

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: P947489

Luminaire Tested: **GALN-SB2D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947489
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-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 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: 14983 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

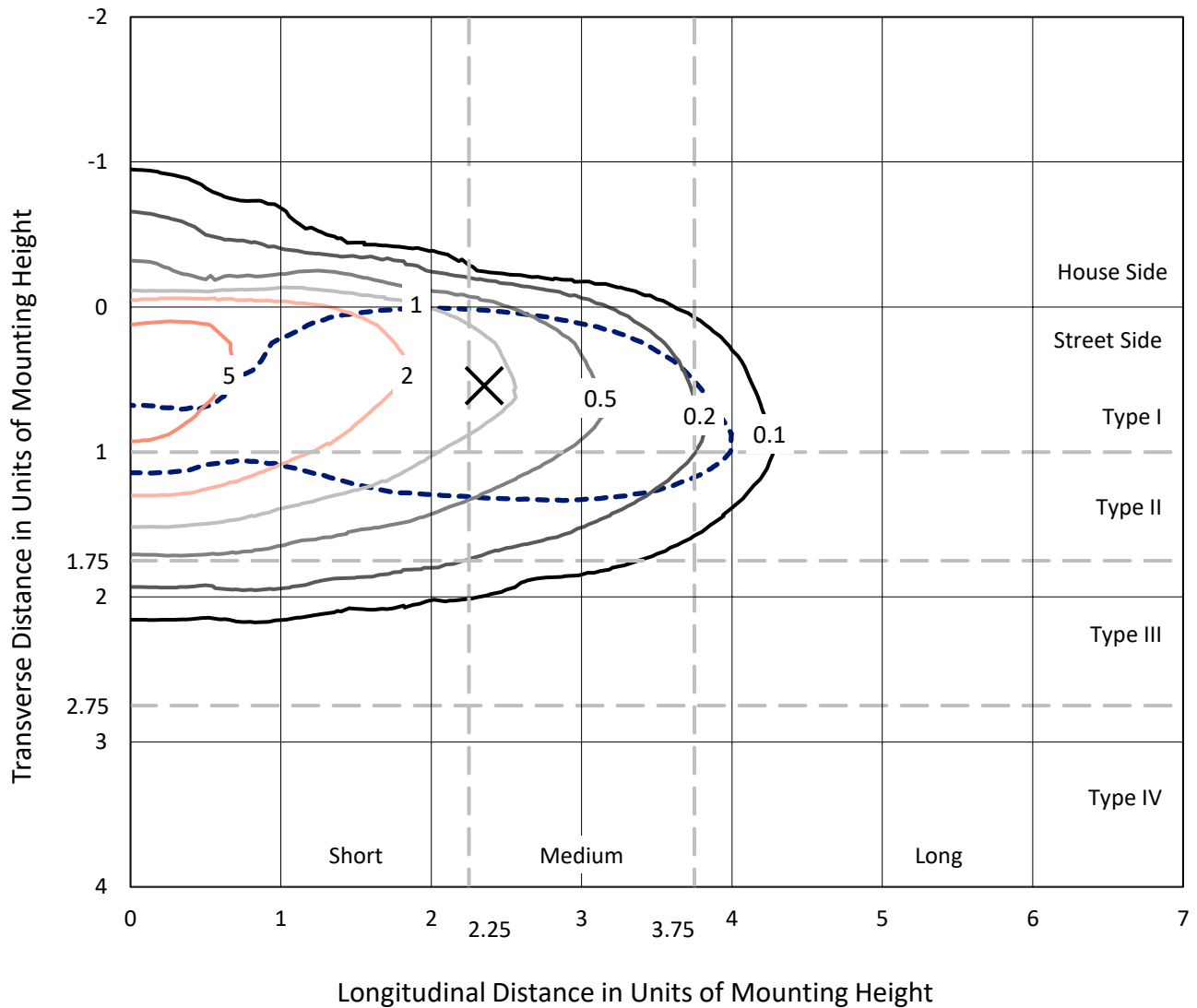
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

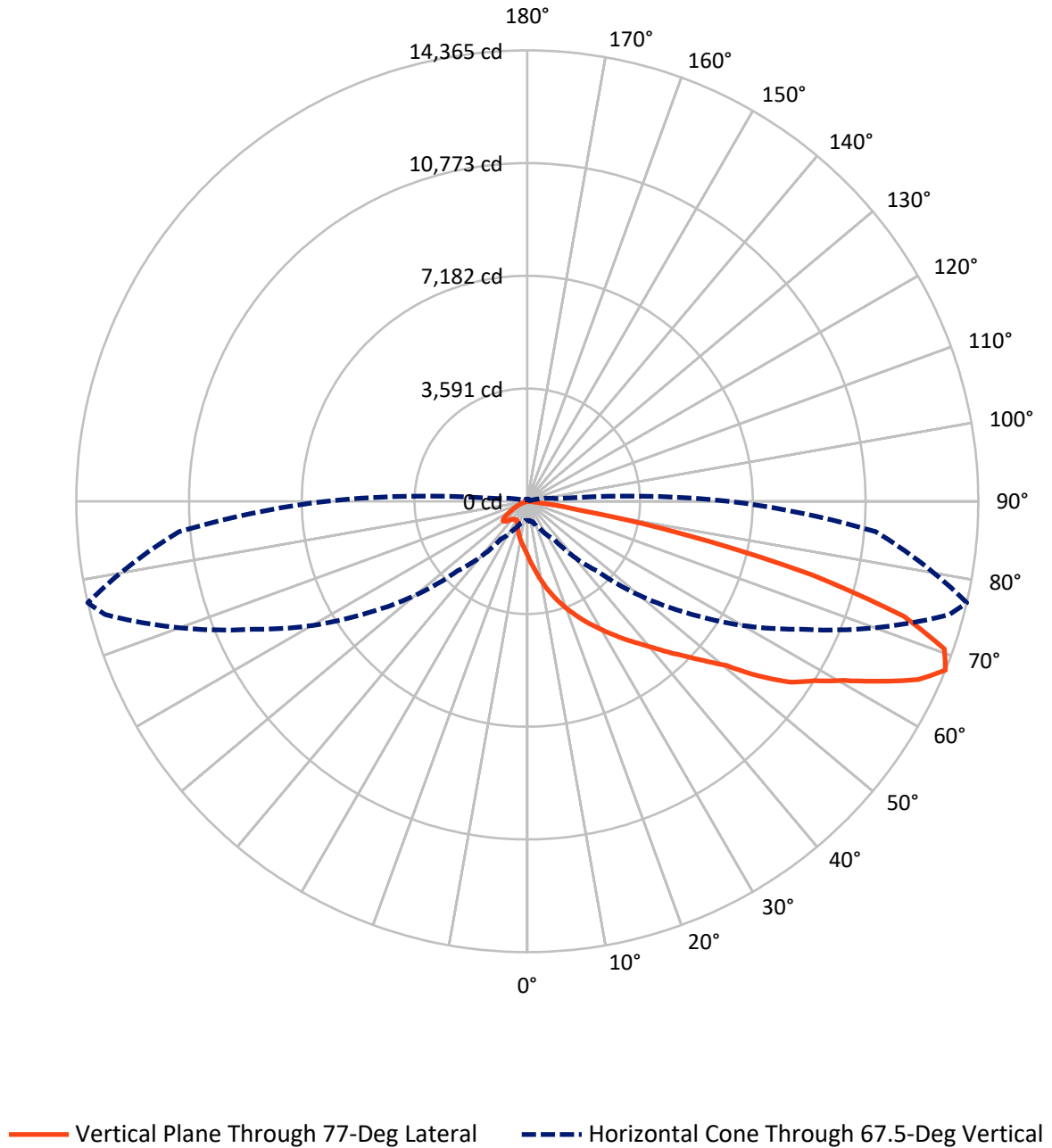
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1102.3	0.0	1102.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	13880.7	0.0	13880.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	14983.0	0.0	14983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.2
10°-20°	617.5	4.1
20°-30°	1191.7	8.0
30°-40°	2068.8	13.8
40°-50°	3003.8	20.0
50°-60°	3449.5	23.0
60°-70°	2994.8	20.0
70°-80°	1410.6	9.4
80°-90°	69.8	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°	14983.0	100.0
0°-180°	14983.0	100.0

Coefficient of Utilization



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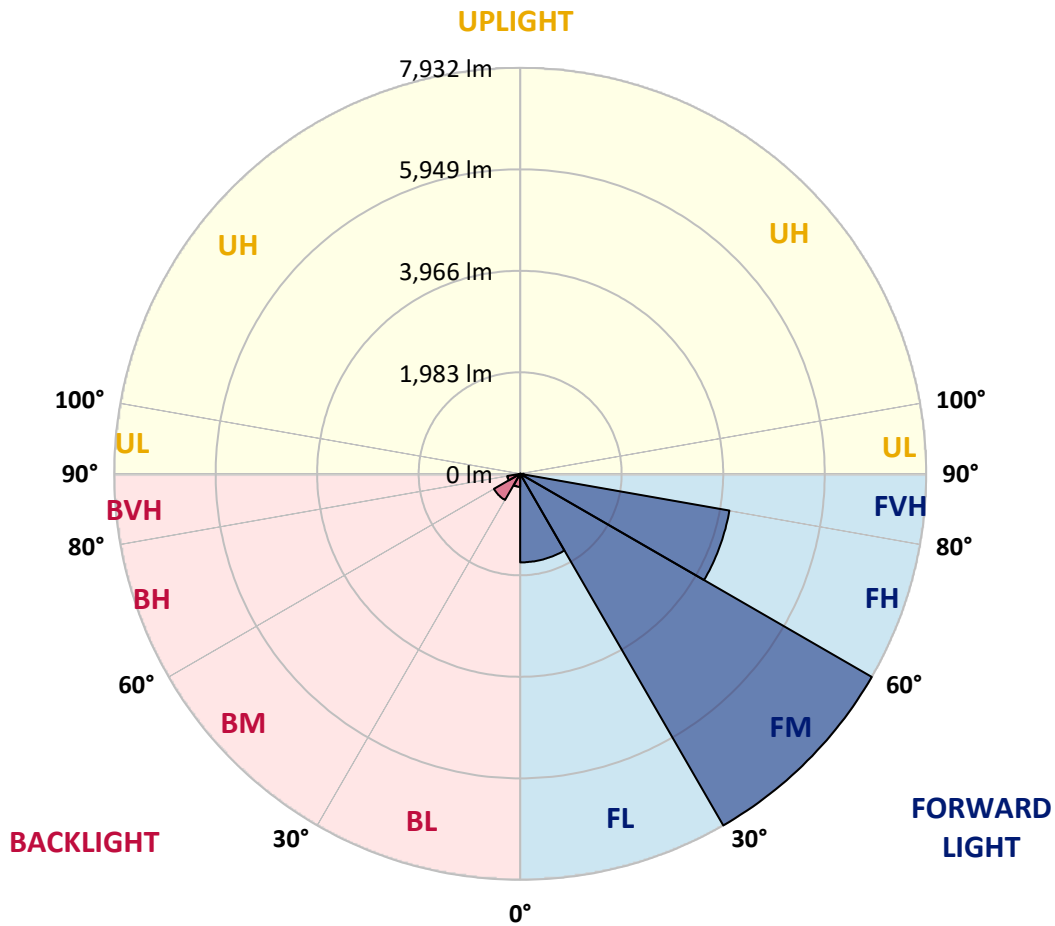
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1730.4	11.5			
FM (30°-60°)	7931.6	52.9			
FH (60°-80°)	4150.2	27.7			G2/5000
FVH (80°-90°)	68.5	0.5			G1/100
BL (0°-30°)	255.2	1.7	B1/500		
BM (30°-60°)	590.6	3.9	B1/1000		
BH (60°-80°)	255.2	1.7	B1/500		G1/500
BVH (80°-90°)	1.3	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8
2.5°	2392.1	2407.0	2385.6	2344.6	2283.2	2243.2	2145.5	2053.4	1951.1	1918.5
5°	2915.9	2928.9	2904.7	2860.1	2778.2	2700.0	2571.6	2379.0	2179.0	2114.8
7.5°	3303.9	3311.3	3302.0	3261.1	3182.9	3094.5	2951.2	2723.3	2426.5	2355.8
10°	3583.0	3607.2	3604.4	3588.6	3536.5	3464.8	3312.2	3052.7	2703.8	2612.6
12.5°	3768.1	3795.1	3810.9	3846.3	3843.5	3797.9	3663.9	3389.5	2980.1	2873.1
15°	3822.1	3850.9	3911.4	3993.3	4065.9	4089.1	3995.2	3719.8	3284.3	3147.6
17.5°	3791.4	3836.1	3908.6	4038.0	4197.1	4302.2	4292.0	4038.9	3560.7	3404.3
20°	3859.3	3902.1	3958.9	4067.7	4252.9	4443.6	4519.9	4344.1	3835.1	3671.4
22.5°	4235.2	4227.8	4233.3	4251.0	4361.7	4550.6	4707.8	4621.3	4106.8	3939.3
25°	4830.7	4797.2	4740.4	4644.6	4616.7	4707.8	4871.6	4866.9	4393.4	4213.8
27.5°	5513.6	5508.0	5374.9	5144.2	5013.9	4978.6	5056.7	5106.1	4677.1	4485.5
30°	6167.6	6182.5	6003.0	5746.2	5507.1	5368.4	5297.7	5333.1	4965.6	4778.6
32.5°	6737.1	6752.9	6557.5	6257.0	5961.1	5793.6	5644.8	5557.3	5280.0	5076.3
35°	7218.1	7233.9	7009.7	6677.5	6362.1	6210.4	6042.0	5802.9	5596.4	5406.6
37.5°	7647.9	7643.3	7342.7	7007.8	6698.0	6578.0	6489.6	6105.3	5922.0	5738.7
40°	7901.9	7921.5	7664.7	7295.3	6994.8	6907.3	6901.7	6480.3	6297.9	6120.2
42.5°	7976.4	8010.8	7824.7	7521.4	7248.8	7153.9	7299.9	6885.9	6735.2	6562.1
45°	7842.4	7875.9	7791.2	7580.9	7421.8	7360.4	7642.3	7306.5	7202.3	7031.1
47.5°	7451.6	7493.5	7513.9	7469.3	7467.4	7529.8	7949.4	7749.3	7756.8	7581.9
50°	6695.2	6765.9	6953.8	7112.0	7356.7	7663.7	8248.0	8229.4	8382.0	8231.3
52.5°	5320.0	5420.5	6068.1	6500.7	7050.6	7638.6	8576.5	8999.8	9479.0	9258.4
55°	4275.2	4275.2	4801.8	5611.3	6453.3	7473.0	8719.7	9500.4	10226.1	10174.0
57.5°	3485.3	3527.2	3863.0	4578.5	5588.9	7078.5	8808.1	9814.8	10828.0	10789.9
60°	2151.1	2241.3	2875.9	3582.1	4605.5	6376.1	8752.3	10133.0	11558.4	11589.1
62.5°	1211.4	1244.9	1527.7	2577.2	3581.1	5431.7	8325.3	10310.7	12492.5	12622.8
65°	836.4	853.2	962.0	1604.0	2482.3	4324.5	7490.7	10200.0	13428.5	13691.8
67.5°	607.6	615.9	683.8	979.7	1472.8	3135.5	6182.5	9641.8	13924.4	14364.5
70°	467.1	472.6	522.0	643.8	869.9	1935.2	4490.1	8531.8	13565.3	14091.0
72.5°	379.6	385.2	423.3	476.4	576.9	1144.4	2721.4	6928.7	11979.9	12547.4
75°	320.1	327.5	361.9	396.4	452.2	735.0	1276.5	4825.1	9009.1	9381.3
77.5°	177.7	163.8	294.0	328.4	381.5	465.2	597.3	2839.6	5045.6	5148.9
80°	110.7	114.4	233.5	264.2	293.1	234.5	273.5	1093.2	1749.2	1661.7
82.5°	6.5	14.9	179.6	190.7	201.0	100.5	103.3	371.2	421.5	387.0
85°	0.0	0.0	81.9	66.1	69.8	28.8	29.8	86.5	56.8	61.4
87.5°	0.0	0.0	0.0	1.9	0.0	2.8	5.6	7.4	2.8	3.7
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°
1727.8	0°	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8	1727.8
1816.1	2.5°	1751.0	1685.9	1553.8	1424.4	1319.3	1221.6	1151.8	1085.8	1052.3	1050.4
1933.4	5°	1804.1	1667.3	1403.0	1169.5	981.6	830.9	733.2	663.4	628.0	615.9
2077.6	7.5°	1878.5	1672.9	1270.9	946.2	724.8	595.5	539.6	517.3	509.9	501.5
2240.4	10°	1972.5	1685.9	1152.8	762.0	571.3	506.1	483.8	474.5	468.9	463.3
2423.7	12.5°	2077.6	1698.0	1035.5	632.7	502.4	468.9	453.1	441.9	434.5	428.0
2611.6	15°	2179.9	1705.4	913.7	542.4	467.1	440.1	423.3	411.2	401.0	393.6
2795.9	17.5°	2281.4	1715.7	799.2	488.5	438.2	411.2	394.5	379.6	371.2	362.9
2989.4	20°	2393.9	1713.8	691.3	450.3	409.4	382.4	364.7	350.8	342.4	333.1
3194.1	22.5°	2498.1	1704.5	596.4	417.8	379.6	353.6	334.0	320.1	311.7	304.2
3403.4	25°	2618.2	1697.1	517.3	388.0	351.7	325.6	304.2	291.2	281.9	275.4
3613.7	27.5°	2733.5	1685.9	459.6	361.0	324.7	299.6	279.1	264.2	255.9	251.2
3830.5	30°	2847.0	1683.1	438.2	334.9	300.5	275.4	254.9	241.0	234.5	232.6
4068.7	32.5°	2983.8	1690.5	447.5	325.6	278.2	253.1	233.5	223.3	216.8	216.8
4333.8	35°	3129.9	1688.7	461.5	334.0	263.3	230.7	215.9	209.3	202.8	202.8
4627.8	37.5°	3313.2	1691.5	472.6	348.0	257.7	212.1	203.8	195.4	191.7	191.7
4949.7	40°	3586.7	1783.6	467.1	360.1	255.9	199.1	182.4	179.6	176.8	176.8
5313.5	42.5°	3921.7	1983.6	474.5	361.0	254.9	189.8	167.5	173.1	166.5	165.6
5723.8	45°	4288.2	2202.3	522.0	341.5	254.0	185.2	160.0	166.5	156.3	156.3
6199.3	47.5°	4652.0	2419.1	570.3	313.5	251.2	184.2	153.5	149.8	147.0	147.9
6818.9	50°	5153.5	2595.8	588.9	275.4	244.7	182.4	141.4	142.4	140.5	142.4
7692.6	52.5°	5699.7	2633.0	566.6	232.6	226.1	176.8	133.0	136.8	135.8	137.7
8307.6	55°	6040.2	2593.0	468.0	193.5	197.2	154.4	124.7	132.1	132.1	132.1
8908.6	57.5°	6391.9	2422.8	332.2	157.2	163.8	126.5	117.2	127.5	126.5	125.6
9632.5	60°	6644.9	2147.4	218.6	129.3	130.3	104.2	108.9	120.0	119.1	114.4
10378.7	62.5°	6833.8	1843.1	140.5	109.8	99.6	94.0	99.6	108.9	105.1	94.9
11011.3	65°	6812.4	1421.7	107.9	94.0	81.9	81.9	86.5	94.9	83.7	67.0
11132.3	67.5°	6415.1	962.0	89.3	79.1	68.8	67.9	71.6	79.1	71.6	56.8
10512.6	70°	5705.2	629.0	71.6	61.4	54.9	50.2	57.7	67.9	60.5	45.6
8949.6	72.5°	4630.6	383.3	54.0	44.7	40.0	32.6	45.6	55.8	48.4	33.5
6223.5	75°	2995.9	195.4	37.2	28.8	21.4	19.5	33.5	41.9	33.5	20.5
2761.4	77.5°	1146.3	81.9	20.5	13.0	11.2	9.3	18.6	25.1	14.0	4.7
535.0	80°	220.5	34.4	10.2	6.5	5.6	3.7	2.8	1.9	0.0	0.0
94.9	82.5°	38.1	11.2	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
18.6	85°	13.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.5	87.5°	4.7	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>
1727.8
1048.6
614.1
499.6
461.5
426.1
392.6
361.9
332.2
303.3
274.5
251.2
231.7
216.8
202.8
191.7
176.8
164.7
156.3
147.9
142.4
137.7
132.1
125.6
114.4
93.0
65.1
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31.6
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