

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: P956414

Luminaire Tested: **GALN-SB9A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956414
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-SB9A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA 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: 30082 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

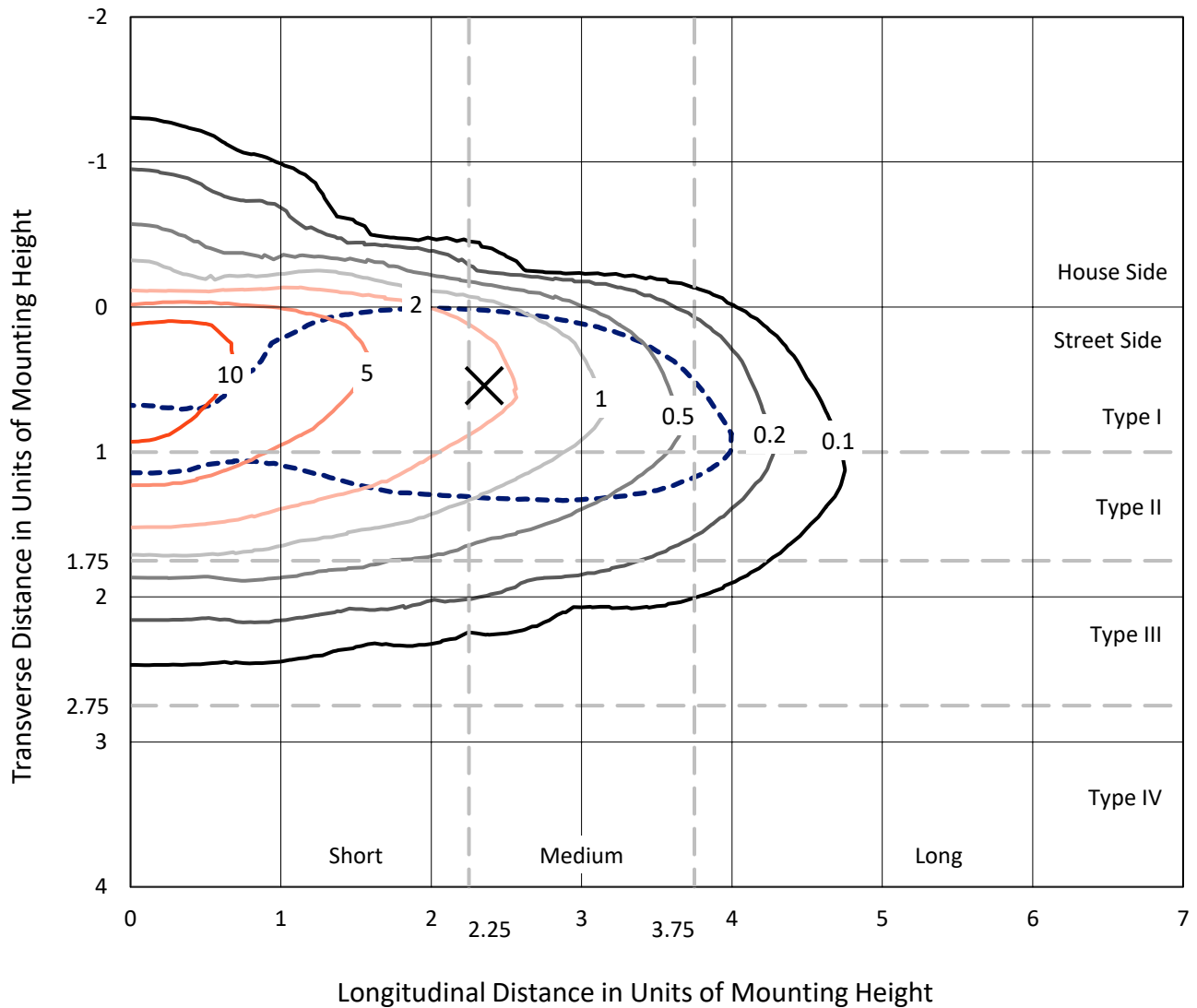
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

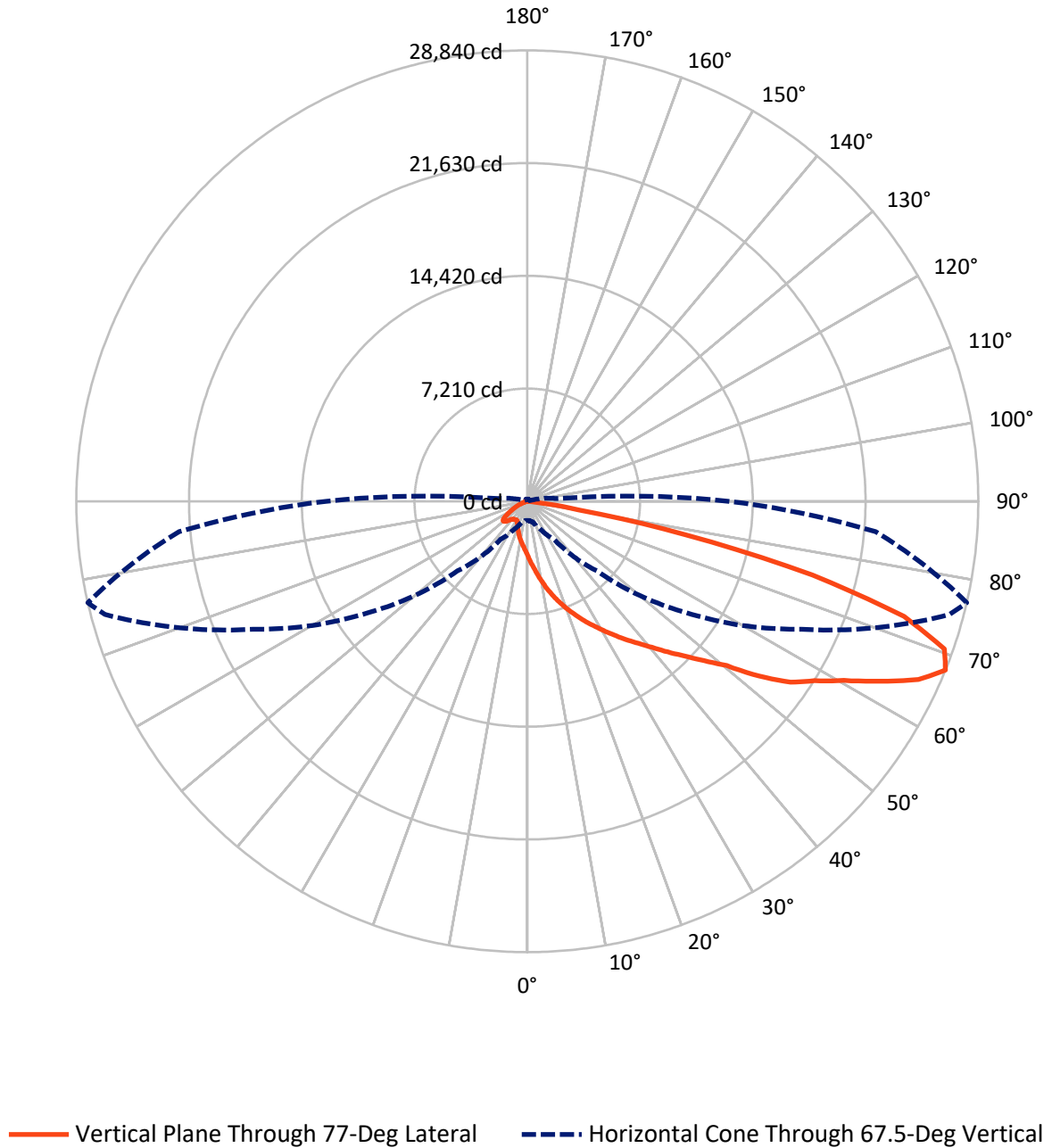
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	2213.1	0.0	2213.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	27868.9	0.0	27868.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	30082.0	0.0	30082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	1.2
10°-20°	1239.9	4.1
20°-30°	2392.6	8.0
30°-40°	4153.7	13.8
40°-50°	6030.9	20.0
50°-60°	6925.8	23.0
60°-70°	6012.9	20.0
70°-80°	2832.1	9.4
80°-90°	140.1	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°	30082.0	100.0
0°-180°	30082.0	100.0

Coefficient of Utilization



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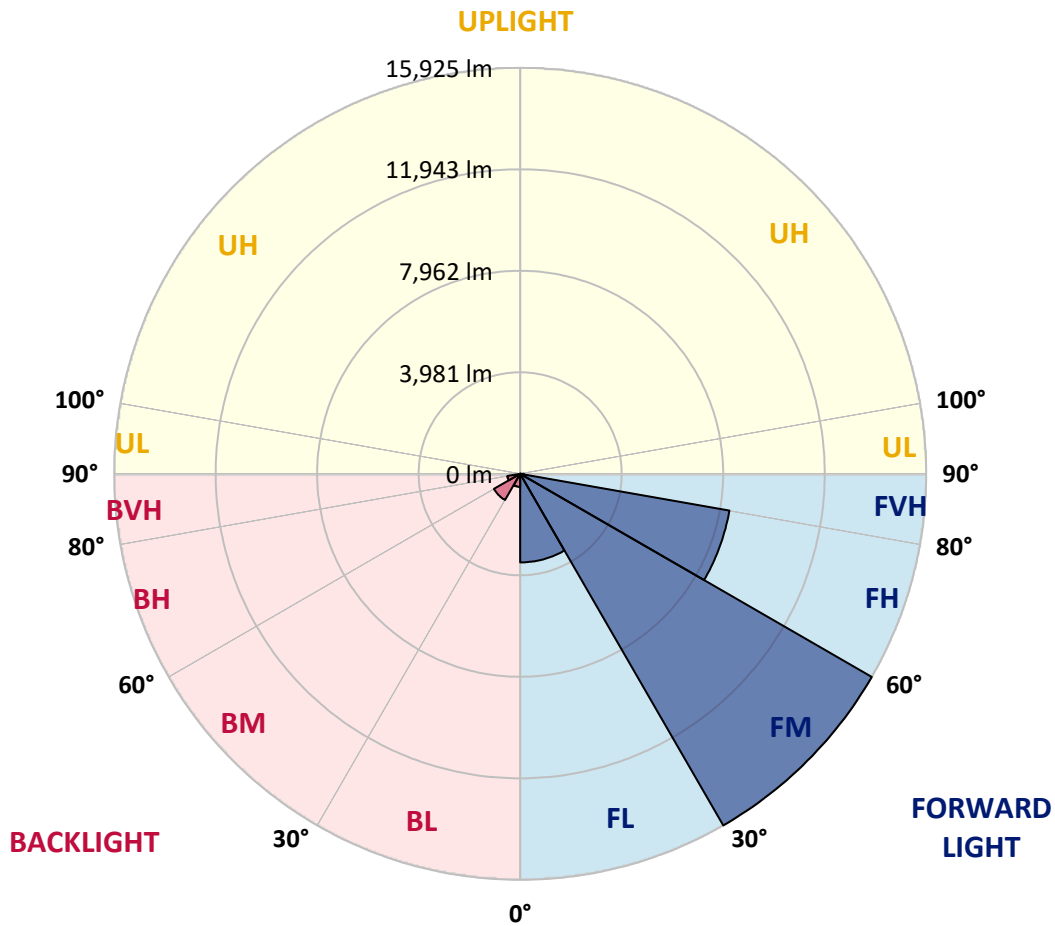
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3474.1	11.5			
FM (30°-60°)	15924.6	52.9			
FH (60°-80°)	8332.6	27.7			G4/12000
FVH (80°-90°)	137.5	0.5			G2/225
BL (0°-30°)	512.4	1.7	B2/1000		
BM (30°-60°)	1185.8	3.9	B2/2500		
BH (60°-80°)	512.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9
2.5°	4802.7	4832.5	4789.6	4707.4	4584.1	4503.8	4307.6	4122.7	3917.2	3851.8
5°	5854.3	5880.5	5831.9	5742.3	5577.9	5421.0	5163.2	4776.5	4374.9	4246.0
7.5°	6633.3	6648.3	6629.6	6547.4	6390.5	6213.0	5925.3	5467.7	4871.8	4729.8
10°	7193.7	7242.3	7236.7	7204.9	7100.3	6956.5	6650.1	6128.9	5428.4	5245.4
12.5°	7565.4	7619.6	7651.4	7722.4	7716.8	7625.2	7356.2	6805.2	5983.2	5768.4
15°	7673.8	7731.7	7853.1	8017.5	8163.2	8209.9	8021.2	7468.3	6594.1	6319.5
17.5°	7612.1	7701.8	7847.5	8107.2	8426.6	8637.7	8617.1	8109.0	7148.9	6835.1
20°	7748.5	7834.4	7948.4	8166.9	8538.7	8921.6	9074.8	8721.7	7699.9	7371.2
22.5°	8503.2	8488.2	8499.5	8534.9	8757.2	9136.4	9452.1	9278.4	8245.4	7909.2
25°	9698.7	9631.5	9517.5	9325.1	9269.1	9452.1	9780.9	9771.6	8820.7	8460.2
27.5°	11069.8	11058.6	10791.5	10328.2	10066.7	9995.7	10152.6	10251.6	9390.5	9005.7
30°	12383.0	12412.9	12052.4	11536.8	11056.8	10778.4	10636.5	10707.4	9969.6	9594.1
32.5°	13526.3	13558.0	13165.7	12562.4	11968.3	11632.1	11333.2	11157.6	10601.0	10191.9
35°	14492.0	14523.8	14073.6	13406.7	12773.5	12469.0	12130.9	11650.8	11236.1	10855.0
37.5°	15355.1	15345.7	14742.3	14069.9	13447.8	13206.8	13029.4	12257.9	11889.9	11521.9
40°	15865.0	15904.2	15388.7	14647.1	14043.7	13868.1	13856.9	13010.7	12644.6	12287.8
42.5°	16014.5	16083.6	15710.0	15101.0	14553.7	14363.1	14656.4	13825.2	13522.5	13175.1
45°	15745.5	15812.7	15642.7	15220.6	14901.1	14777.8	15343.8	14669.5	14460.3	14116.6
47.5°	14960.9	15045.0	15086.1	14996.4	14992.7	15117.8	15960.3	15558.7	15573.6	15222.4
50°	13442.2	13584.2	13961.5	14279.1	14770.4	15386.8	16559.9	16522.6	16828.9	16526.3
52.5°	10681.3	10883.0	12183.2	13051.8	14155.8	15336.4	17219.3	18069.3	19031.3	18588.6
55°	8583.5	8583.5	9640.8	11266.0	12956.5	15003.9	17507.0	19074.3	20531.3	20426.7
57.5°	6997.6	7081.6	7756.0	9192.5	11221.1	14211.8	17684.5	19705.7	21739.9	21663.3
60°	4318.8	4500.0	5774.0	7191.8	9246.7	12801.5	17572.4	20344.5	23206.3	23267.9
62.5°	2432.2	2499.4	3067.3	5174.4	7190.0	10905.4	16715.0	20701.3	25081.8	25343.3
65°	1679.3	1713.0	1931.5	3220.5	4983.9	8682.5	15039.4	20479.0	26961.0	27489.7
67.5°	1219.8	1236.6	1373.0	1967.0	2957.1	6295.2	12412.9	19358.2	27956.7	28840.2
70°	937.7	948.9	1048.0	1292.7	1746.6	3885.5	9015.0	17129.7	27235.6	28291.0
72.5°	762.1	773.4	849.9	956.4	1158.2	2297.7	5463.9	13911.1	24052.5	25192.0
75°	642.6	657.5	726.7	795.8	907.9	1475.7	2562.9	9687.5	18088.0	18835.2
77.5°	356.8	328.8	590.3	659.4	765.9	934.0	1199.3	5701.2	10130.2	10337.6
80°	222.3	229.8	468.9	530.5	588.4	470.7	549.2	2194.9	3511.9	3336.3
82.5°	13.1	29.9	360.5	382.9	403.5	201.7	207.3	745.3	846.2	777.1
85°	0.0	0.0	164.4	132.6	140.1	57.9	59.8	173.7	113.9	123.3
87.5°	0.0	0.0	0.0	3.7	0.0	5.6	11.2	14.9	5.6	7.5
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°
3468.9	0°	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9	3468.9
3646.4	2.5°	3515.6	3384.8	3119.6	2859.9	2648.8	2452.7	2312.6	2180.0	2112.7	2109.0
3881.7	5°	3622.1	3347.5	2817.0	2348.1	1970.8	1668.1	1472.0	1331.9	1260.9	1236.6
4171.3	7.5°	3771.5	3358.7	2551.7	1899.8	1455.2	1195.5	1083.4	1038.6	1023.7	1006.9
4498.2	10°	3960.2	3384.8	2314.5	1529.9	1147.0	1016.2	971.4	952.7	941.5	930.3
4866.2	12.5°	4171.3	3409.1	2079.1	1270.2	1008.7	941.5	909.7	887.3	872.4	859.3
5243.5	15°	4376.8	3424.1	1834.4	1089.1	937.7	883.6	849.9	825.7	805.1	790.2
5613.4	17.5°	4580.4	3444.6	1604.6	980.7	879.8	825.7	792.0	762.1	745.3	728.5
6001.9	20°	4806.4	3440.9	1387.9	904.1	821.9	767.8	732.3	704.2	687.4	668.7
6412.9	22.5°	5015.6	3422.2	1197.4	838.7	762.1	709.8	670.6	642.6	625.8	610.8
6833.2	25°	5256.6	3407.3	1038.6	779.0	706.1	653.8	610.8	584.7	566.0	552.9
7255.4	27.5°	5488.2	3384.8	922.8	724.8	651.9	601.5	560.4	530.5	513.7	504.4
7690.6	30°	5716.1	3379.2	879.8	672.5	603.4	552.9	511.8	483.8	470.7	467.0
8168.8	32.5°	5990.7	3394.2	898.5	653.8	558.5	508.1	468.9	448.3	435.2	435.2
8701.2	35°	6284.0	3390.4	926.5	670.6	528.6	463.3	433.4	420.3	407.2	407.2
9291.5	37.5°	6652.0	3396.0	948.9	698.6	517.4	425.9	409.1	392.3	384.8	384.8
9937.8	40°	7201.2	3581.0	937.7	722.9	513.7	399.8	366.1	360.5	354.9	354.9
10668.2	42.5°	7873.7	3982.6	952.7	724.8	511.8	381.1	336.2	347.5	334.4	332.5
11492.0	45°	8609.7	4421.6	1048.0	685.6	510.0	371.7	321.3	334.4	313.8	313.8
12446.6	47.5°	9340.1	4856.8	1145.1	629.5	504.4	369.9	308.2	300.7	295.1	297.0
13690.7	50°	10346.9	5211.8	1182.5	552.9	491.3	366.1	283.9	285.8	282.1	285.8
15444.7	52.5°	11443.4	5286.5	1137.6	467.0	453.9	354.9	267.1	274.6	272.7	276.5
16679.5	55°	12127.1	5206.1	939.6	388.5	396.0	310.1	250.3	265.3	265.3	265.3
17886.2	57.5°	12833.2	4864.3	666.9	315.7	328.8	254.0	235.4	255.9	254.0	252.2
19339.5	60°	13341.3	4311.4	439.0	259.7	261.5	209.2	218.6	241.0	239.1	229.8
20837.7	62.5°	13720.5	3700.5	282.1	220.4	199.9	188.7	199.9	218.6	211.1	190.5
22107.9	65°	13677.6	2854.3	216.7	188.7	164.4	164.4	173.7	190.5	168.1	134.5
22350.8	67.5°	12879.9	1931.5	179.3	158.8	138.2	136.4	143.8	158.8	143.8	113.9
21106.7	70°	11454.6	1262.8	143.8	123.3	110.2	100.9	115.8	136.4	121.4	91.5
17968.4	72.5°	9297.1	769.6	108.3	89.7	80.3	65.4	91.5	112.1	97.1	67.2
12495.1	75°	6015.0	392.3	74.7	57.9	43.0	39.2	67.2	84.1	67.2	41.1
5544.3	77.5°	2301.4	164.4	41.1	26.2	22.4	18.7	37.4	50.4	28.0	9.3
1074.1	80°	442.7	69.1	20.5	13.1	11.2	7.5	5.6	3.7	0.0	0.0
190.5	82.5°	76.6	22.4	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
37.4	85°	26.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.1	87.5°	9.3	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>
3468.9
2105.2
1232.9
1003.1
926.5
855.5
788.3
726.7
666.9
609.0
551.1
504.4
465.1
435.2
407.2
384.8
354.9
330.6
313.8
297.0
285.8
276.5
265.3
252.2
229.8
186.8
130.8
110.2
87.8
63.5
35.5
7.5
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