

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: P946503

Luminaire Tested: **GALN-SB2A-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8740 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

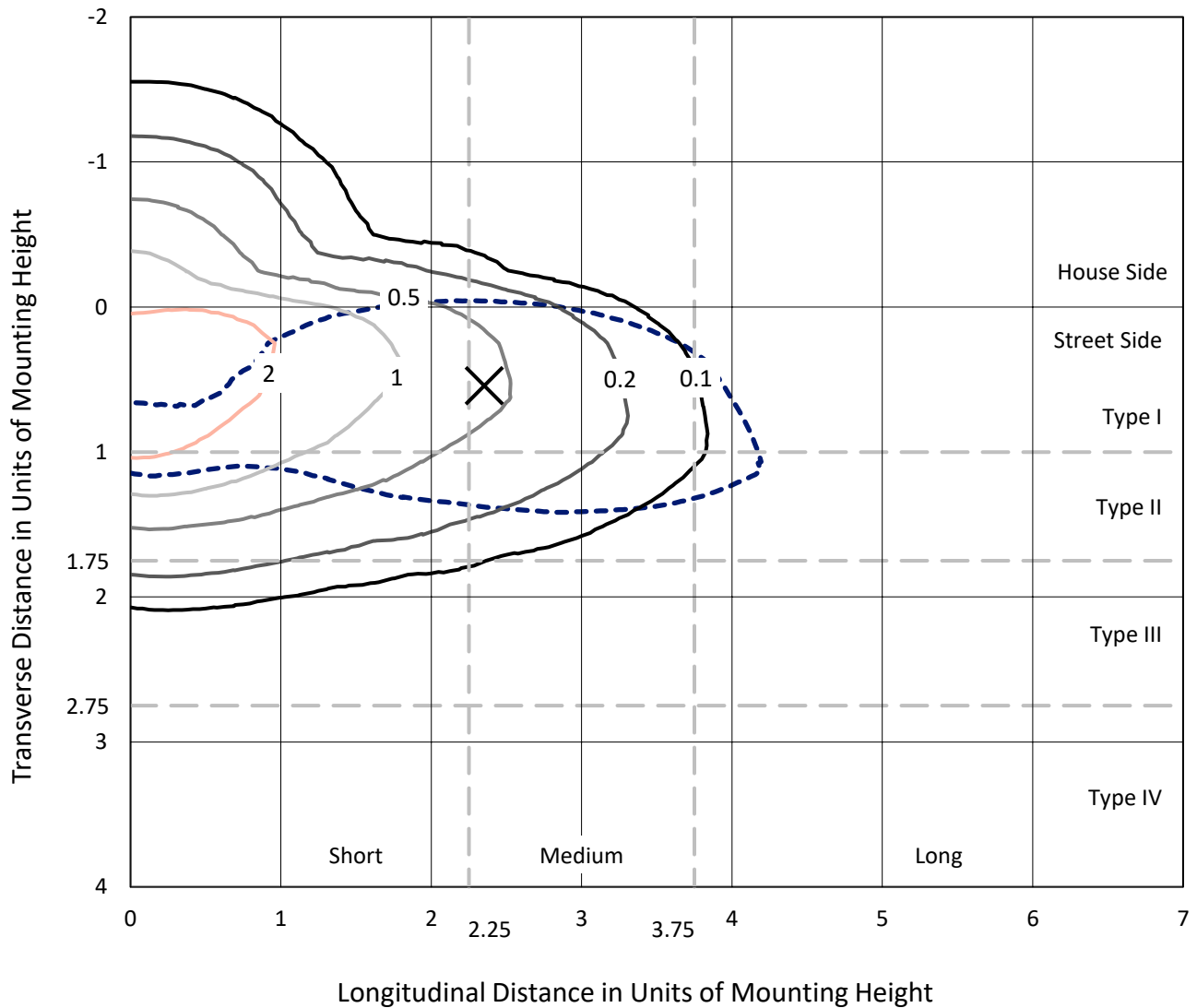
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

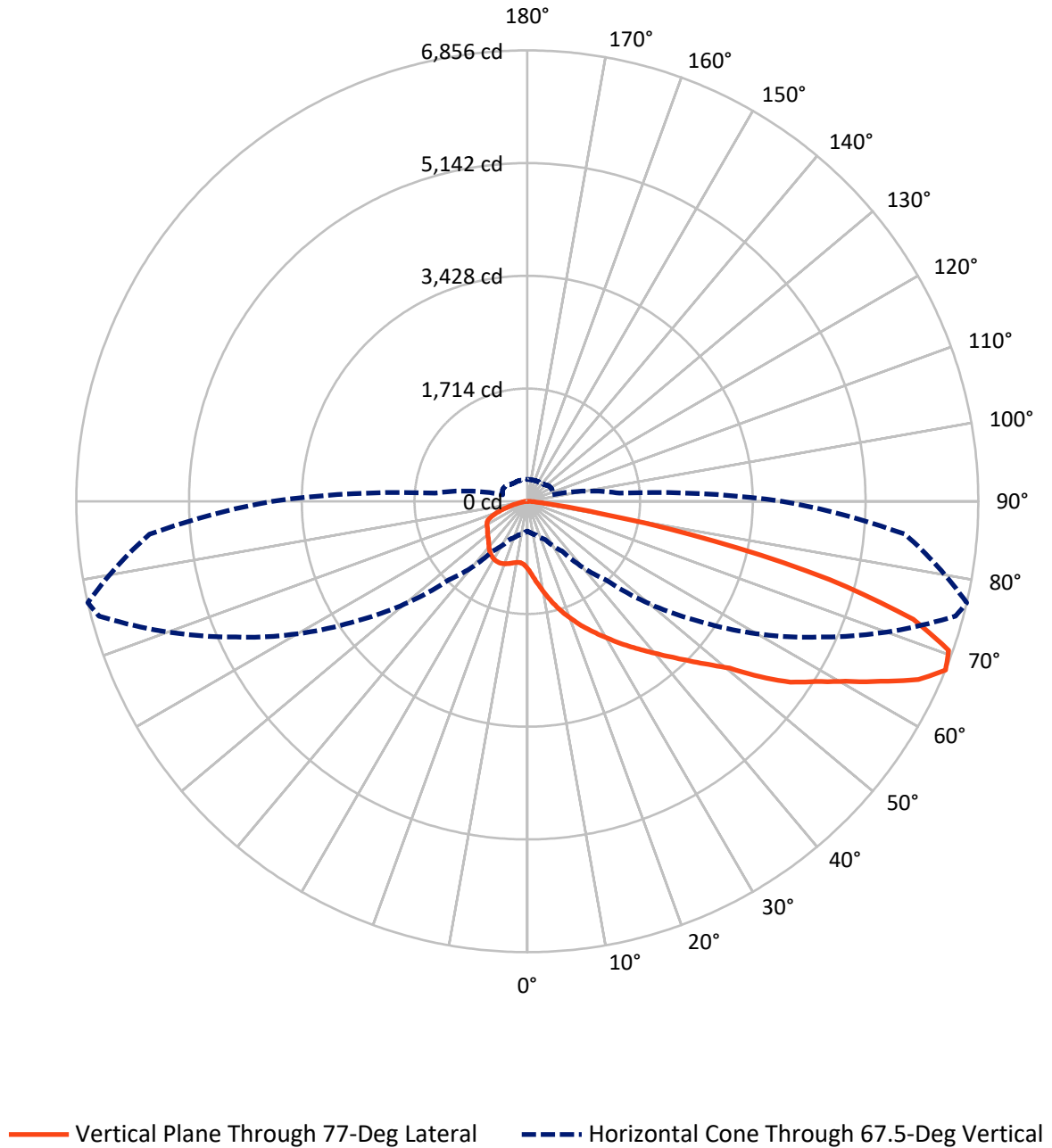
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.3	0.0	1653.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7086.7	0.0	7086.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	8740.0	0.0	8740.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.3
10°-20°	394.9	4.5
20°-30°	745.6	8.5
30°-40°	1201.1	13.7
40°-50°	1642.9	18.8
50°-60°	1853.2	21.2
60°-70°	1729.8	19.8
70°-80°	948.2	10.8
80°-90°	114.4	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°	8740.0	100.0
0°-180°	8740.0	100.0



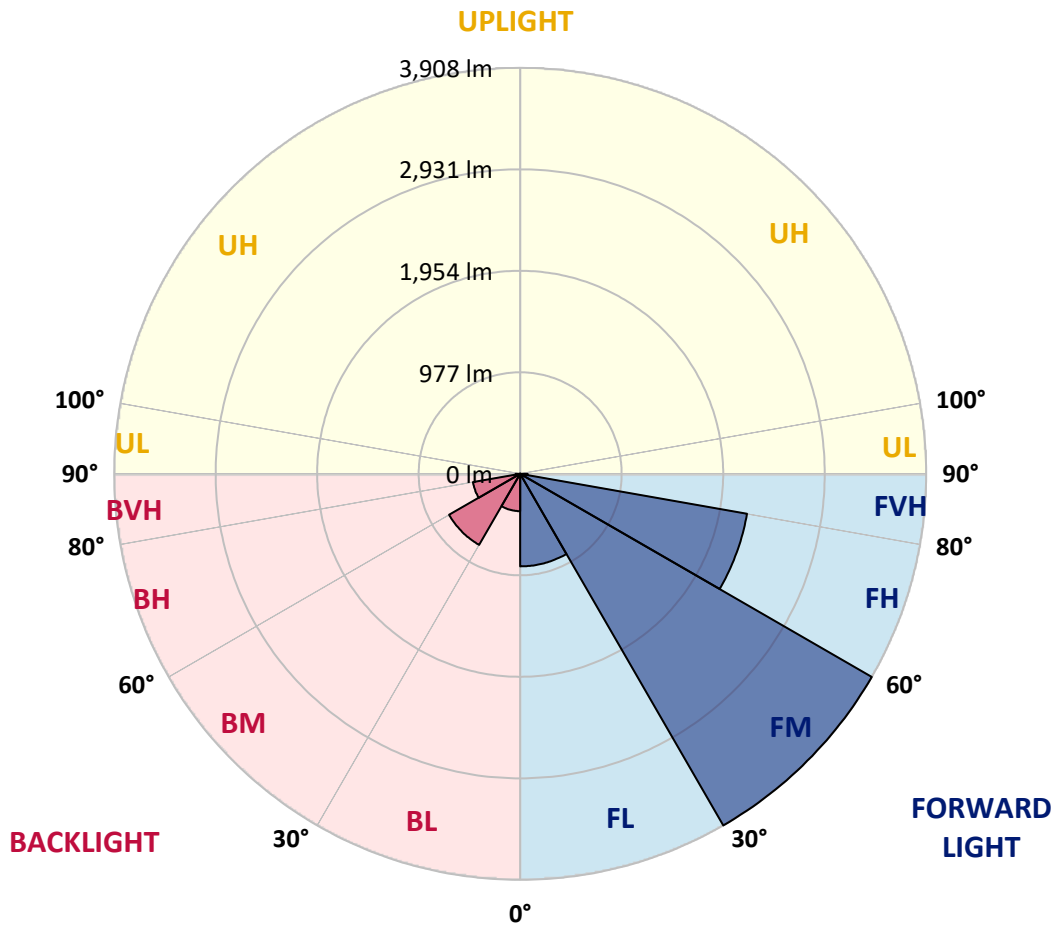
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.9	10.2			
FM (30°-60°)	3907.6	44.7			
FH (60°-80°)	2216.7	25.4			G2/5000
FVH (80°-90°)	71.5	0.8			G1/100
BL (0°-30°)	359.5	4.1	B1/500		
BM (30°-60°)	789.7	9.0	B1/1000		
BH (60°-80°)	461.2	5.3	B1/500		G1/500
BVH (80°-90°)	42.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5
2.5°	1284.0	1293.0	1281.7	1281.7	1243.8	1224.0	1186.1	1157.2	1105.3	1096.3
5°	1517.7	1529.0	1513.2	1506.4	1461.7	1420.7	1357.1	1294.4	1201.9	1192.4
7.5°	1698.6	1713.0	1699.0	1691.8	1652.1	1606.1	1531.7	1444.1	1313.8	1295.3
10°	1846.1	1848.4	1843.9	1846.6	1815.4	1777.5	1701.3	1599.3	1436.5	1411.2
12.5°	1929.6	1940.0	1949.0	1965.2	1959.8	1936.4	1867.8	1746.0	1566.4	1533.9
15°	1968.8	1986.9	2007.2	2044.6	2074.9	2080.7	2028.4	1903.4	1698.6	1659.3
17.5°	1982.8	2000.0	2032.0	2086.1	2151.1	2194.9	2171.4	2056.4	1829.4	1784.3
20°	2053.7	2058.6	2078.0	2129.4	2199.8	2272.5	2290.1	2203.4	1958.9	1907.9
22.5°	2205.2	2195.3	2200.7	2224.2	2274.7	2345.1	2385.3	2333.4	2092.0	2033.4
25°	2455.6	2426.8	2397.9	2370.8	2396.5	2436.2	2481.8	2463.3	2231.4	2157.0
27.5°	2771.9	2736.7	2673.1	2584.2	2553.1	2567.1	2587.4	2583.8	2360.4	2285.1
30°	3083.2	3042.1	2966.3	2837.8	2755.6	2718.7	2703.3	2692.9	2500.7	2420.4
32.5°	3331.8	3299.3	3224.9	3080.9	2961.8	2898.7	2847.7	2810.7	2647.4	2567.1
35°	3549.2	3519.0	3433.7	3276.7	3147.3	3080.0	3013.3	2934.3	2799.9	2718.7
37.5°	3747.7	3717.5	3600.7	3437.3	3307.0	3260.5	3200.9	3066.9	2952.8	2876.1
40°	3873.2	3866.4	3757.2	3572.2	3436.9	3413.9	3394.0	3220.8	3122.4	3051.2
42.5°	3905.2	3920.1	3833.5	3681.4	3552.4	3533.9	3580.4	3394.9	3312.8	3244.7
45°	3828.0	3870.9	3814.1	3710.7	3634.5	3624.6	3745.5	3585.3	3523.5	3461.3
47.5°	3632.7	3705.3	3681.9	3667.4	3656.6	3699.5	3890.8	3787.4	3762.2	3708.0
50°	3238.4	3376.0	3417.0	3508.2	3612.8	3757.7	4022.9	4008.1	4041.0	3986.4
52.5°	2556.7	2746.2	2984.4	3212.7	3478.4	3738.3	4168.2	4324.8	4463.7	4433.9
55°	2110.5	2195.8	2378.9	2797.6	3217.6	3656.6	4233.6	4580.6	4883.3	4856.7
57.5°	1767.6	1843.9	1956.7	2306.3	2823.3	3471.2	4274.2	4736.7	5170.7	5168.0
60°	1399.9	1480.7	1596.2	1843.9	2362.7	3150.9	4265.2	4914.4	5537.5	5560.0
62.5°	984.9	1073.7	1201.9	1432.9	1892.1	2735.8	4081.1	5043.0	5969.2	6030.6
65°	647.4	706.1	802.6	1002.0	1409.9	2202.1	3729.7	5059.7	6431.2	6535.0
67.5°	453.9	476.4	533.3	641.5	929.4	1688.7	3169.8	4886.9	6739.3	6856.2
70°	354.2	365.4	394.3	437.6	583.8	1135.6	2429.0	4437.6	6673.5	6795.3
72.5°	305.9	316.7	327.5	333.0	391.6	701.1	1645.4	3710.3	6053.1	6135.7
75°	277.5	280.2	289.2	287.4	298.7	454.8	949.7	2703.3	4775.9	4747.5
77.5°	233.2	236.9	251.7	249.5	265.3	310.8	493.1	1744.6	3096.3	2903.2
80°	197.6	199.4	215.7	212.9	230.5	225.1	251.7	889.2	1313.3	1112.5
82.5°	68.6	84.8	164.7	169.6	176.0	136.2	145.3	362.7	401.1	307.2
85°	33.4	35.6	83.9	119.1	118.7	68.6	70.8	129.5	126.3	99.3
87.5°	5.4	6.8	9.9	46.5	37.0	18.0	24.4	25.3	26.2	22.6
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°
1025.5	0°	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5	1025.5
1062.0	2.5°	1036.8	1014.2	966.8	923.1	888.8	855.8	837.3	821.6	812.5	810.7
1111.6	5°	1064.7	1018.3	932.1	859.4	812.1	776.9	758.4	746.7	740.8	737.2
1178.4	7.5°	1104.9	1036.8	914.0	831.5	781.9	756.6	747.1	745.3	744.9	745.3
1259.2	10°	1160.4	1067.0	912.2	824.7	783.2	769.2	768.8	769.2	771.0	771.5
1347.1	12.5°	1220.4	1098.1	919.5	830.6	800.3	792.7	791.3	790.9	792.2	793.1
1436.0	15°	1285.8	1139.2	931.6	843.2	819.3	811.2	809.8	807.1	806.7	806.2
1529.4	17.5°	1353.0	1179.8	945.2	856.7	831.5	820.2	815.2	808.9	804.0	802.6
1626.0	20°	1421.1	1219.9	954.6	863.5	832.4	816.6	806.7	795.8	787.3	782.3
1723.4	22.5°	1493.8	1261.9	960.5	861.7	824.3	802.6	784.6	771.9	758.8	750.3
1821.8	25°	1564.6	1298.4	960.1	852.2	808.5	780.9	757.9	741.7	723.7	714.6
1923.3	27.5°	1632.7	1331.4	948.8	835.5	785.9	755.2	727.7	708.3	690.7	682.1
2025.7	30°	1703.1	1358.9	931.2	811.2	759.3	725.5	695.2	678.5	662.7	654.6
2134.0	32.5°	1773.0	1384.1	906.4	780.9	728.6	696.1	666.4	651.0	641.5	641.5
2250.4	35°	1847.0	1401.7	873.4	745.8	696.1	665.0	641.5	632.5	631.6	626.2
2373.5	37.5°	1925.1	1413.0	833.3	709.7	664.1	634.8	627.6	616.7	607.7	596.0
2508.9	40°	2007.2	1424.3	785.0	672.2	630.3	614.0	610.9	596.4	570.7	541.8
2662.3	42.5°	2106.9	1432.0	734.9	634.8	594.6	589.2	593.7	568.9	527.9	506.2
2847.2	45°	2222.4	1444.6	688.9	597.8	558.1	558.1	577.0	544.5	510.7	497.2
3058.4	47.5°	2372.2	1473.9	646.1	557.2	524.2	533.3	540.0	515.2	496.3	479.6
3315.5	50°	2588.7	1544.3	601.8	516.1	498.5	516.6	507.1	492.7	470.6	457.0
3724.3	52.5°	2857.6	1585.8	562.6	479.1	476.4	494.5	480.9	467.4	450.7	432.7
4034.2	55°	3040.8	1593.5	529.7	452.1	461.5	459.7	454.8	442.6	433.6	409.6
4340.1	57.5°	3245.6	1608.8	502.6	435.8	452.1	432.2	430.4	420.0	408.3	392.1
4713.2	60°	3490.6	1632.7	479.1	429.5	443.9	414.2	405.1	401.1	389.3	381.2
5162.1	62.5°	3757.7	1654.4	455.2	430.4	434.5	396.6	383.0	381.7	374.5	371.8
5583.5	65°	3939.9	1595.3	425.4	429.5	419.6	378.5	361.4	360.9	355.1	354.2
5766.2	67.5°	3876.3	1408.1	385.3	416.9	404.2	360.5	341.5	339.7	332.0	332.5
5575.4	70°	3557.8	1141.0	329.8	385.7	385.3	344.2	320.8	314.9	304.5	306.3
4847.7	72.5°	2960.5	845.5	255.4	333.9	355.1	329.3	296.9	287.4	274.3	276.1
3578.6	75°	2138.0	574.8	185.9	254.0	309.0	311.7	273.4	257.2	241.4	244.1
1991.8	77.5°	1094.0	325.7	136.7	175.0	242.7	283.3	252.2	230.5	226.9	252.2
574.3	80°	356.9	163.3	94.7	122.7	159.3	231.9	221.1	196.3	195.3	201.2
120.5	82.5°	106.5	69.0	60.9	80.8	88.0	177.8	190.8	148.4	127.7	134.4
40.2	85°	36.5	33.4	34.7	40.2	42.0	104.2	133.5	98.4	92.9	102.4
9.0	87.5°	8.6	11.7	9.9	9.0	9.0	25.3	51.9	41.1	56.8	37.9
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°
1025.5
810.7
736.7
746.7
771.9
793.6
805.8
804.0
784.1
750.7
714.6
681.7
654.2
642.0
624.8
594.2
537.8
506.6
499.4
479.1
455.7
429.0
410.1
386.6
383.5
371.8
353.7
332.5
308.1
275.7
245.0
248.6
172.8
139.0
101.1
36.5
0.0

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