

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: P947531

Luminaire Tested: **GALN-SB2D-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15982 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

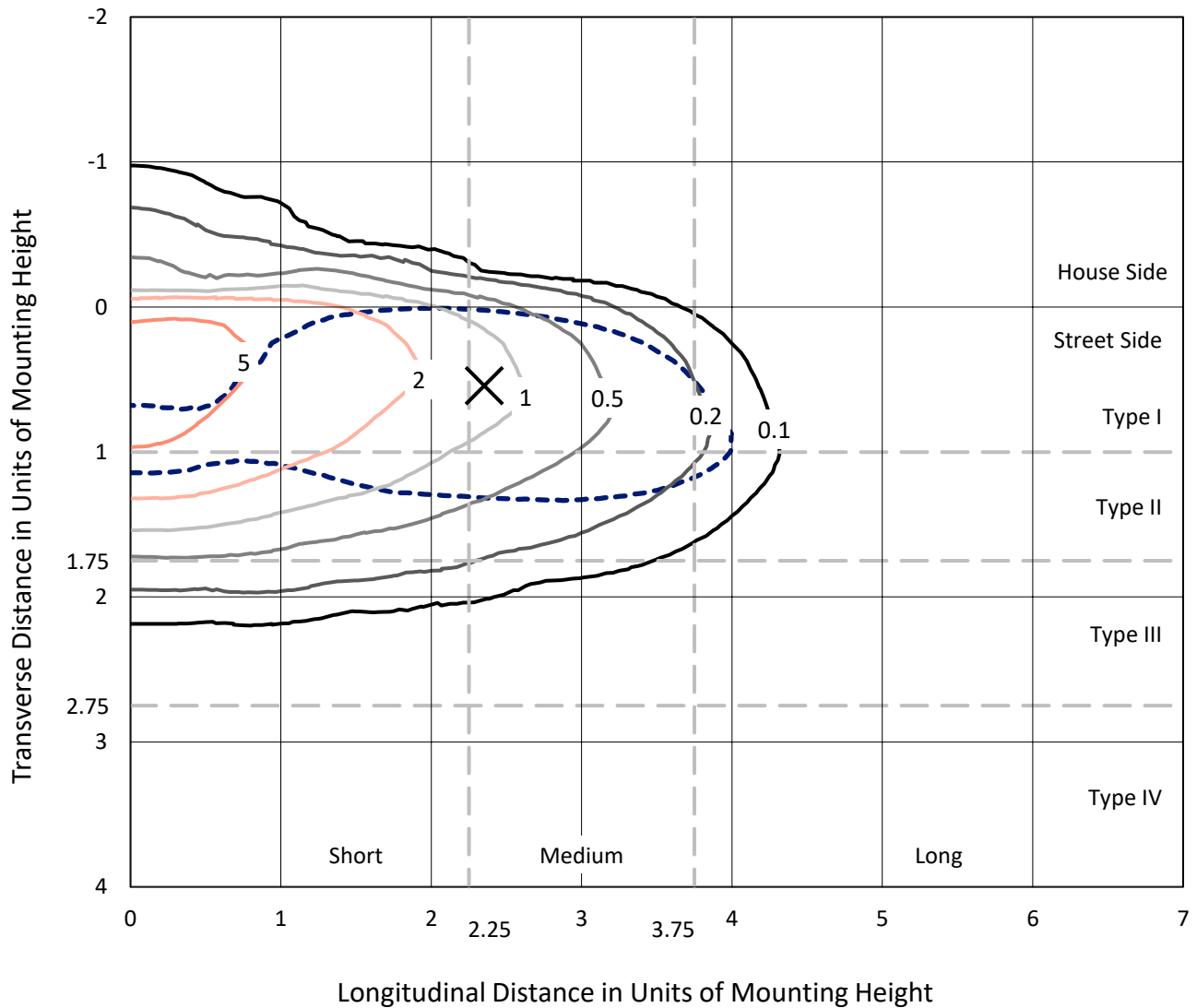
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947531
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Iso-Footcandle Lines of Horizontal Illumination

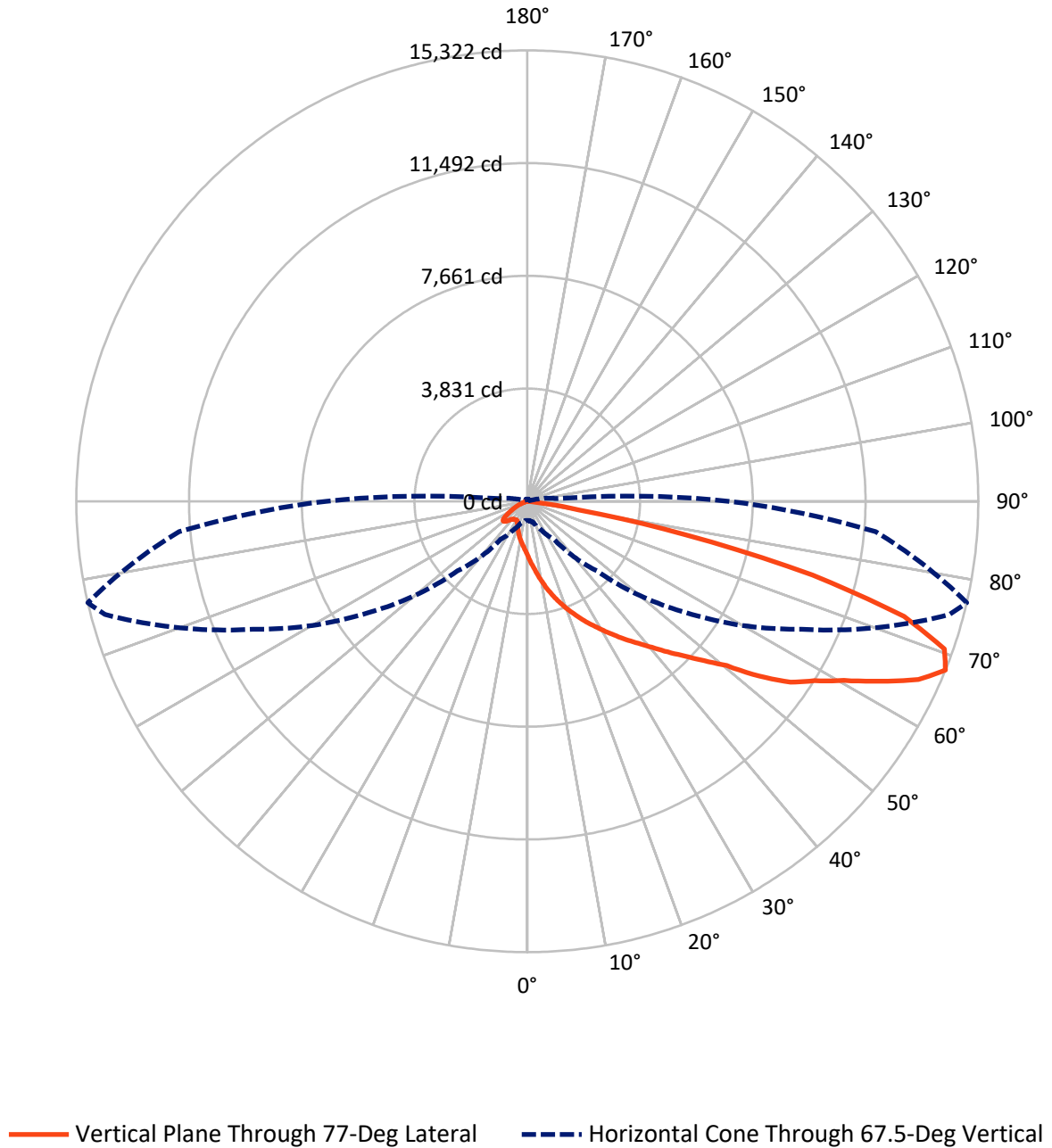
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P947531
CATALOG NUMBER: GALN-SB2D-835-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1175.8	0.0	1175.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	14806.2	0.0	14806.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	15982.0	0.0	15982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	1.2
10°-20°	658.7	4.1
20°-30°	1271.1	8.0
30°-40°	2206.8	13.8
40°-50°	3204.1	20.0
50°-60°	3679.5	23.0
60°-70°	3194.5	20.0
70°-80°	1504.7	9.4
80°-90°	74.4	0.5
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°	15982.0	100.0
0°-180°	15982.0	100.0

Coefficient of Utilization



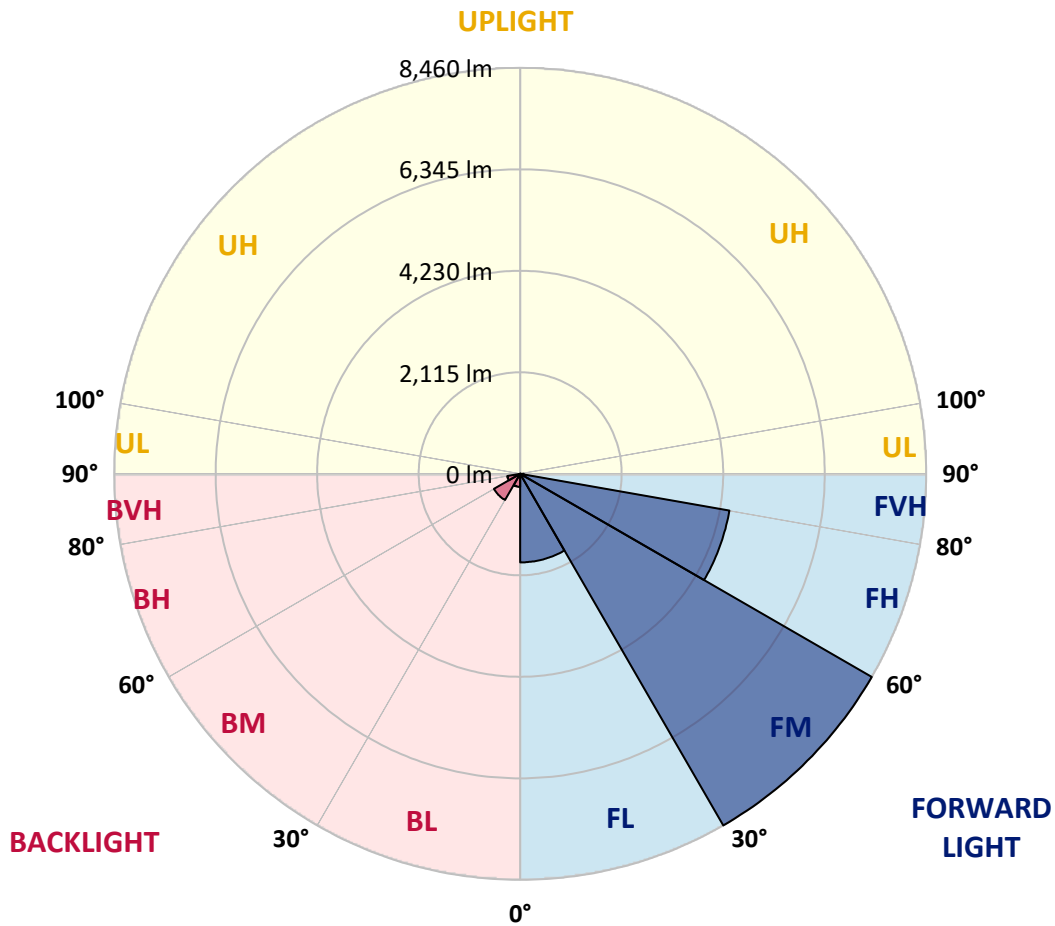
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.7	11.5			
FM (30°-60°)	8460.4	52.9			
FH (60°-80°)	4427.0	27.7			G2/5000
FVH (80°-90°)	73.0	0.5			G1/100
BL (0°-30°)	272.2	1.7	B1/500		
BM (30°-60°)	630.0	3.9	B1/1000		
BH (60°-80°)	272.2	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
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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 CATALOG NUMBER: GALN-SB2D-835-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0
2.5°	2551.6	2567.4	2544.6	2500.9	2435.4	2392.8	2288.6	2190.3	2081.1	2046.4
5°	3110.3	3124.2	3098.4	3050.8	2963.4	2880.1	2743.1	2537.7	2324.3	2255.8
7.5°	3524.2	3532.1	3522.2	3478.5	3395.1	3300.9	3148.0	2904.9	2588.3	2512.9
10°	3821.9	3847.7	3844.7	3827.8	3772.3	3695.8	3533.1	3256.2	2884.0	2786.8
12.5°	4019.4	4048.2	4065.0	4102.7	4099.8	4051.1	3908.2	3615.5	3178.8	3064.7
15°	4076.9	4107.7	4172.2	4259.5	4337.0	4361.8	4261.5	3967.8	3503.3	3357.4
17.5°	4044.2	4091.8	4169.2	4307.2	4476.9	4589.0	4578.1	4308.2	3798.1	3631.3
20°	4116.6	4162.3	4222.8	4338.9	4536.4	4739.9	4821.3	4633.7	4090.8	3916.2
22.5°	4517.6	4509.6	4515.6	4534.5	4652.6	4854.0	5021.7	4929.4	4380.6	4202.0
25°	5152.7	5117.0	5056.5	4954.3	4924.5	5021.7	5196.4	5191.4	4686.3	4494.8
27.5°	5881.2	5875.2	5733.3	5487.2	5348.3	5310.5	5393.9	5446.5	4989.0	4784.5
30°	6578.9	6594.8	6403.2	6129.3	5874.2	5726.4	5650.9	5688.7	5296.6	5097.2
32.5°	7186.3	7203.1	6994.7	6674.2	6358.6	6179.9	6021.1	5927.8	5632.1	5414.7
35°	7699.3	7716.2	7477.0	7122.7	6786.3	6624.5	6444.9	6189.8	5969.5	5767.1
37.5°	8157.8	8152.9	7832.3	7475.1	7144.6	7016.5	6922.3	6512.4	6316.9	6121.4
40°	8428.8	8449.6	8175.7	7781.7	7461.2	7367.9	7361.9	6912.3	6717.8	6528.3
42.5°	8508.2	8544.9	8346.4	8022.9	7732.1	7630.9	7786.7	7345.0	7184.3	6999.7
45°	8365.3	8401.0	8310.7	8086.4	7916.7	7851.2	8151.9	7793.6	7682.5	7499.9
47.5°	7948.4	7993.1	8014.9	7967.3	7965.3	8031.8	8479.4	8266.0	8274.0	8087.4
50°	7141.6	7217.0	7417.5	7586.2	7847.2	8174.7	8798.0	8778.1	8940.9	8780.1
52.5°	5674.8	5782.0	6472.7	6934.2	7520.7	8147.9	9148.3	9599.9	10111.0	9875.8
55°	4560.3	4560.3	5122.0	5985.4	6883.6	7971.3	9301.1	10133.8	10907.9	10852.3
57.5°	3717.7	3762.3	4120.6	4883.8	5961.6	7550.5	9395.4	10469.2	11550.0	11509.3
60°	2294.5	2390.8	3067.6	3820.9	4912.6	6801.2	9335.9	10808.7	12329.1	12361.8
62.5°	1292.2	1327.9	1629.6	2749.1	3819.9	5793.9	8880.3	10998.2	13325.5	13464.4
65°	892.2	910.1	1026.2	1711.0	2647.8	4612.9	7990.1	10880.1	14323.9	14604.7
67.5°	648.1	657.0	729.4	1045.0	1571.0	3344.5	6594.8	10284.6	14852.8	15322.3
70°	498.2	504.2	556.8	686.8	927.9	2064.3	4789.5	9100.7	14469.8	15030.5
72.5°	404.9	410.9	451.6	508.1	615.3	1220.7	2902.9	7390.7	12778.6	13384.0
75°	341.4	349.3	386.1	422.8	482.3	784.0	1361.6	5146.8	9609.8	10006.8
77.5°	189.6	174.7	313.6	350.3	406.9	496.2	637.1	3028.9	5382.0	5492.2
80°	118.1	122.1	249.1	281.9	312.6	250.1	291.8	1166.1	1865.8	1772.5
82.5°	6.9	15.9	191.5	203.5	214.4	107.2	110.2	396.0	449.6	412.9
85°	0.0	0.0	87.3	70.5	74.4	30.8	31.8	92.3	60.5	65.5
87.5°	0.0	0.0	0.0	2.0	0.0	3.0	6.0	7.9	3.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947531
 CATALOG NUMBER: GALN-SB2D-835-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1843.0	0°	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0	1843.0
1937.2	2.5°	1867.8	1798.3	1657.4	1519.4	1407.3	1303.1	1228.6	1158.2	1122.4	1120.5
2062.3	5°	1924.3	1778.5	1496.6	1247.5	1047.0	886.2	782.0	707.6	669.9	657.0
2216.1	7.5°	2003.7	1784.4	1355.7	1009.3	773.1	635.2	575.6	551.8	543.9	534.9
2389.8	10°	2104.0	1798.3	1229.6	812.8	609.4	539.9	516.1	506.1	500.2	494.2
2585.3	12.5°	2216.1	1811.2	1104.6	674.9	535.9	500.2	483.3	471.4	463.5	456.5
2785.8	15°	2325.3	1819.1	974.6	578.6	498.2	469.4	451.6	438.7	427.7	419.8
2982.3	17.5°	2433.5	1830.1	852.5	521.0	467.4	438.7	420.8	404.9	396.0	387.1
3188.7	20°	2553.5	1828.1	737.4	480.3	436.7	407.9	389.0	374.1	365.2	355.3
3407.0	22.5°	2664.7	1818.1	636.2	445.6	404.9	377.1	356.3	341.4	332.5	324.5
3630.3	25°	2792.7	1810.2	551.8	413.8	375.1	347.4	324.5	310.6	300.7	293.8
3854.6	27.5°	2915.8	1798.3	490.3	385.1	346.4	319.6	297.7	281.9	272.9	268.0
4085.9	30°	3036.9	1795.3	467.4	357.3	320.6	293.8	271.9	257.0	250.1	248.1
4339.9	32.5°	3182.8	1803.3	477.4	347.4	296.7	269.9	249.1	238.2	231.2	231.2
4622.8	35°	3338.6	1801.3	492.2	356.3	280.9	246.1	230.2	223.3	216.4	216.4
4936.4	37.5°	3534.1	1804.3	504.2	371.2	274.9	226.3	217.3	208.4	204.4	204.4
5279.8	40°	3825.9	1902.5	498.2	384.1	272.9	212.4	194.5	191.5	188.6	188.6
5667.8	42.5°	4183.1	2115.9	506.1	385.1	271.9	202.5	178.6	184.6	177.6	176.7
6105.5	45°	4574.2	2349.1	556.8	364.2	270.9	197.5	170.7	177.6	166.7	166.7
6612.6	47.5°	4962.2	2580.3	608.4	334.5	268.0	196.5	163.8	159.8	156.8	157.8
7273.6	50°	5497.1	2768.9	628.2	293.8	261.0	194.5	150.9	151.8	149.9	151.8
8205.5	52.5°	6079.7	2808.6	604.4	248.1	241.2	188.6	141.9	145.9	144.9	146.9
8861.5	55°	6442.9	2765.9	499.2	206.4	210.4	164.7	133.0	140.9	140.9	140.9
9502.6	57.5°	6818.1	2584.3	354.3	167.7	174.7	135.0	125.0	136.0	135.0	134.0
10274.7	60°	7088.0	2290.5	233.2	137.9	138.9	111.2	116.1	128.0	127.0	122.1
11070.7	62.5°	7289.5	1966.0	149.9	117.1	106.2	100.2	106.2	116.1	112.1	101.2
11745.5	65°	7266.6	1516.4	115.1	100.2	87.3	87.3	92.3	101.2	89.3	71.5
11874.5	67.5°	6842.9	1026.2	95.3	84.4	73.4	72.4	76.4	84.4	76.4	60.5
11213.6	70°	6085.6	670.9	76.4	65.5	58.6	53.6	61.5	72.4	64.5	48.6
9546.3	72.5°	4939.4	408.9	57.6	47.6	42.7	34.7	48.6	59.5	51.6	35.7
6638.4	75°	3195.7	208.4	39.7	30.8	22.8	20.8	35.7	44.7	35.7	21.8
2945.6	77.5°	1222.7	87.3	21.8	13.9	11.9	9.9	19.8	26.8	14.9	5.0
570.7	80°	235.2	36.7	10.9	6.9	6.0	4.0	3.0	2.0	0.0	0.0
101.2	82.5°	40.7	11.9	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19.8	85°	13.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1843.0
1118.5
655.0
532.9
492.2
454.5
418.8
386.1
354.3
323.5
292.8
268.0
247.1
231.2
216.4
204.4
188.6
175.7
166.7
157.8
151.8
146.9
140.9
134.0
122.1
99.2
69.5
58.6
46.6
33.7
18.9
4.0
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