

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: P952487

Luminaire Tested: **GALN-SB6B-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952487
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-SB6B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA 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: 25141 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

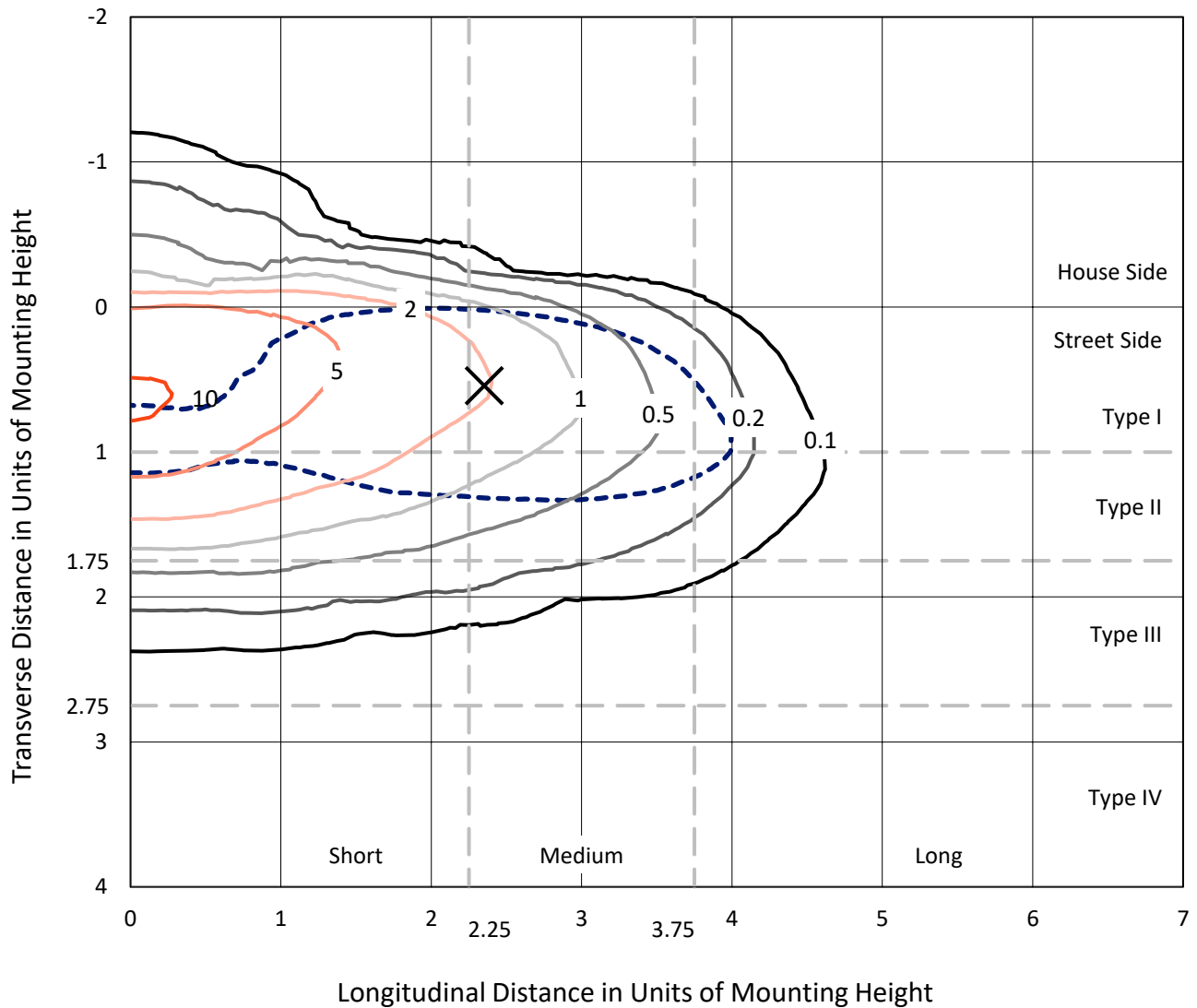
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

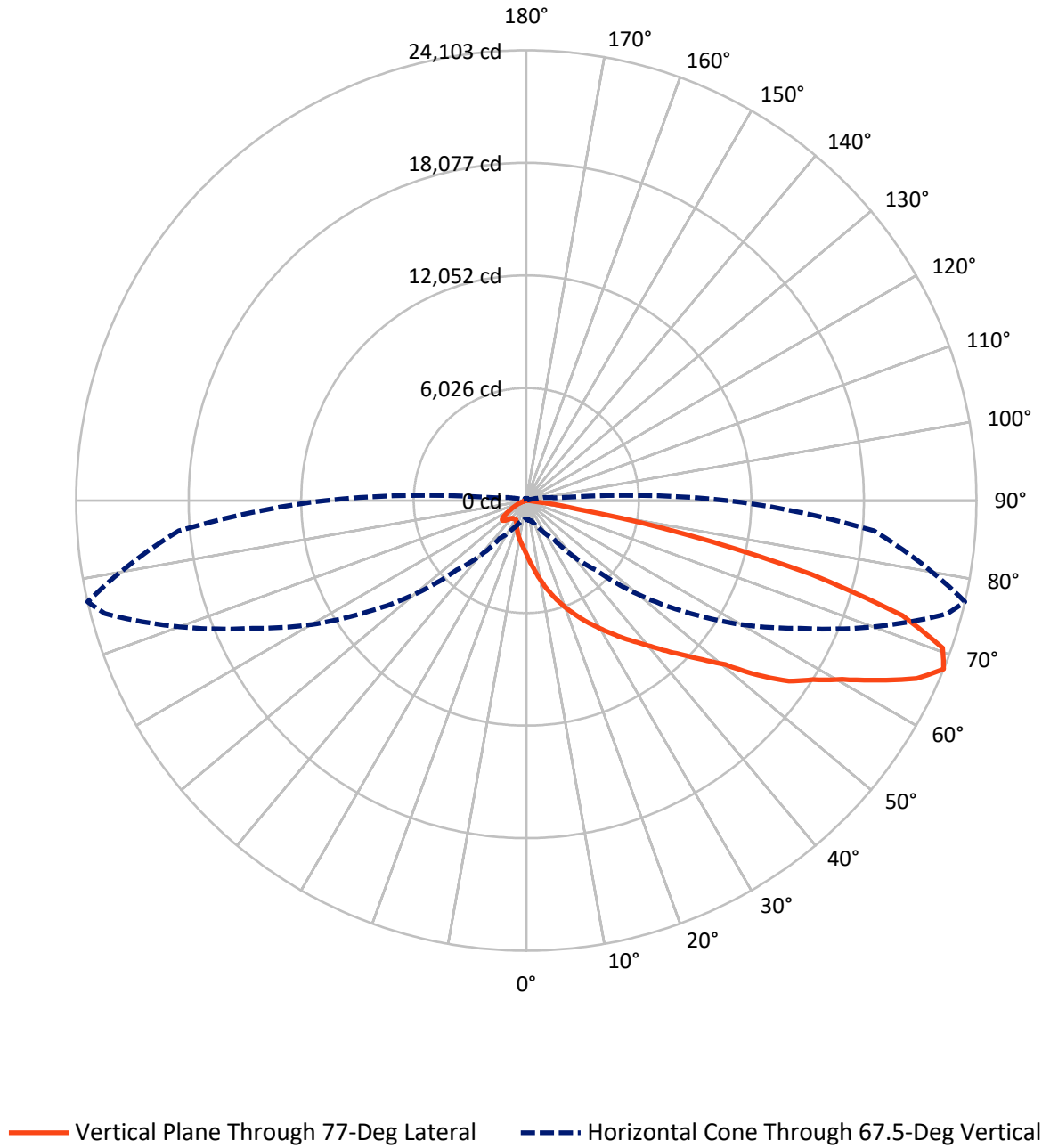
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	1849.6	0.0	1849.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	23291.4	0.0	23291.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	25141.0	0.0	25141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.9	1.2
10°-20°	1036.2	4.1
20°-30°	1999.6	8.0
30°-40°	3471.4	13.8
40°-50°	5040.4	20.0
50°-60°	5788.2	23.0
60°-70°	5025.2	20.0
70°-80°	2366.9	9.4
80°-90°	117.1	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°	25141.0	100.0
0°-180°	25141.0	100.0

Coefficient of Utilization



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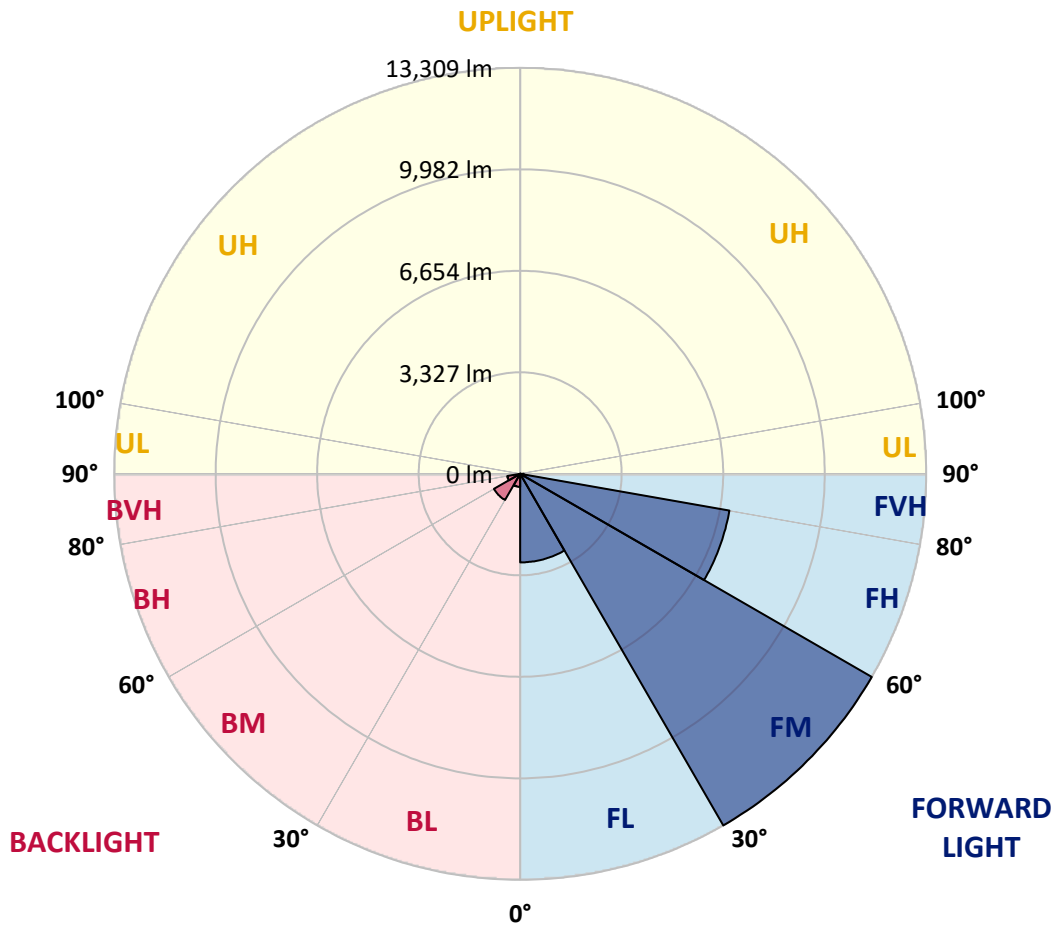
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2903.5	11.5			
FM (30°-60°)	13309.0	52.9			
FH (60°-80°)	6964.0	27.7			G3/7500
FVH (80°-90°)	114.9	0.5			G2/225
BL (0°-30°)	428.2	1.7	B1/500		
BM (30°-60°)	991.1	3.9	B1/1000		
BH (60°-80°)	428.2	1.7	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1
2.5°	4013.8	4038.8	4002.9	3934.2	3831.2	3764.0	3600.1	3445.5	3273.8	3219.2
5°	4892.8	4914.6	4874.0	4799.1	4661.7	4530.6	4315.1	3992.0	3656.3	3548.6
7.5°	5543.8	5556.3	5540.7	5472.0	5340.8	5192.5	4952.1	4569.6	4071.6	3952.9
10°	6012.1	6052.7	6048.0	6021.5	5934.1	5813.9	5557.8	5122.3	4536.8	4383.8
12.5°	6322.8	6368.1	6394.6	6454.0	6449.3	6372.8	6148.0	5687.4	5000.5	4820.9
15°	6413.4	6461.8	6563.2	6700.6	6822.4	6861.4	6703.7	6241.6	5511.0	5281.5
17.5°	6361.8	6436.8	6558.6	6775.6	7042.5	7218.9	7201.8	6777.1	5974.7	5712.4
20°	6475.8	6547.6	6642.9	6825.5	7136.2	7456.2	7584.3	7289.2	6435.2	6160.4
22.5°	7106.5	7094.0	7103.4	7133.1	7318.9	7635.8	7899.6	7754.4	6891.1	6610.1
25°	8105.7	8049.5	7954.3	7793.5	7746.6	7899.6	8174.4	8166.6	7371.9	7070.6
27.5°	9251.6	9242.2	9019.0	8631.8	8413.2	8353.9	8485.1	8567.8	7848.1	7526.5
30°	10349.1	10374.1	10072.8	9641.9	9240.7	9008.1	8889.4	8948.7	8332.1	8018.3
32.5°	11304.6	11331.1	11003.3	10499.0	10002.5	9721.5	9471.7	9325.0	8859.7	8517.8
35°	12111.7	12138.2	11762.0	11204.6	10675.4	10420.9	10138.4	9737.1	9390.5	9072.1
37.5°	12833.0	12825.2	12320.9	11758.9	11239.0	11037.6	10889.3	10244.5	9937.0	9629.4
40°	13259.2	13292.0	12861.1	12241.3	11737.0	11590.3	11580.9	10873.7	10567.7	10269.5
42.5°	13384.1	13441.8	13129.6	12620.6	12163.2	12004.0	12249.1	11554.4	11301.4	11011.1
45°	13159.3	13215.5	13073.4	12720.6	12453.6	12350.6	12823.6	12260.0	12085.2	11797.9
47.5°	12503.6	12573.8	12608.2	12533.2	12530.1	12634.7	13338.8	13003.1	13015.6	12722.1
50°	11234.3	11353.0	11668.3	11933.7	12344.3	12859.5	13839.9	13808.7	14064.7	13811.8
52.5°	8926.9	9095.5	10182.1	10908.0	11830.7	12817.4	14391.0	15101.4	15905.4	15535.4
55°	7173.7	7173.7	8057.3	9415.5	10828.4	12539.5	14631.5	15941.3	17159.0	17071.6
57.5°	5848.2	5918.5	6482.1	7682.6	9378.1	11877.5	14779.8	16469.0	18169.1	18105.1
60°	3609.5	3760.9	4825.6	6010.6	7727.9	10698.8	14686.1	17002.9	19394.6	19446.2
62.5°	2032.7	2088.9	2563.5	4324.5	6009.0	9114.2	13969.5	17301.1	20962.1	21180.6
65°	1403.5	1431.6	1614.3	2691.5	4165.3	7256.4	12569.1	17115.3	22532.6	22974.4
67.5°	1019.5	1033.5	1147.5	1643.9	2471.4	5261.2	10374.1	16178.6	23364.7	24103.2
70°	783.7	793.1	875.8	1080.3	1459.7	3247.3	7534.3	14316.1	22762.1	23644.2
72.5°	637.0	646.3	710.3	799.3	967.9	1920.3	4566.5	11626.2	20101.9	21054.2
75°	537.0	549.5	607.3	665.1	758.7	1233.3	2142.0	8096.3	15117.0	15741.5
77.5°	298.2	274.8	493.3	551.1	640.1	780.6	1002.3	4764.7	8466.3	8639.6
80°	185.8	192.0	391.9	443.4	491.8	393.4	459.0	1834.4	2935.0	2788.3
82.5°	10.9	25.0	301.3	320.0	337.2	168.6	173.3	622.9	707.2	649.5
85°	0.0	0.0	137.4	110.8	117.1	48.4	50.0	145.2	95.2	103.0
87.5°	0.0	0.0	0.0	3.1	0.0	4.7	9.4	12.5	4.7	6.2
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°
2899.1	0°	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1	2899.1
3047.4	2.5°	2938.2	2828.9	2607.2	2390.2	2213.8	2049.8	1932.8	1821.9	1765.7	1762.6
3244.1	5°	3027.1	2797.6	2354.3	1962.4	1647.1	1394.1	1230.2	1113.1	1053.8	1033.5
3486.1	7.5°	3152.0	2807.0	2132.6	1587.7	1216.2	999.2	905.5	868.0	855.5	841.5
3759.3	10°	3309.7	2828.9	1934.3	1278.6	958.6	849.3	811.8	796.2	786.8	777.5
4066.9	12.5°	3486.1	2849.2	1737.6	1061.6	843.0	786.8	760.3	741.6	729.1	718.1
4382.3	15°	3657.9	2861.7	1533.1	910.2	783.7	738.4	710.3	690.0	672.9	660.4
4691.4	17.5°	3828.0	2878.8	1341.1	819.6	735.3	690.0	661.9	637.0	622.9	608.9
5016.1	20°	4016.9	2875.7	1160.0	755.6	686.9	641.6	612.0	588.6	574.5	558.9
5359.6	22.5°	4191.8	2860.1	1000.7	701.0	637.0	593.3	560.5	537.0	523.0	510.5
5710.8	25°	4393.2	2847.6	868.0	651.0	590.1	546.4	510.5	488.7	473.0	462.1
6063.7	27.5°	4586.8	2828.9	771.2	605.7	544.9	502.7	468.4	443.4	429.3	421.5
6427.4	30°	4777.2	2824.2	735.3	562.0	504.3	462.1	427.8	404.3	393.4	390.3
6827.1	32.5°	5006.7	2836.7	750.9	546.4	466.8	424.6	391.9	374.7	363.8	363.8
7272.0	35°	5251.8	2833.6	774.3	560.5	441.8	387.2	362.2	351.3	340.3	340.3
7765.4	37.5°	5559.4	2838.2	793.1	583.9	432.4	356.0	341.9	327.8	321.6	321.6
8305.5	40°	6018.4	2992.8	783.7	604.2	429.3	334.1	306.0	301.3	296.6	296.6
8915.9	42.5°	6580.4	3328.5	796.2	605.7	427.8	318.5	281.0	290.4	279.5	277.9
9604.4	45°	7195.5	3695.3	875.8	573.0	426.2	310.7	268.5	279.5	262.3	262.3
10402.2	47.5°	7805.9	4059.1	957.0	526.1	421.5	309.1	257.6	251.4	246.7	248.2
11441.9	50°	8647.4	4355.7	988.2	462.1	410.6	306.0	237.3	238.9	235.7	238.9
12907.9	52.5°	9563.8	4418.2	950.8	390.3	379.4	296.6	223.2	229.5	227.9	231.1
13939.9	55°	10135.2	4351.0	785.3	324.7	331.0	259.2	209.2	221.7	221.7	221.7
14948.4	57.5°	10725.4	4065.3	557.3	263.8	274.8	212.3	196.7	213.9	212.3	210.8
16163.0	60°	11150.0	3603.2	366.9	217.0	218.6	174.9	182.7	201.4	199.8	192.0
17415.1	62.5°	11466.9	3092.7	235.7	184.2	167.0	157.7	167.0	182.7	176.4	159.2
18476.7	65°	11431.0	2385.5	181.1	157.7	137.4	137.4	145.2	159.2	140.5	112.4
18679.6	67.5°	10764.4	1614.3	149.9	132.7	115.5	114.0	120.2	132.7	120.2	95.2
17639.9	70°	9573.2	1055.4	120.2	103.0	92.1	84.3	96.8	114.0	101.5	76.5
15017.1	72.5°	7770.0	643.2	90.5	74.9	67.1	54.6	76.5	93.7	81.2	56.2
10442.8	75°	5027.0	327.8	62.4	48.4	35.9	32.8	56.2	70.3	56.2	34.3
4633.6	77.5°	1923.4	137.4	34.3	21.9	18.7	15.6	31.2	42.2	23.4	7.8
897.7	80°	370.0	57.8	17.2	10.9	9.4	6.2	4.7	3.1	0.0	0.0
159.2	82.5°	64.0	18.7	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
31.2	85°	21.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.9	87.5°	7.8	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>
2899.1
1759.5
1030.4
838.4
774.3
715.0
658.8
607.3
557.3
508.9
460.6
421.5
388.7
363.8
340.3
321.6
296.6
276.3
262.3
248.2
238.9
231.1
221.7
210.8
192.0
156.1
109.3
92.1
73.4
53.1
29.7
6.2
0.0
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