

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: P952575

Luminaire Tested: **GALN-SB6B-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952575
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-SB6B-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA 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: 27193 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

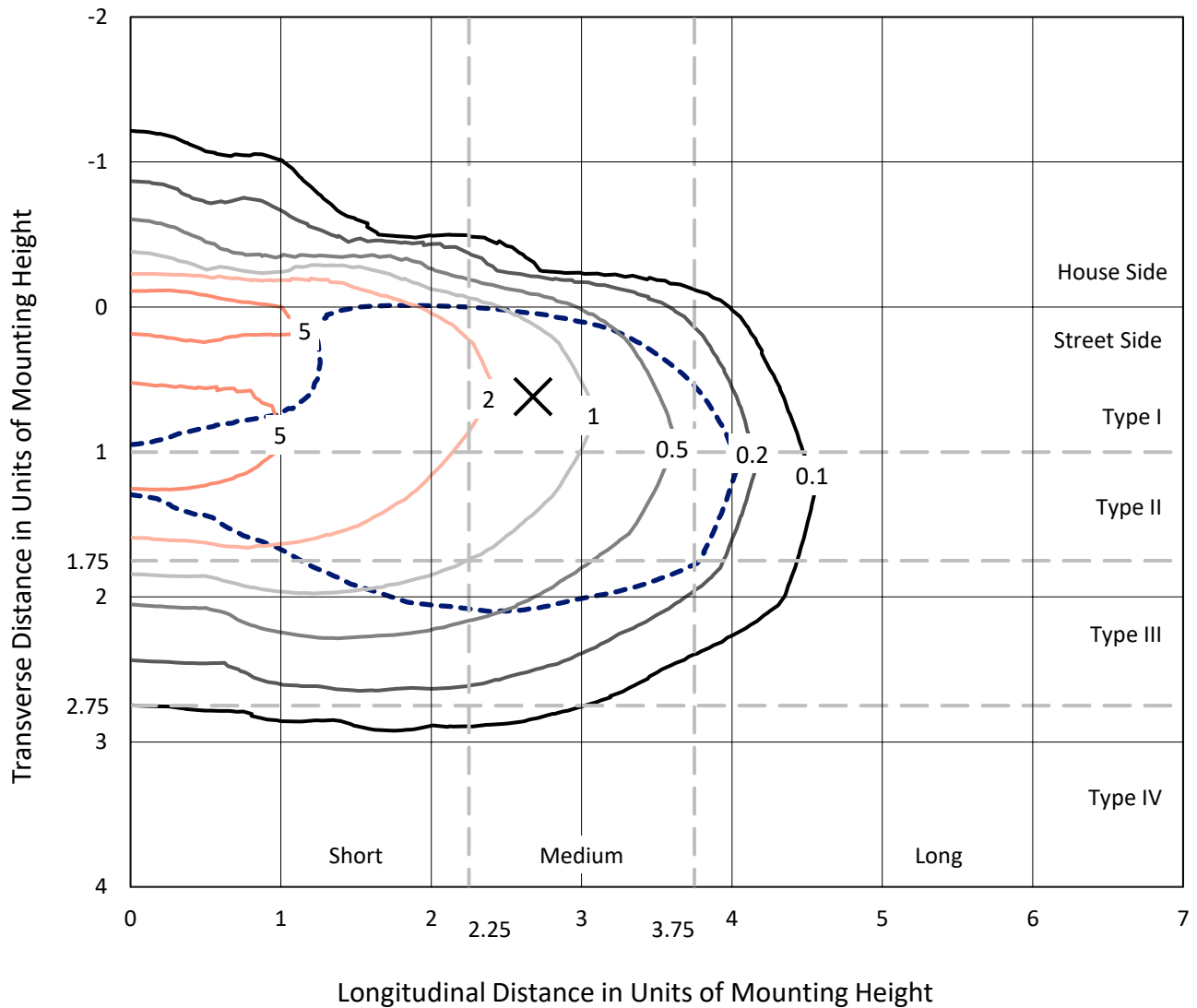
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

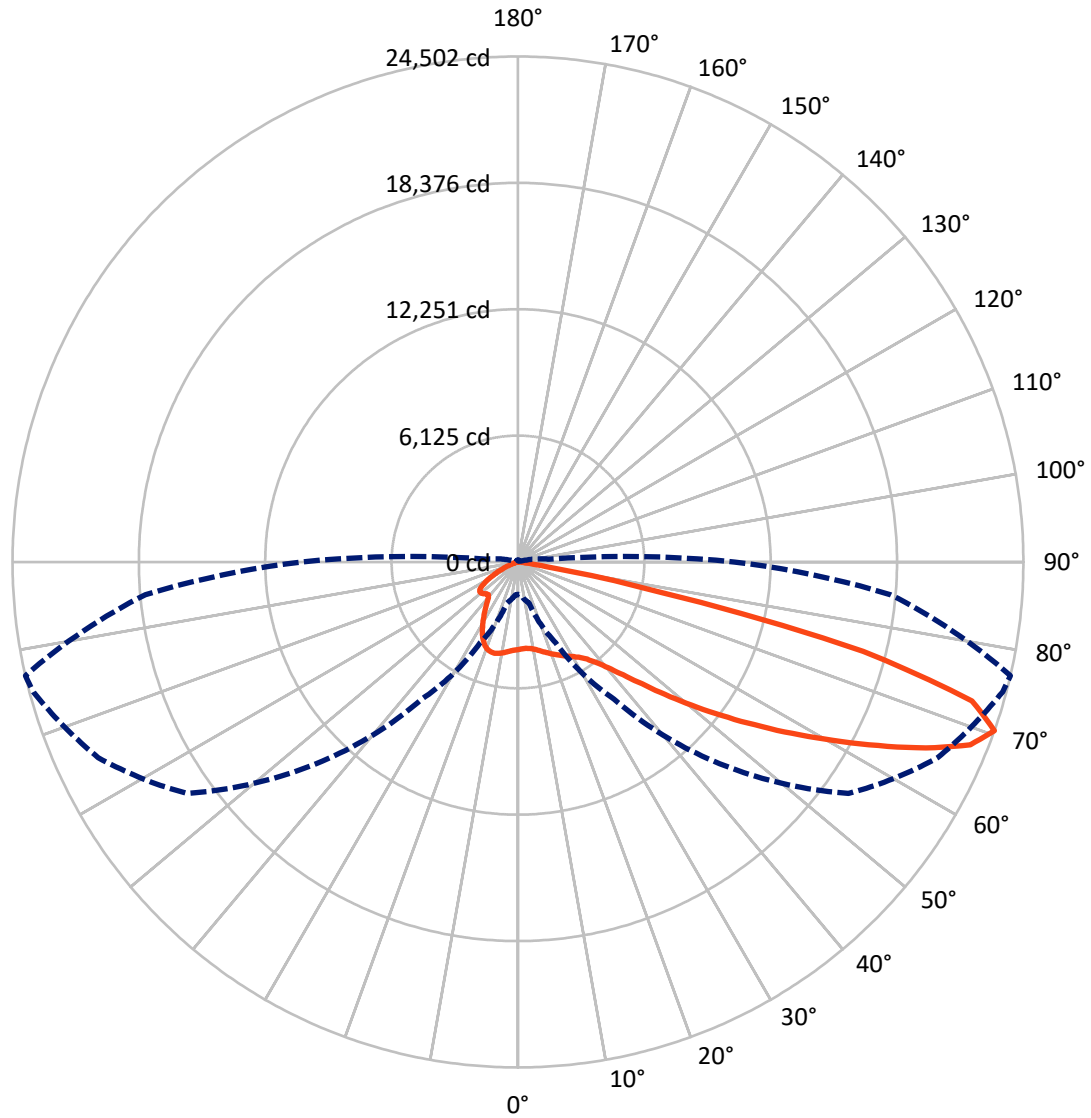
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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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	2866.5	0.0	2866.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24326.5	0.0	24326.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	27193.0	0.0	27193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.6	1.3
10°-20°	867.8	3.2
20°-30°	1342.2	4.9
30°-40°	2435.6	9.0
40°-50°	4597.4	16.9
50°-60°	6642.9	24.4
60°-70°	7071.2	26.0
70°-80°	3747.2	13.8
80°-90°	123.0	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°	27193.0	100.0
0°-180°	27193.0	100.0

Coefficient of Utilization



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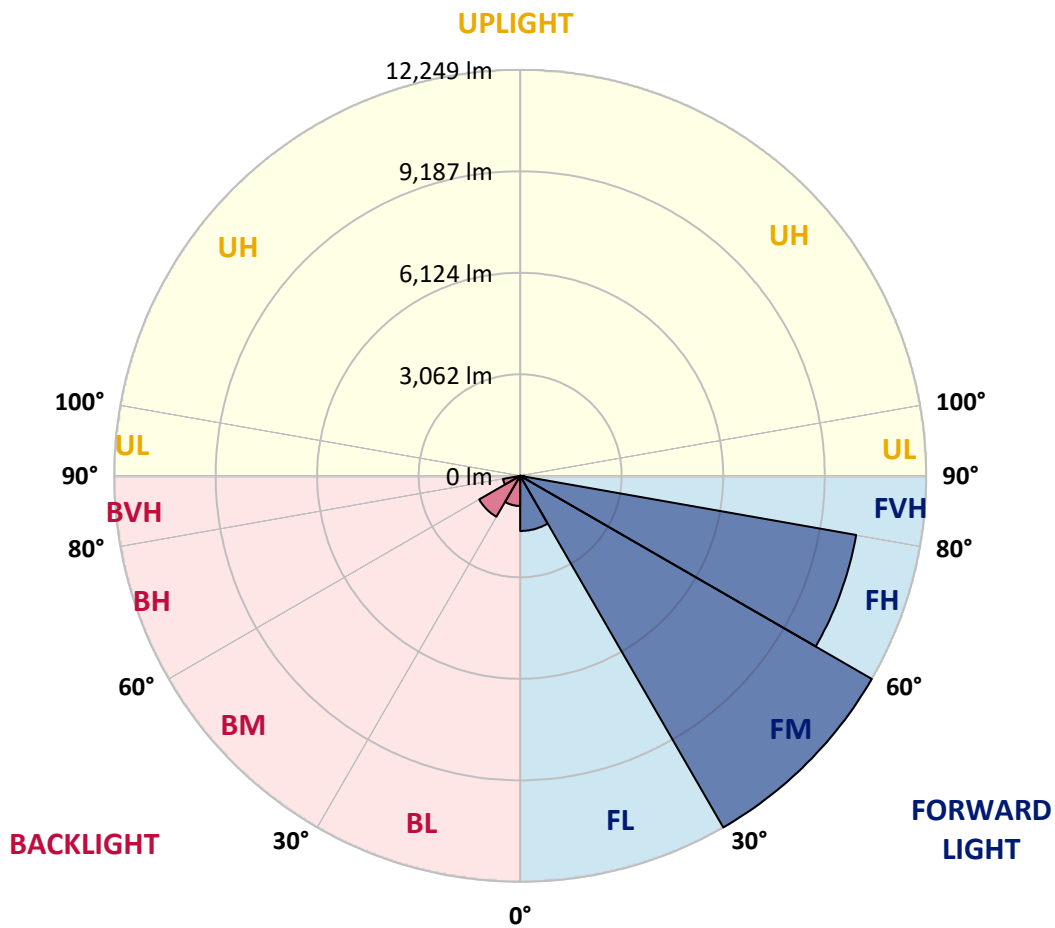
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.9	6.1			
FM (30°-60°)	12248.9	45.0			
FH (60°-80°)	10292.9	37.9			G4/12000
FVH (80°-90°)	119.7	0.4			G2/225
BL (0°-30°)	910.7	3.3	B2/1000		
BM (30°-60°)	1427.0	5.2	B2/2500		
BH (60°-80°)	525.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6
2.5°	3982.3	4018.4	4013.2	4037.3	4045.8	4080.2	4114.5	4160.9	4212.4	4210.7
5°	3757.4	3793.4	3802.0	3834.6	3875.8	3929.1	3999.5	4092.2	4188.4	4203.8
7.5°	3491.2	3529.0	3551.3	3616.5	3692.1	3802.0	3917.1	4052.7	4212.4	4234.7
10°	3225.0	3259.3	3288.5	3381.3	3501.5	3664.6	3851.8	4047.6	4262.2	4294.9
12.5°	3060.1	3092.8	3125.4	3206.1	3355.5	3554.7	3808.9	4071.6	4344.7	4391.0
15°	3001.8	3031.0	3056.7	3128.8	3267.9	3494.6	3800.3	4121.4	4449.4	4511.2
17.5°	3010.3	3025.8	3043.0	3097.9	3233.6	3467.1	3815.7	4207.3	4573.0	4628.0
20°	3060.1	3068.7	3070.4	3108.2	3228.4	3463.7	3846.6	4289.7	4689.8	4763.7
22.5°	3123.7	3127.1	3123.7	3149.4	3261.1	3489.5	3887.9	4389.3	4820.3	4889.0
25°	3420.8	3355.5	3273.1	3223.3	3316.0	3539.3	3949.7	4523.2	4962.9	5029.8
27.5°	4342.9	4155.8	3860.4	3529.0	3429.4	3611.4	4035.5	4658.9	5107.1	5167.2
30°	5840.4	5594.8	5093.4	4346.4	3793.4	3762.5	4147.2	4794.6	5259.9	5325.2
32.5°	7341.3	7281.2	6702.4	5668.7	4612.5	4099.1	4332.6	4978.3	5462.6	5514.1
35°	8859.3	8737.4	8263.4	7241.7	5874.7	4784.3	4641.7	5218.7	5728.8	5787.1
37.5°	10021.9	9948.1	9654.4	8812.9	7372.2	5842.1	5170.7	5591.4	6115.1	6180.4
40°	11048.8	11014.5	10914.9	10360.2	9046.5	7226.2	5993.2	6168.4	6650.9	6728.2
42.5°	11855.9	11936.6	11993.3	11838.7	10772.3	8806.1	7099.1	6978.9	7397.9	7476.9
45°	12681.9	12709.4	12937.8	13161.0	12486.2	10458.1	8345.9	7928.6	8327.0	8424.8
47.5°	13212.6	13322.5	13724.3	14117.5	13926.9	12096.3	9685.3	9049.9	9403.7	9587.4
50°	13252.0	13459.8	14012.8	14698.0	14976.2	13655.6	11141.5	10327.6	10703.6	10906.3
52.5°	12594.3	12917.2	13774.1	14777.0	15542.9	14976.2	12647.6	11605.2	12087.7	12352.2
55°	9656.1	10078.6	12876.0	14347.7	15565.2	15977.3	14114.1	12936.1	13629.8	13928.6
57.5°	8412.8	8625.8	10123.2	13602.4	15151.3	16380.9	15439.8	14203.4	15307.6	15678.5
60°	6999.5	7279.4	8490.1	12383.1	14589.8	16420.4	16611.0	15838.2	17126.2	17543.5
62.5°	4756.8	5060.7	6264.5	10288.1	13822.2	16401.5	17570.9	17521.1	19147.4	19595.6
65°	2946.8	3137.4	3930.8	8400.8	12748.9	16422.1	18575.5	19564.7	21280.2	21735.3
67.5°	2328.6	2416.2	2830.0	6450.0	10899.4	15958.4	19578.4	21486.3	23287.7	23648.3
70°	1564.4	1617.7	2059.0	4324.0	8108.9	13818.7	19559.5	22451.4	24321.5	24501.8
72.5°	824.3	865.5	1203.8	2002.3	4897.6	9822.7	16487.4	21297.4	23292.8	23021.5
75°	412.1	480.8	810.5	1016.6	2091.6	5478.0	10238.3	16791.3	18333.4	17282.4
77.5°	312.5	377.8	669.7	669.7	728.1	1844.3	4336.1	9158.1	8447.2	7033.9
80°	199.2	257.6	585.6	506.6	304.0	468.8	1130.0	2565.6	1794.5	1365.2
82.5°	116.8	168.3	487.7	334.9	170.0	173.4	319.4	546.1	465.4	362.3
85°	46.4	109.9	334.9	132.2	67.0	42.9	96.2	116.8	96.2	72.1
87.5°	0.0	25.8	58.4	0.0	5.2	3.4	6.9	8.6	8.6	6.9
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°
4241.6	0°	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6	4241.6
4245.1	2.5°	4260.5	4263.9	4274.2	4276.0	4251.9	4221.0	4209.0	4203.8	4183.2	4181.5
4272.5	5°	4312.0	4327.5	4312.0	4267.4	4160.9	4011.5	3898.2	3805.4	3721.3	3695.5
4367.0	7.5°	4415.1	4430.5	4384.1	4209.0	3941.1	3644.0	3376.1	3187.2	3017.2	2953.7
4482.0	10°	4562.7	4583.4	4437.4	4083.6	3609.7	3132.3	2678.9	2359.5	2110.5	2009.2
4638.3	12.5°	4748.2	4756.8	4466.6	3893.0	3178.6	2496.9	1854.6	1512.9	1291.4	1208.9
4827.2	15°	4952.6	4940.5	4470.0	3633.7	2591.3	1765.3	1210.7	994.3	905.0	877.5
5016.1	17.5°	5167.2	5117.4	4401.3	3259.3	1947.4	1207.2	898.1	846.6	831.2	824.3
5203.3	20°	5378.4	5266.8	4276.0	2769.9	1397.8	901.6	815.7	800.2	791.7	788.2
5392.2	22.5°	5570.8	5380.2	4061.3	2201.5	1014.9	796.8	771.0	757.3	741.9	735.0
5575.9	25°	5758.0	5445.4	3759.1	1670.9	812.3	745.3	724.7	698.9	678.3	669.7
5773.4	27.5°	5940.0	5486.6	3381.3	1236.4	724.7	697.2	659.4	623.4	607.9	604.5
5984.6	30°	6134.0	5500.4	2952.0	922.2	671.4	637.1	582.1	540.9	532.3	534.1
6269.7	32.5°	6371.0	5521.0	2519.2	755.6	626.8	565.0	499.7	456.8	449.9	456.8
6685.3	35°	6654.4	5562.2	2101.9	695.5	587.3	491.1	420.7	384.7	377.8	382.9
7217.6	37.5°	7039.0	5629.2	1712.1	683.5	554.7	429.3	353.8	324.6	324.6	326.3
7870.2	40°	7550.8	5807.8	1363.5	674.9	537.5	382.9	298.8	286.8	291.9	295.4
8701.3	42.5°	8174.1	6187.3	1128.2	664.6	518.6	362.3	271.3	266.2	274.8	278.2
9697.3	45°	8873.1	6668.1	1045.8	647.4	501.4	376.1	259.3	252.4	262.7	264.5
10813.5	47.5°	9596.0	7138.6	1035.5	628.5	484.3	396.7	255.9	240.4	252.4	254.2
12005.3	50°	10327.6	7446.0	1045.8	599.3	456.8	396.7	257.6	228.4	238.7	243.9
13241.7	52.5°	11064.3	7586.8	1038.9	535.8	408.7	372.6	257.6	218.1	228.4	231.8
14577.8	55°	11778.6	7559.4	934.2	441.3	346.9	329.7	250.7	209.5	216.4	218.1
15839.9	57.5°	12343.6	7176.4	740.1	343.5	281.6	274.8	228.4	199.2	204.4	202.6
16997.4	60°	12639.0	6334.9	528.9	264.5	221.5	216.4	200.9	185.5	188.9	180.3
17977.9	62.5°	12642.4	5222.2	353.8	209.5	176.9	171.7	171.7	166.6	163.1	146.0
18737.0	65°	12372.8	3987.5	235.3	166.6	142.5	133.9	144.2	142.5	130.5	106.5
18968.8	67.5°	11761.5	2613.7	178.6	130.5	109.9	104.8	115.1	120.2	111.6	89.3
18123.9	70°	10504.4	1521.5	147.7	101.3	82.4	77.3	92.7	103.0	92.7	72.1
15491.3	72.5°	8725.4	820.8	120.2	75.6	56.7	51.5	73.8	84.1	73.8	53.2
9939.5	75°	5661.8	439.6	92.7	49.8	29.2	32.6	55.0	61.8	51.5	34.3
2917.6	77.5°	1901.0	194.0	58.4	24.0	13.7	13.7	32.6	37.8	24.0	12.0
530.6	80°	424.2	80.7	24.0	10.3	5.2	5.2	6.9	6.9	3.4	0.0
163.1	82.5°	139.1	32.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
41.2	85°	53.2	12.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	20.6	1.7	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>
4241.6
4184.9
3680.1
2927.9
1966.3
1183.2
877.5
822.6
784.8
733.3
666.3
601.0
534.1
455.1
381.2
324.6
295.4
278.2
266.2
255.9
245.6
231.8
218.1
202.6
178.6
140.8
103.0
87.6
68.7
51.5
30.9
10.3
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