2290.3	2181.8	2046.7	1950.5	1848.2	1777.6	1720.3	1708.0
2530.8	7.5°	2479.6	2418.2	2265.7	2070.3	1842.1	1669.1	1514.6	1415.3	1344.7	1322.2
2630.1	10°	2561.5	2472.5	2234.0	1930.1	1601.6	1381.6	1215.8	1138.0	1089.9	1073.5
2746.7	12.5°	2656.7	2534.9	2192.1	1759.2	1353.9	1142.1	1036.7	997.8	982.4	977.3
2890.0	15°	2776.4	2612.7	2128.6	1556.5	1144.1	995.7	950.7	945.6	947.6	945.6
3061.9	17.5°	2918.7	2697.6	2025.3	1347.8	1002.9	921.0	904.7	908.8	913.9	912.8
3254.3	20°	3074.2	2781.5	1893.2	1162.6	906.7	867.8	858.6	862.7	866.8	864.7
3476.4	22.5°	3251.3	2871.6	1746.9	1018.3	842.2	818.7	808.5	809.5	809.5	805.4
3757.8	25°	3463.1	2970.8	1593.4	915.9	793.1	774.7	762.4	758.3	752.2	739.9
4099.6	27.5°	3715.9	3076.3	1446.0	844.3	754.2	736.8	722.5	712.3	696.9	676.4
4510.0	30°	4000.4	3204.2	1321.2	799.3	723.5	706.1	689.8	674.4	651.9	626.3
4981.8	32.5°	4335.0	3341.3	1230.1	769.6	695.9	677.5	658.0	639.6	615.0	589.5
5511.9	35°	4734.1	3507.1	1176.9	749.1	674.4	649.8	628.4	607.9	589.5	566.9
6088.0	37.5°	5167.0	3683.1	1160.5	738.9	660.1	622.2	597.6	583.3	581.3	568.0
6711.3	40°	5640.8	3891.9	1172.8	732.7	644.7	595.6	569.0	565.9	571.0	547.5
7377.5	42.5°	6142.3	4139.5	1193.3	725.6	623.2	569.0	543.4	543.4	539.3	506.6
8081.6	45°	6684.7	4425.1	1213.7	708.2	597.6	542.4	522.9	515.8	498.4	466.7
8789.7	47.5°	7231.1	4715.7	1229.1	676.4	566.9	519.9	502.5	486.1	460.5	431.9
9484.6	50°	7750.0	4976.7	1212.7	629.4	532.2	498.4	480.0	457.4	429.8	410.4
10142.6	52.5°	8213.6	5202.8	1143.1	574.1	495.3	475.9	459.5	436.0	413.4	393.0
10736.2	55°	8616.8	5386.0	1020.3	521.9	462.6	456.4	440.0	410.4	379.7	362.3
11324.6	57.5°	9003.6	5525.2	866.8	478.9	432.9	434.9	410.4	383.8	355.1	336.7
12117.7	60°	9518.4	5711.4	711.2	439.0	401.2	407.3	380.7	361.3	325.4	301.9
13477.8	62.5°	10341.2	6001.1	564.9	389.9	364.3	366.4	355.1	331.6	288.6	261.0
14485.8	65°	10994.1	5894.6	445.2	336.7	322.4	325.4	325.4	299.8	253.8	222.1
14540.1	67.5°	10920.4	5047.3	355.1	284.5	282.5	284.5	291.7	270.2	225.1	199.6
13432.8	70°	10059.7	4014.7	284.5	236.4	245.6	240.5	261.0	246.6	202.6	177.0
10413.8	72.5°	8208.5	2892.0	217.0	195.5	188.3	196.5	235.4	222.1	168.9	140.2
5516.0	75°	4796.5	1543.2	161.7	154.5	136.1	163.7	208.8	189.3	128.9	103.4
1690.6	77.5°	1561.7	538.3	118.7	113.6	101.3	132.0	178.1	159.6	105.4	81.9
495.3	80°	418.6	162.7	80.8	74.7	65.5	98.2	141.2	126.9	75.7	53.2
212.9	82.5°	167.8	68.6	47.1	42.0	35.8	67.5	111.5	102.3	56.3	33.8
66.5	85°	54.2	22.5	17.4	13.3	16.4	42.0	66.5	69.6	39.9	17.4
10.2	87.5°	7.2	3.1	3.1	4.1	3.1	7.2	20.5	19.4	11.3	2.0
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

180°
2354.8
2076.4
1680.4
1299.7
1061.2
974.3
944.6
910.8
863.7
803.3
737.9
674.4
624.3
590.5
564.9
566.9
548.5
506.6
465.6
430.8
407.3
390.9
360.2
334.6
298.8
258.9
219.0
195.5
174.0
137.1
100.3
78.8
52.2
33.8
13.3
0.0
0.0

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