

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: P955074

Luminaire Tested: **GALN-SB8A-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28885 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

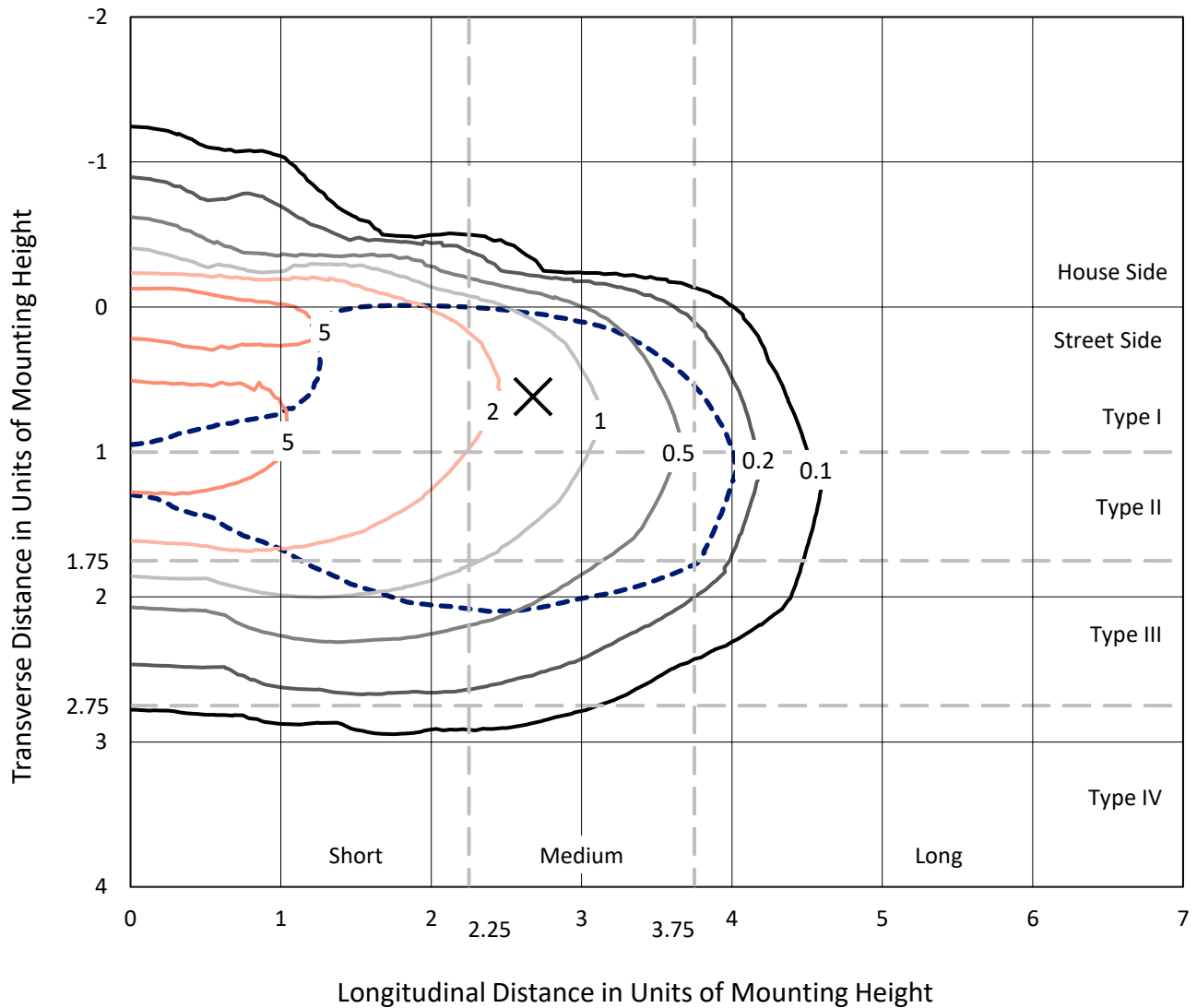
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955074
 CATALOG NUMBER: GALN-SB8A-850-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

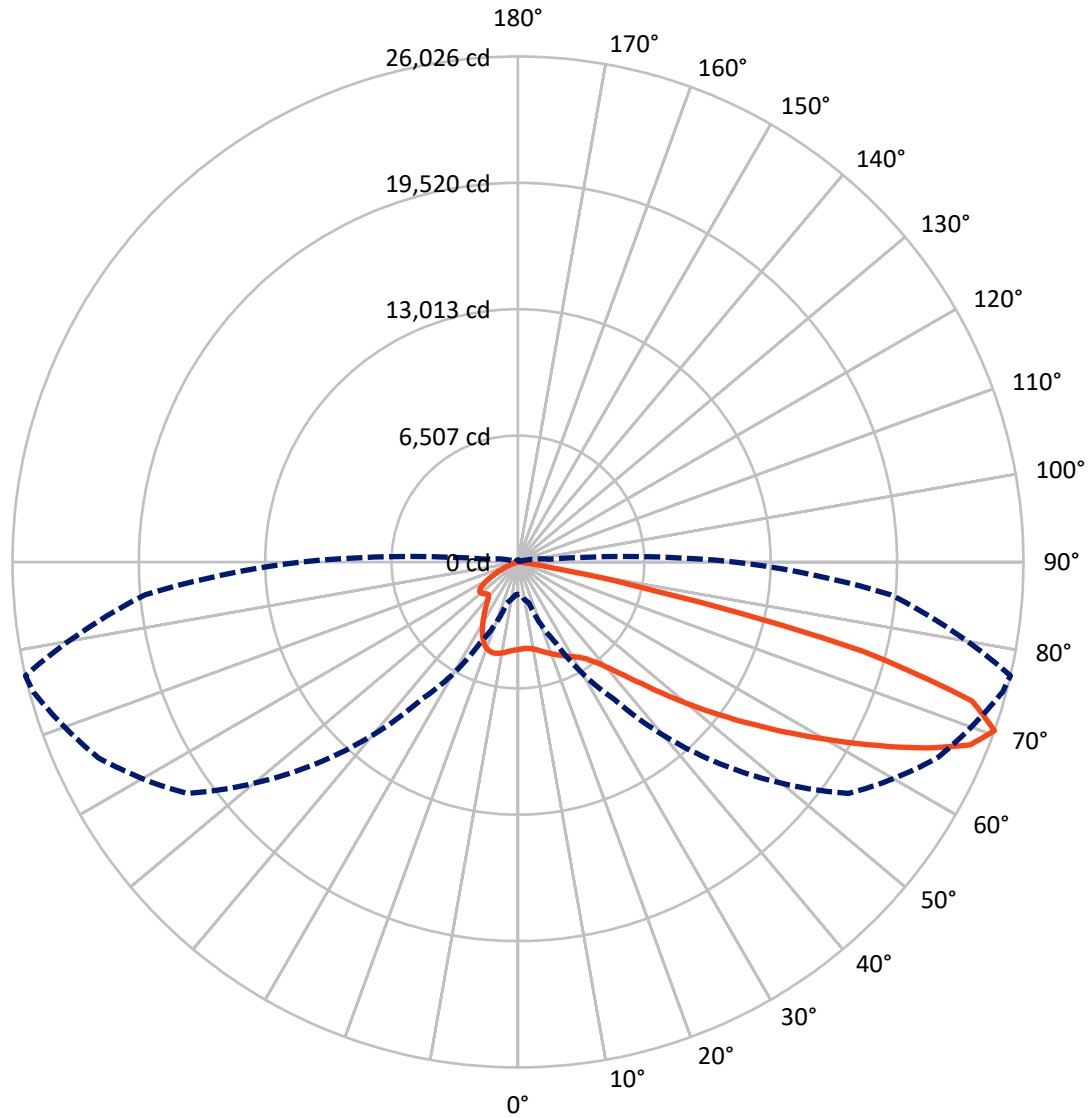
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P955074
CATALOG NUMBER: GALN-SB8A-850-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3044.9	0.0	3044.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	25840.1	0.0	25840.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	28885.0	0.0	28885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	1.3
10°-20°	921.8	3.2
20°-30°	1425.8	4.9
30°-40°	2587.1	9.0
40°-50°	4883.5	16.9
50°-60°	7056.2	24.4
60°-70°	7511.2	26.0
70°-80°	3980.4	13.8
80°-90°	130.7	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°	28885.0	100.0
0°-180°	28885.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955074

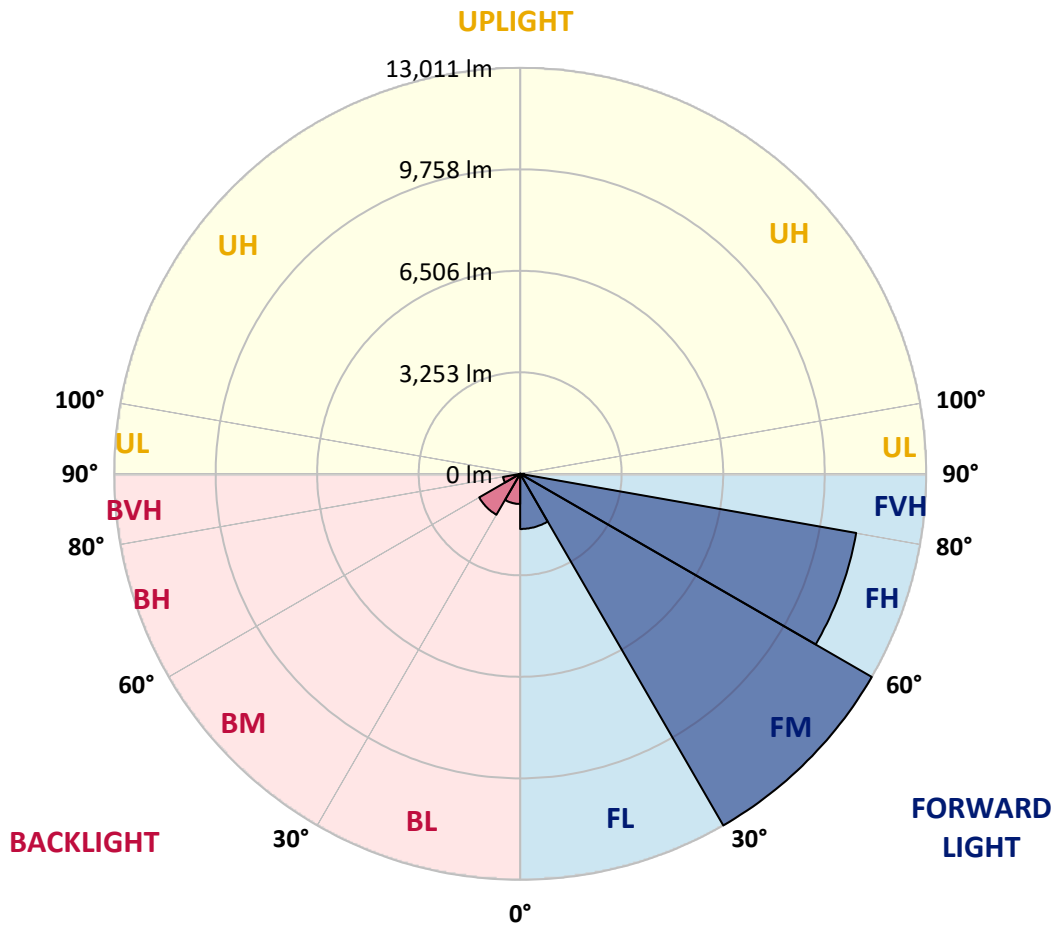
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1768.4	6.1			
FM (30°-60°)	13011.1	45.0			
FH (60°-80°)	10933.4	37.9			G4/12000
FVH (80°-90°)	127.2	0.4			G2/225
BL (0°-30°)	967.4	3.3	B2/1000		
BM (30°-60°)	1515.8	5.2	B2/2500		
BH (60°-80°)	558.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.5	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 III Medium



REPORT NUMBER: P955074
 CATALOG NUMBER: GALN-SB8A-850-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5
2.5°	4230.1	4268.4	4262.9	4288.5	4297.6	4334.1	4370.6	4419.8	4474.5	4472.7
5°	3991.1	4029.4	4038.6	4073.2	4117.0	4173.6	4248.3	4346.8	4449.0	4465.4
7.5°	3708.4	3748.5	3772.2	3841.6	3921.8	4038.6	4160.8	4304.9	4474.5	4498.2
10°	3425.7	3462.2	3493.2	3591.7	3719.3	3892.6	4091.5	4299.4	4527.4	4562.1
12.5°	3250.6	3285.2	3319.9	3405.6	3564.3	3775.9	4045.9	4325.0	4615.0	4664.2
15°	3188.5	3219.5	3246.9	3323.5	3471.3	3712.1	4036.7	4377.9	4726.3	4791.9
17.5°	3197.7	3214.1	3232.3	3290.7	3434.8	3682.9	4053.2	4469.1	4857.6	4916.0
20°	3250.6	3259.7	3261.5	3301.6	3429.3	3679.2	4086.0	4556.6	4981.6	5060.1
22.5°	3318.0	3321.7	3318.0	3345.4	3464.0	3706.6	4129.8	4662.4	5120.3	5193.2
25°	3633.6	3564.3	3476.7	3423.8	3522.3	3759.5	4195.4	4804.7	5271.7	5342.8
27.5°	4613.2	4414.3	4100.6	3748.5	3642.7	3836.1	4286.6	4948.8	5424.9	5488.7
30°	6203.8	5942.9	5410.3	4616.8	4029.4	3996.6	4405.2	5092.9	5587.2	5656.5
32.5°	7798.0	7734.2	7119.5	6021.4	4899.5	4354.1	4602.2	5288.1	5802.5	5857.2
35°	9410.6	9281.0	8777.6	7692.2	6240.3	5082.0	4930.6	5543.5	6085.2	6147.2
37.5°	10645.5	10567.0	10255.1	9361.3	7830.9	6205.6	5492.4	5939.3	6495.6	6565.0
40°	11736.3	11699.8	11594.0	11004.8	9609.4	7675.8	6366.1	6552.2	7064.8	7146.8
42.5°	12593.6	12679.4	12739.5	12575.4	11442.6	9354.0	7540.8	7413.2	7858.2	7942.2
45°	13471.0	13500.2	13742.8	13979.9	13263.1	11108.8	8865.1	8421.9	8845.1	8949.1
47.5°	14034.7	14151.4	14578.2	14996.0	14793.5	12849.0	10287.9	9613.0	9988.8	10184.0
50°	14076.6	14297.3	14884.7	15612.5	15908.0	14505.3	11834.8	10970.2	11369.6	11584.9
52.5°	13378.0	13720.9	14631.1	15696.4	16510.0	15908.0	13434.5	12327.3	12839.9	13120.8
55°	10256.9	10705.7	13677.1	15240.4	16533.7	16971.5	14992.3	13741.0	14477.9	14795.3
57.5°	8936.3	9162.5	10753.1	14448.7	16094.1	17400.1	16400.5	15087.2	16260.1	16654.1
60°	7435.1	7732.4	9018.4	13153.6	15497.6	17442.1	17644.6	16823.7	18191.8	18635.1
62.5°	5052.8	5375.6	6654.3	10928.2	14682.2	17422.0	18664.2	18611.3	20338.8	20814.9
65°	3130.2	3332.6	4175.4	8923.5	13542.2	17443.9	19731.3	20782.0	22604.3	23087.7
67.5°	2473.5	2566.5	3006.1	6851.3	11577.6	16951.4	20796.6	22823.2	24736.7	25119.7
70°	1661.8	1718.3	2187.1	4593.1	8613.4	14678.6	20776.6	23848.3	25834.8	26026.3
72.5°	875.6	919.3	1278.7	2126.9	5202.3	10433.9	17513.2	22622.5	24742.2	24453.9
75°	437.8	510.7	861.0	1079.9	2221.8	5818.9	10875.3	17836.1	19474.1	18357.8
77.5°	332.0	401.3	711.4	711.4	773.4	1959.1	4605.9	9727.9	8972.8	7471.5
80°	211.6	273.6	622.0	538.1	322.9	498.0	1200.3	2725.2	1906.2	1450.2
82.5°	124.0	178.8	518.0	355.7	180.6	184.2	339.3	580.1	494.3	384.9
85°	49.3	116.7	355.7	140.5	71.1	45.6	102.1	124.0	102.1	76.6
87.5°	0.0	27.4	62.0	0.0	5.5	3.6	7.3	9.1	9.1	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955074
 CATALOG NUMBER: GALN-SB8A-850-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4505.5	0°	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5	4505.5
4509.2	2.5°	4525.6	4529.3	4540.2	4542.0	4516.5	4483.6	4470.9	4465.4	4443.5	4441.7
4538.4	5°	4580.3	4596.7	4580.3	4532.9	4419.8	4261.1	4140.7	4042.2	3952.8	3925.5
4638.7	7.5°	4689.8	4706.2	4656.9	4470.9	4186.3	3870.7	3586.2	3385.5	3205.0	3137.5
4760.9	10°	4846.6	4868.5	4713.5	4337.7	3834.3	3327.2	2845.6	2506.3	2241.8	2134.2
4926.9	12.5°	5043.6	5052.8	4744.5	4135.2	3376.4	2652.2	1970.0	1607.0	1371.7	1284.2
5127.6	15°	5260.7	5247.9	4748.1	3859.8	2752.6	1875.2	1286.0	1056.2	961.3	932.1
5328.2	17.5°	5488.7	5435.8	4675.2	3462.2	2068.5	1282.3	954.0	899.3	882.9	875.6
5527.0	20°	5713.1	5594.5	4542.0	2942.3	1484.8	957.7	866.4	850.0	840.9	837.3
5727.7	22.5°	5917.4	5714.9	4314.0	2338.5	1078.0	846.4	819.0	804.4	788.0	780.7
5922.9	25°	6116.2	5784.2	3993.0	1774.9	862.8	791.7	769.8	742.4	720.5	711.4
6132.6	27.5°	6309.6	5828.0	3591.7	1313.4	769.8	740.6	700.5	662.1	645.7	642.1
6357.0	30°	6515.7	5842.6	3135.6	979.5	713.2	676.7	618.4	574.6	565.5	567.3
6659.8	32.5°	6767.4	5864.5	2676.0	802.6	665.8	600.1	530.8	485.2	477.9	485.2
7101.2	35°	7068.4	5908.3	2232.7	738.8	623.8	521.7	446.9	408.6	401.3	406.8
7666.7	37.5°	7477.0	5979.4	1818.6	726.0	589.2	456.0	375.8	344.8	344.8	346.6
8359.9	40°	8020.6	6169.1	1448.3	716.9	570.9	406.8	317.4	304.6	310.1	313.7
9242.7	42.5°	8682.7	6572.2	1198.4	705.9	550.9	384.9	288.2	282.7	291.9	295.5
10300.7	45°	9425.1	7083.0	1110.9	687.7	532.6	399.5	275.4	268.1	279.1	280.9
11486.4	47.5°	10193.1	7582.8	1099.9	667.6	514.4	421.4	271.8	255.4	268.1	270.0
12752.3	50°	10970.2	7909.3	1110.9	636.6	485.2	421.4	273.6	242.6	253.6	259.0
14065.7	52.5°	11752.7	8058.9	1103.6	569.1	434.1	395.8	273.6	231.7	242.6	246.3
15484.8	55°	12511.5	8029.7	992.3	468.8	368.5	350.2	266.3	222.5	229.8	231.7
16825.5	57.5°	13111.7	7622.9	786.2	364.8	299.2	291.9	242.6	211.6	217.1	215.2
18055.0	60°	13425.4	6729.1	561.8	280.9	235.3	229.8	213.4	197.0	200.7	191.5
19096.6	62.5°	13429.1	5547.1	375.8	222.5	187.9	182.4	182.4	176.9	173.3	155.0
19902.8	65°	13142.7	4235.6	249.9	176.9	151.4	142.3	153.2	151.4	138.6	113.1
20149.1	67.5°	12493.3	2776.3	189.7	138.6	116.7	111.3	122.2	127.7	118.6	94.9
19251.6	70°	11158.0	1616.2	156.9	107.6	87.6	82.1	98.5	109.4	98.5	76.6
16455.2	72.5°	9268.3	871.9	127.7	80.3	60.2	54.7	78.4	89.4	78.4	56.5
10557.9	75°	6014.1	467.0	98.5	52.9	31.0	34.7	58.4	65.7	54.7	36.5
3099.2	77.5°	2019.3	206.1	62.0	25.5	14.6	14.6	34.7	40.1	25.5	12.8
563.6	80°	450.6	85.7	25.5	10.9	5.5	5.5	7.3	7.3	3.6	0.0
173.3	82.5°	147.8	34.7	10.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
43.8	85°	56.5	12.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.6	87.5°	21.9	1.8	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>
4505.5
4445.3
3909.1
3110.1
2088.6
1256.8
932.1
873.7
833.6
778.9
707.8
638.4
567.3
483.4
405.0
344.8
313.7
295.5
282.7
271.8
260.8
246.3
231.7
215.2
189.7
149.6
109.4
93.0
73.0
54.7
32.8
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