

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: P956441

Luminaire Tested: **GALN-SB9A-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28280 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

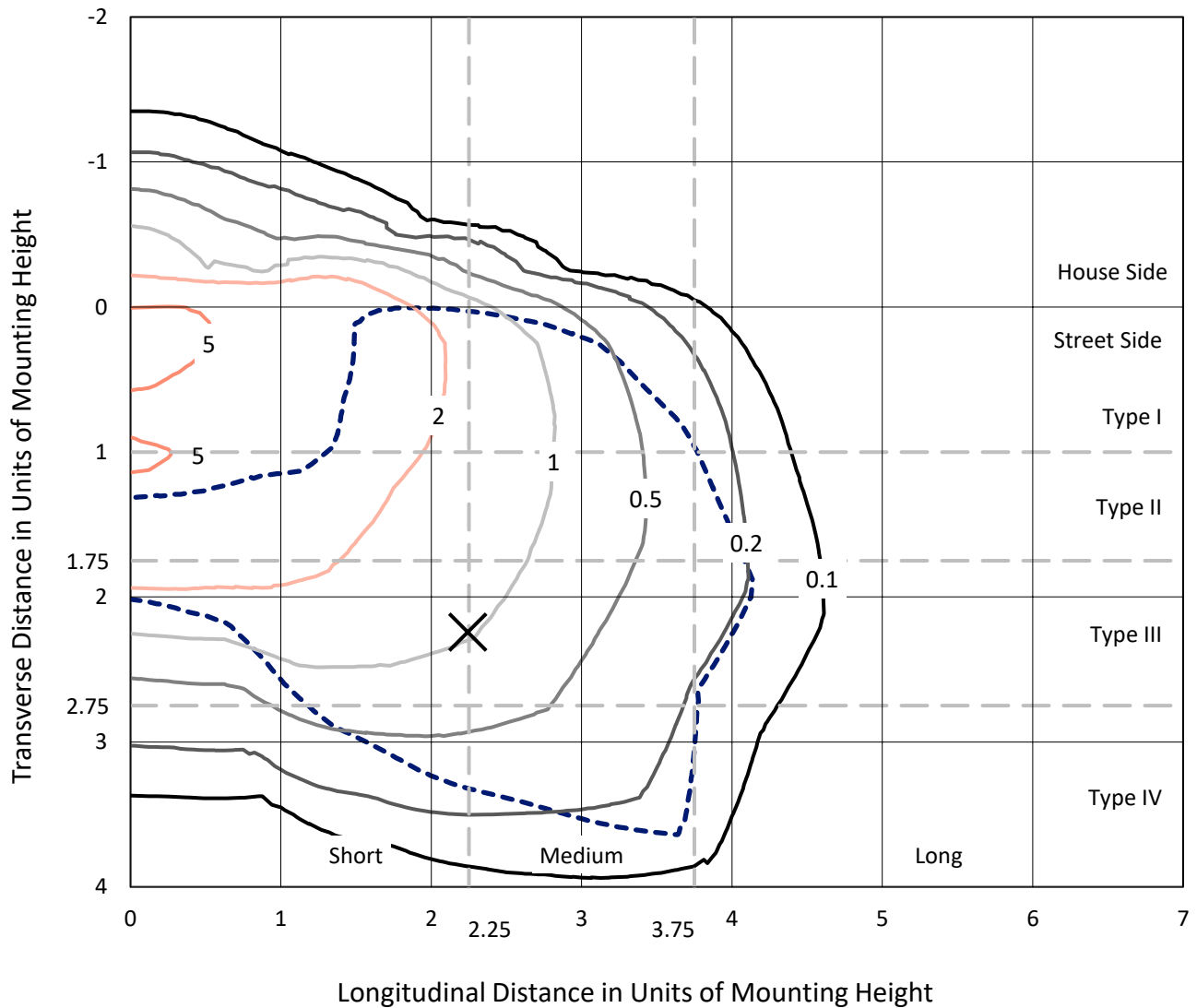
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

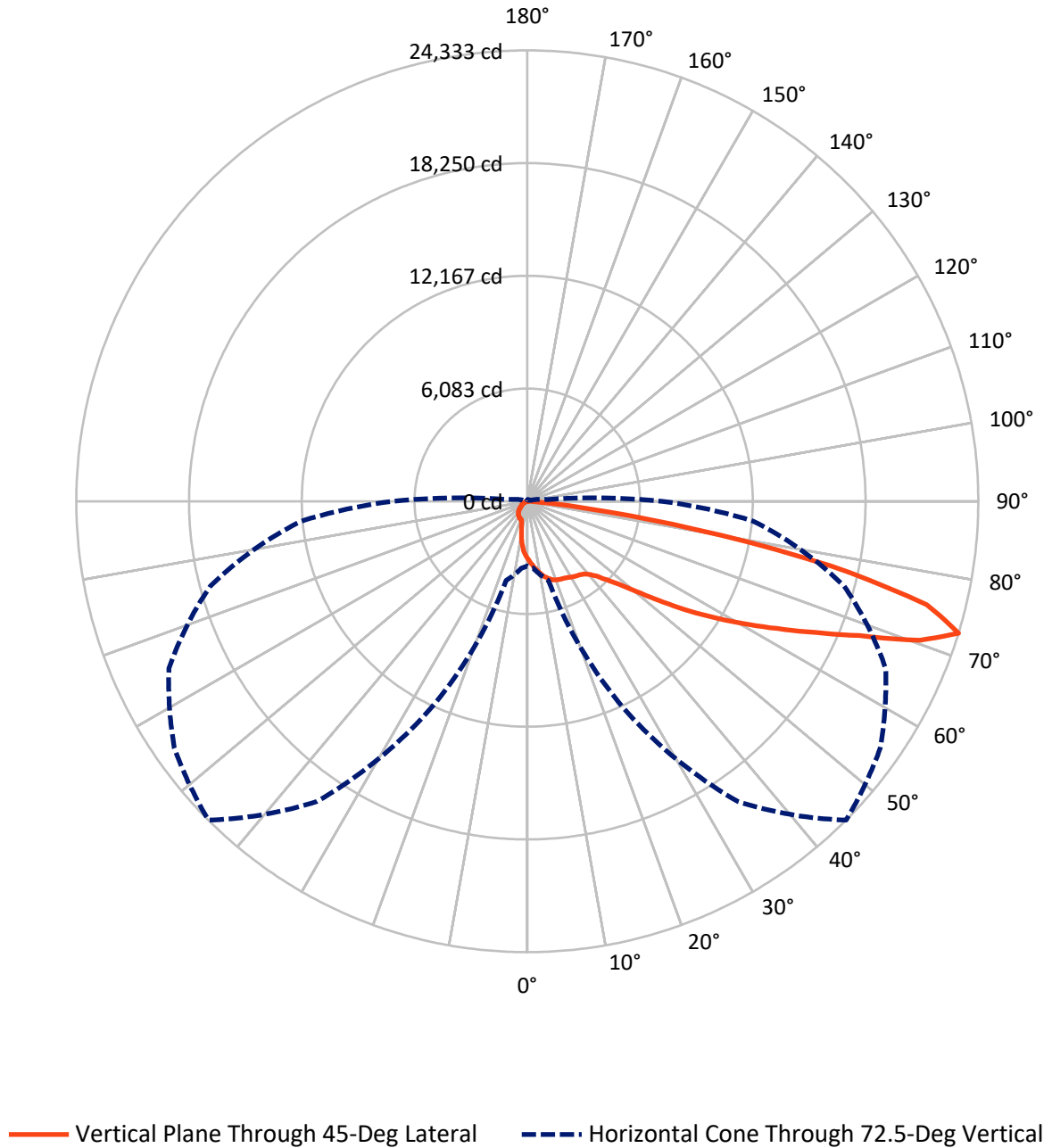
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.4	0.0	2971.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25308.6	0.0	25308.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	28280.0	0.0	28280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	1.0
10°-20°	853.1	3.0
20°-30°	1401.0	5.0
30°-40°	1986.9	7.0
40°-50°	3284.1	11.6
50°-60°	5899.5	20.9
60°-70°	8191.8	29.0
70°-80°	5942.1	21.0
80°-90°	429.6	1.5
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°	28280.0	100.0
0°-180°	28280.0	100.0

Coefficient of Utilization



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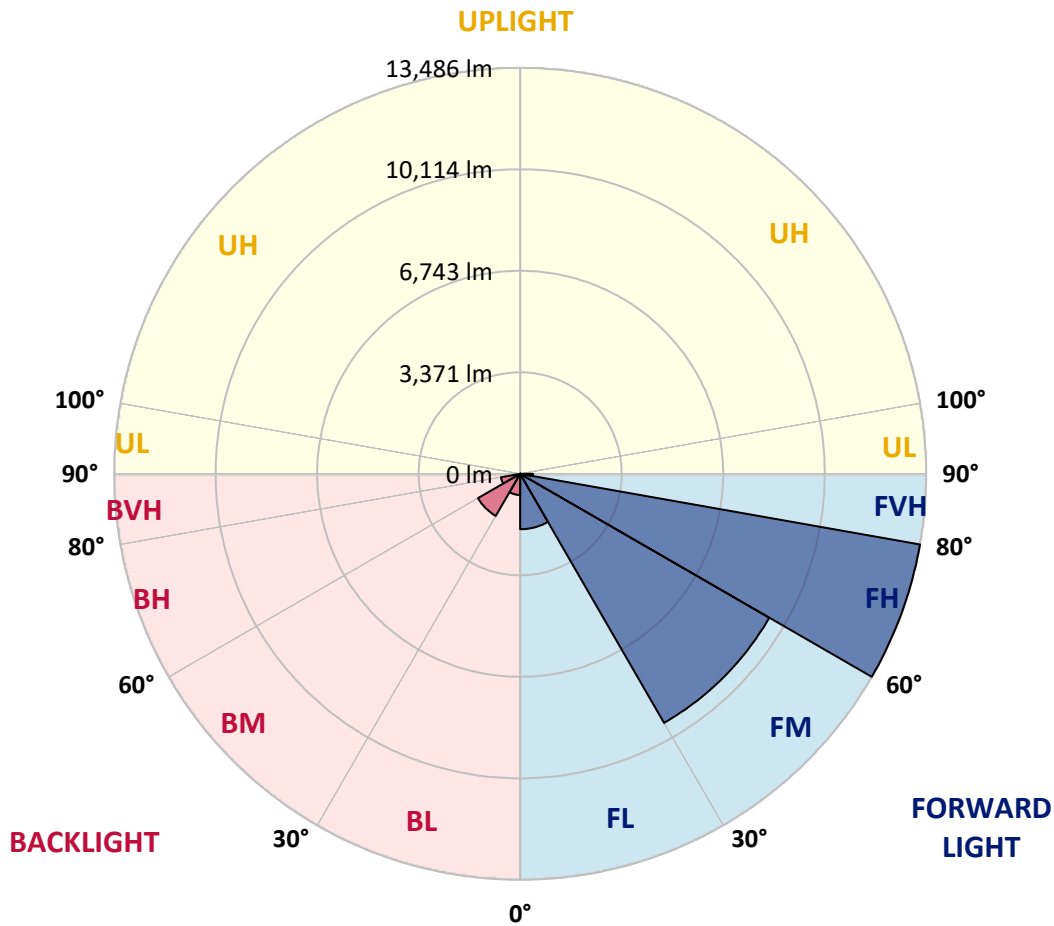
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.2	6.5			
FM (30°-60°)	9554.5	33.8			
FH (60°-80°)	13485.9	47.7			G5
FVH (80°-90°)	426.0	1.5			G3/500
BL (0°-30°)	703.8	2.5	B2/1000		
BM (30°-60°)	1616.0	5.7	B2/2500		
BH (60°-80°)	648.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.6	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1
2.5°	3383.8	3389.6	3385.7	3362.6	3324.0	3302.7	3291.2	3252.6	3227.5	3183.1
5°	3694.6	3717.8	3704.2	3657.9	3584.6	3532.5	3517.0	3437.9	3366.4	3283.4
7.5°	4024.7	4036.3	4011.2	3951.3	3852.9	3764.1	3750.6	3640.5	3526.7	3399.3
10°	4310.4	4323.9	4285.3	4198.4	4086.4	3976.4	3957.1	3835.5	3700.4	3544.0
12.5°	4549.7	4563.2	4513.0	4408.8	4285.3	4171.4	4152.1	4024.7	3876.0	3702.3
15°	4731.2	4756.3	4688.7	4576.7	4443.6	4329.7	4320.0	4194.5	4049.8	3856.7
17.5°	4837.3	4862.4	4798.7	4663.6	4549.7	4453.2	4441.6	4337.4	4202.3	4017.0
20°	4854.7	4877.9	4810.3	4692.6	4598.0	4520.8	4515.0	4439.7	4341.2	4163.7
22.5°	4802.6	4831.5	4769.8	4675.2	4609.6	4569.0	4561.3	4518.8	4462.9	4312.3
25°	4748.5	4771.7	4725.4	4642.4	4607.6	4603.8	4609.6	4601.8	4590.3	4462.9
27.5°	4744.7	4769.8	4717.7	4638.5	4619.2	4659.7	4665.5	4702.2	4711.9	4599.9
30°	4777.5	4794.9	4744.7	4661.7	4652.0	4744.7	4746.6	4812.2	4827.7	4715.7
32.5°	4848.9	4868.2	4818.0	4696.4	4682.9	4812.2	4818.0	4904.9	4930.0	4839.3
35°	5016.9	5040.0	4982.1	4792.9	4744.7	4875.9	4893.3	4995.6	5045.8	4970.5
37.5°	5435.7	5368.2	5289.0	4987.9	4885.6	4976.3	5005.3	5125.0	5213.7	5126.9
40°	6476.2	6263.8	6016.8	5319.9	5132.7	5190.6	5213.7	5333.4	5455.0	5370.1
42.5°	8037.8	7786.8	7389.2	6084.3	5505.2	5534.2	5551.5	5655.8	5827.6	5760.0
45°	9429.5	9338.8	8933.4	7389.2	6202.1	6059.2	6080.5	6134.5	6387.4	6362.3
47.5°	10498.9	10446.8	10134.1	8887.1	7379.5	6702.0	6761.8	6786.9	7151.8	7240.6
50°	11321.2	11301.9	11022.0	10219.0	8918.0	7649.8	7671.0	7617.0	8163.2	8383.3
52.5°	12097.2	12162.8	11956.3	11456.3	10560.7	8891.0	8887.1	8632.3	9369.7	9701.7
55°	12797.9	12821.1	12842.3	12718.8	12213.0	10304.0	10267.3	9850.3	10769.2	11112.7
57.5°	13456.1	13465.8	13655.0	13907.8	13932.9	11821.2	11753.6	11253.7	12298.0	12543.1
60°	13898.2	13942.6	14342.1	15044.8	15351.7	13386.6	13350.0	12840.4	13853.8	13967.7
62.5°	13261.2	13531.4	14539.0	15932.7	16691.3	15122.0	15104.6	14625.9	15490.7	15398.0
65°	10734.4	11191.9	12963.9	16533.0	18005.9	17060.0	17085.1	16575.5	17172.0	16870.8
67.5°	7508.9	7991.4	10087.8	16581.3	19474.8	19335.8	19480.6	18681.5	18957.5	18281.9
70°	5192.5	5441.5	6806.2	15542.8	20619.5	22470.6	22466.8	21268.1	20733.4	18924.7
72.5°	3491.9	3621.2	4420.4	12330.8	19777.9	24333.4	24221.4	23244.7	21331.8	17698.9
75°	1472.8	1567.4	2046.1	6929.8	15647.0	22262.2	21959.1	20542.3	18953.6	13936.8
77.5°	467.1	507.7	806.9	2480.4	8618.8	16733.8	16413.4	12828.8	12703.3	6991.6
80°	222.0	258.7	453.6	996.0	3391.5	9101.4	9057.0	5819.9	5464.7	1887.8
82.5°	96.5	113.9	250.9	532.8	1517.2	3246.8	3312.4	1980.5	1638.8	716.1
85°	30.9	40.5	115.8	245.1	640.9	806.9	797.2	471.0	660.2	389.9
87.5°	0.0	0.0	38.6	56.0	65.6	46.3	52.1	40.5	183.4	108.1
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°
3098.1	0°	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1	3098.1
3136.7	2.5°	3113.6	3082.7	3028.6	2978.5	2934.1	2889.7	2862.6	2824.0	2820.2	2820.2
3186.9	5°	3134.8	3084.6	2988.1	2885.8	2768.1	2656.1	2544.1	2436.0	2401.3	2376.2
3268.0	7.5°	3196.6	3117.4	2964.9	2770.0	2546.1	2300.9	2129.1	1943.8	1872.4	1833.8
3376.1	10°	3285.4	3177.3	2945.6	2604.0	2241.1	1907.1	1662.0	1461.2	1384.0	1351.2
3493.8	12.5°	3383.8	3250.6	2910.9	2397.4	1907.1	1507.6	1268.2	1175.6	1164.0	1164.0
3634.8	15°	3501.6	3339.4	2851.1	2154.2	1557.8	1192.9	1108.0	1111.9	1123.4	1131.2
3771.8	17.5°	3623.2	3434.0	2756.5	1882.0	1248.9	1073.2	1075.2	1081.0	1090.6	1098.3
3920.4	20°	3754.4	3528.6	2631.0	1592.5	1071.3	1038.5	1044.3	1050.1	1057.8	1061.7
4059.4	22.5°	3895.3	3617.4	2482.4	1308.7	1011.5	1009.5	1011.5	1017.3	1026.9	1026.9
4221.6	25°	4045.9	3715.8	2312.5	1102.2	980.6	980.6	984.5	988.3	996.0	996.0
4377.9	27.5°	4200.3	3806.6	2133.0	994.1	953.6	951.6	951.6	957.4	961.3	963.2
4532.3	30°	4370.2	3912.7	1953.5	970.9	932.3	922.7	916.9	920.8	924.6	926.5
4694.5	32.5°	4543.9	4015.0	1793.3	980.6	911.1	893.7	874.4	870.6	870.6	878.3
4862.4	35°	4737.0	4127.0	1669.7	1013.4	899.5	851.3	820.4	803.0	804.9	816.5
5063.2	37.5°	4968.6	4262.1	1579.0	1042.4	891.8	803.0	752.8	731.6	718.1	731.6
5339.2	40°	5271.7	4460.9	1513.4	1065.5	882.1	747.0	679.5	644.7	619.6	627.3
5767.7	42.5°	5717.6	4773.6	1488.3	1067.5	860.9	681.4	604.2	557.9	521.2	523.1
6412.5	45°	6343.0	5267.8	1617.6	1042.4	814.6	610.0	525.0	463.3	440.1	434.3
7375.7	47.5°	7200.0	5987.8	1916.8	990.2	747.0	540.5	447.8	395.7	378.3	368.7
8640.0	50°	8348.6	6912.4	2248.8	932.3	679.5	474.9	384.1	351.3	339.7	330.1
10139.9	52.5°	9680.5	7850.5	2521.0	874.4	611.9	416.9	343.6	324.3	314.6	306.9
11587.6	55°	10902.3	8497.2	2505.5	812.7	546.3	370.6	314.6	303.1	291.5	283.8
12834.6	57.5°	11662.9	8587.9	2065.4	745.1	471.0	333.9	287.6	279.9	266.4	256.7
13913.6	60°	12012.3	8070.6	1447.7	656.3	395.7	299.2	258.7	254.8	237.4	223.9
14934.7	62.5°	12076.0	7109.3	965.2	546.3	330.1	266.4	229.7	223.9	200.8	177.6
15764.8	65°	11817.3	5734.9	667.9	426.6	281.8	231.6	196.9	185.3	160.2	137.1
15961.7	67.5°	10998.9	4026.6	465.2	306.9	239.4	183.4	156.4	152.5	133.2	113.9
14957.9	70°	9499.0	2295.1	310.8	229.7	189.2	125.5	123.5	127.4	108.1	92.7
12220.7	72.5°	7283.0	1050.1	193.0	167.9	129.3	84.9	98.4	100.4	83.0	69.5
7624.7	75°	4287.2	449.8	121.6	108.1	65.6	56.0	71.4	73.4	56.0	44.4
2787.4	77.5°	1459.3	169.9	77.2	63.7	32.8	30.9	46.3	46.3	30.9	17.4
559.8	80°	332.0	63.7	38.6	25.1	15.4	13.5	15.4	13.5	7.7	1.9
171.8	82.5°	94.6	25.1	15.4	9.7	5.8	5.8	1.9	0.0	0.0	0.0
59.8	85°	27.0	11.6	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
21.2	87.5°	11.6	1.9	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>
3098.1
2829.8
2387.8
1839.6
1351.2
1164.0
1131.2
1098.3
1063.6
1030.8
998.0
965.2
930.4
884.1
822.3
727.7
623.5
515.4
426.6
362.9
328.2
305.0
279.9
254.8
220.1
166.0
129.3
108.1
84.9
<i>61.8</i>
38.6
13.5
0.0
0.0
0.0
0.0
0.0

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