

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: P948119

Luminaire Tested: **GALN-SB3B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948119
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-SB3B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA 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: 14305 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

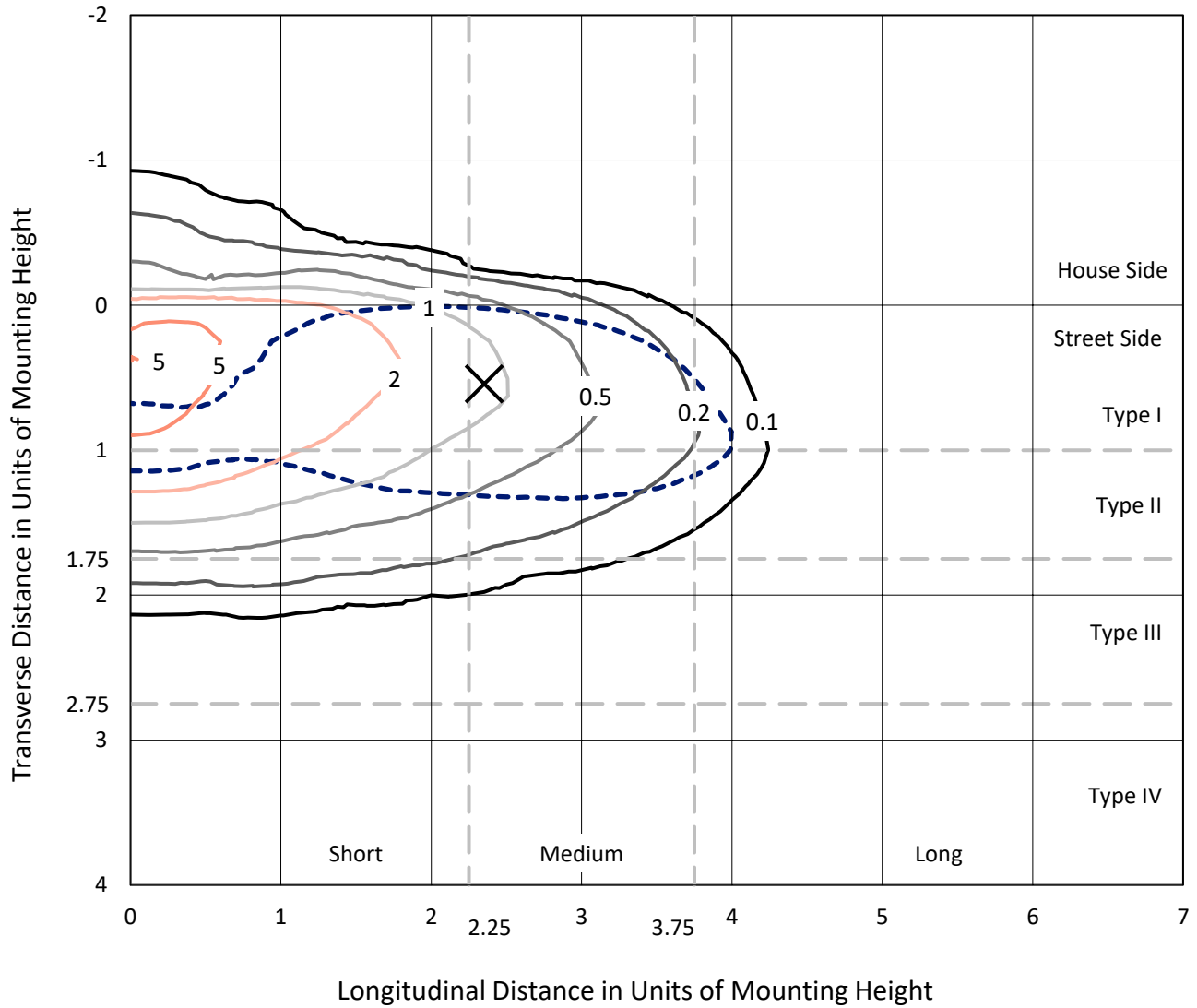
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

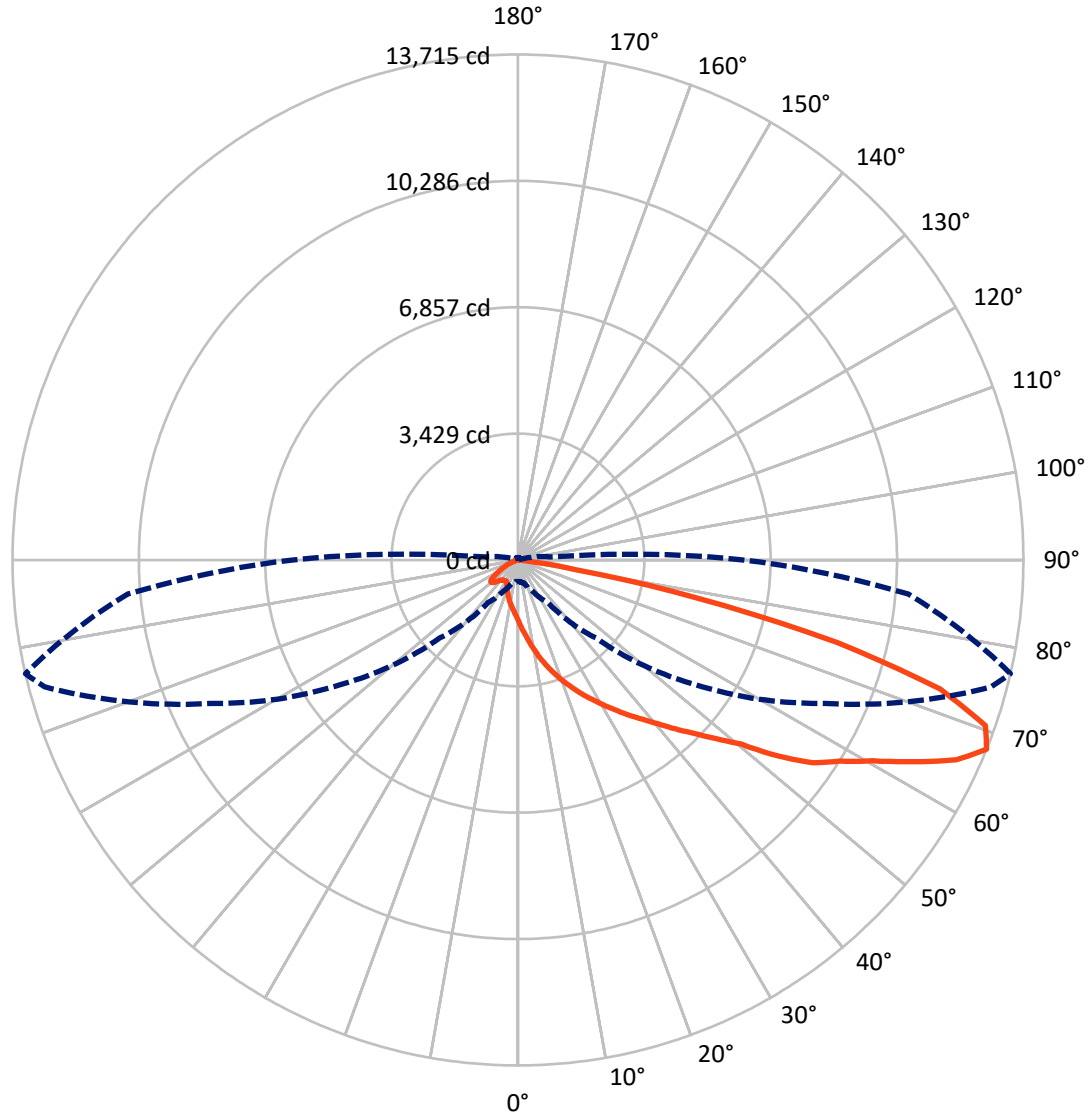
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P948119
CATALOG NUMBER: GALN-SB3B-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.4	0.0	1052.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	13252.6	0.0	13252.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	14305.0	0.0	14305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	1.2
10°-20°	589.6	4.1
20°-30°	1137.8	8.0
30°-40°	1975.2	13.8
40°-50°	2867.9	20.0
50°-60°	3293.4	23.0
60°-70°	2859.3	20.0
70°-80°	1346.8	9.4
80°-90°	66.6	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°	14305.0	100.0
0°-180°	14305.0	100.0

Coefficient of Utilization



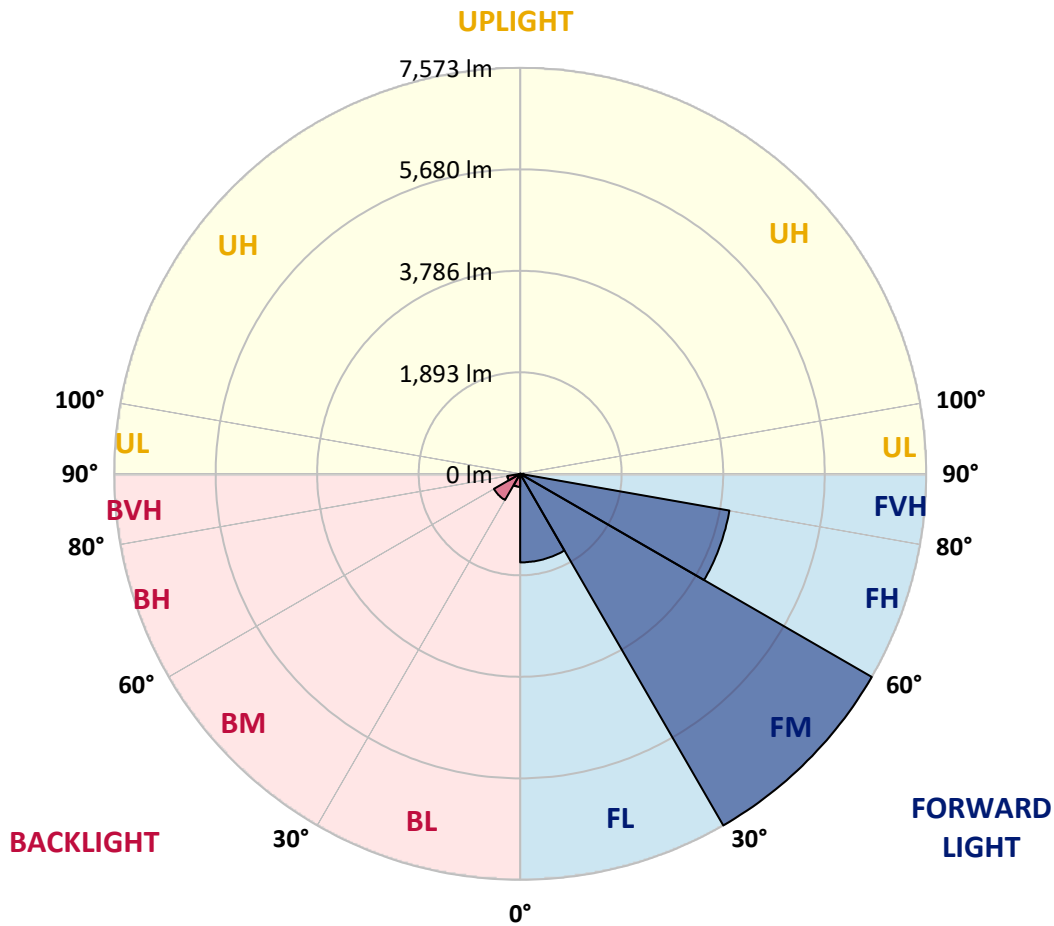
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.1	11.5			
FM (30°-60°)	7572.7	52.9			
FH (60°-80°)	3962.4	27.7			G2/5000
FVH (80°-90°)	65.4	0.5			G1/100
BL (0°-30°)	243.7	1.7	B1/500		
BM (30°-60°)	563.9	3.9	B1/1000		
BH (60°-80°)	243.6	1.7	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	2283.8	2298.0	2277.6	2238.5	2179.9	2141.7	2048.4	1960.5	1862.8	1831.7
5°	2783.9	2796.4	2773.3	2730.6	2652.5	2577.9	2455.3	2271.4	2080.4	2019.1
7.5°	3154.4	3161.5	3152.6	3113.5	3038.9	2954.5	2817.7	2600.1	2316.7	2249.2
10°	3420.9	3443.9	3441.3	3426.2	3376.4	3308.0	3162.4	2914.5	2581.4	2494.4
12.5°	3597.6	3623.4	3638.5	3672.2	3669.6	3626.0	3498.1	3236.1	2845.2	2743.1
15°	3649.1	3676.7	3734.4	3812.6	3881.9	3904.1	3814.4	3551.4	3135.7	3005.1
17.5°	3619.8	3662.5	3731.8	3855.2	4007.1	4107.5	4097.7	3856.1	3399.5	3250.3
20°	3684.7	3725.5	3779.7	3883.7	4060.4	4242.5	4315.4	4147.5	3661.6	3505.2
22.5°	4043.6	4036.4	4041.8	4058.7	4164.4	4344.7	4494.8	4412.2	3921.0	3761.1
25°	4612.1	4580.1	4525.9	4434.4	4407.8	4494.8	4651.1	4646.7	4194.6	4023.1
27.5°	5264.1	5258.7	5131.7	4911.4	4787.1	4753.3	4827.9	4875.0	4465.5	4282.5
30°	5888.6	5902.8	5731.3	5486.2	5257.9	5125.5	5058.0	5091.7	4740.9	4562.3
32.5°	6432.2	6447.3	6260.8	5973.8	5691.4	5531.5	5389.3	5305.8	5041.1	4846.6
35°	6891.4	6906.5	6692.5	6375.3	6074.2	5929.4	5768.6	5540.3	5343.1	5161.9
37.5°	7301.8	7297.4	7010.5	6690.7	6394.9	6280.3	6195.9	5829.0	5654.0	5479.0
40°	7544.3	7563.0	7317.8	6965.2	6678.3	6594.8	6589.4	6187.0	6012.9	5843.3
42.5°	7615.4	7648.3	7470.6	7181.0	6920.8	6830.2	6969.6	6574.3	6430.4	6265.2
45°	7487.5	7519.5	7438.6	7237.9	7086.0	7027.4	7296.5	6975.8	6876.3	6712.9
47.5°	7114.4	7154.4	7173.9	7131.3	7129.5	7189.0	7589.7	7398.7	7405.8	7238.8
50°	6392.2	6459.7	6639.2	6790.2	7023.8	7316.9	7874.8	7857.0	8002.7	7858.8
52.5°	5079.3	5175.2	5793.5	6206.6	6731.6	7293.0	8188.4	8592.5	9050.0	8839.5
55°	4081.7	4081.7	4584.5	5357.3	6161.3	7134.8	8325.2	9070.5	9763.3	9713.6
57.5°	3327.6	3367.6	3688.2	4371.3	5336.0	6758.2	8409.6	9370.7	10338.1	10301.6
60°	2053.8	2139.9	2745.7	3420.0	4397.1	6087.5	8356.3	9674.5	11035.4	11064.7
62.5°	1156.6	1188.5	1458.6	2460.6	3419.1	5185.9	7948.5	9844.2	11927.2	12051.6
65°	798.6	814.6	918.5	1531.4	2370.0	4128.8	7151.7	9738.5	12820.9	13072.3
67.5°	580.1	588.1	652.9	935.4	1406.2	2993.6	5902.8	9205.5	13294.3	13714.5
70°	445.9	451.3	498.3	614.7	830.6	1847.7	4286.9	8145.7	12951.4	13453.3
72.5°	362.4	367.8	404.2	454.8	550.7	1092.6	2598.3	6615.2	11437.8	11979.6
75°	305.6	312.7	345.5	378.4	431.7	701.8	1218.8	4606.7	8601.4	8956.7
77.5°	169.7	156.3	280.7	313.6	364.2	444.2	570.3	2711.1	4817.3	4915.9
80°	105.7	109.3	223.0	252.3	279.8	223.9	261.2	1043.8	1670.0	1586.5
82.5°	6.2	14.2	171.4	182.1	191.9	95.9	98.6	354.4	402.4	369.5
85°	0.0	0.0	78.2	63.1	66.6	27.5	28.4	82.6	54.2	58.6
87.5°	0.0	0.0	0.0	1.8	0.0	2.7	5.3	7.1	2.7	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948119
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1649.6	0°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
1734.0	2.5°	1671.8	1609.6	1483.5	1360.0	1259.6	1166.3	1099.7	1036.6	1004.7	1002.9
1845.9	5°	1722.4	1591.8	1339.6	1116.6	937.2	793.3	700.0	633.4	599.6	588.1
1983.6	7.5°	1793.5	1597.2	1213.4	903.4	692.0	568.5	515.2	493.9	486.8	478.8
2139.0	10°	1883.2	1609.6	1100.6	727.5	545.4	483.2	461.9	453.0	447.7	442.4
2314.0	12.5°	1983.6	1621.2	988.7	604.0	479.7	447.7	432.6	421.9	414.8	408.6
2493.5	15°	2081.3	1628.3	872.3	517.9	445.9	420.2	404.2	392.6	382.9	375.8
2669.3	17.5°	2178.1	1638.0	763.1	466.4	418.4	392.6	376.6	362.4	354.4	346.4
2854.1	20°	2285.6	1636.3	660.0	429.9	390.9	365.1	348.2	334.9	326.9	318.0
3049.5	22.5°	2385.1	1627.4	569.4	398.8	362.4	337.6	318.9	305.6	297.6	290.5
3249.4	25°	2499.7	1620.3	493.9	370.4	335.8	310.9	290.5	278.0	269.2	262.9
3450.2	27.5°	2609.8	1609.6	438.8	344.7	310.0	286.0	266.5	252.3	244.3	239.8
3657.1	30°	2718.2	1606.9	418.4	319.8	286.9	262.9	243.4	230.1	223.9	222.1
3884.5	32.5°	2848.8	1614.0	427.3	310.9	265.6	241.6	223.0	213.2	207.0	207.0
4137.7	35°	2988.2	1612.3	440.6	318.9	251.4	220.3	206.1	199.9	193.6	193.6
4418.4	37.5°	3163.2	1614.9	451.3	332.2	246.1	202.5	194.5	186.5	183.0	183.0
4725.8	40°	3424.4	1702.9	445.9	343.8	244.3	190.1	174.1	171.4	168.8	168.8
5073.1	42.5°	3744.2	1893.9	453.0	344.7	243.4	181.2	159.9	165.2	159.0	158.1
5464.8	45°	4094.2	2102.6	498.3	326.0	242.5	176.8	152.8	159.0	149.2	149.2
5918.8	47.5°	4441.5	2309.6	544.5	299.4	239.8	175.9	146.6	143.0	140.4	141.2
6510.4	50°	4920.3	2478.4	562.3	262.9	233.6	174.1	135.0	135.9	134.1	135.9
7344.5	52.5°	5441.7	2513.9	541.0	222.1	215.9	168.8	127.0	130.6	129.7	131.5
7931.6	55°	5766.9	2475.7	446.8	184.8	188.3	147.5	119.0	126.1	126.1	126.1
8505.5	57.5°	6102.6	2313.1	317.1	150.1	156.3	120.8	111.9	121.7	120.8	119.9
9196.6	60°	6344.3	2050.2	208.8	123.5	124.4	99.5	103.9	114.6	113.7	109.3
9909.0	62.5°	6524.6	1759.7	134.1	104.8	95.0	89.7	95.0	103.9	100.4	90.6
10513.1	65°	6504.1	1357.3	103.0	89.7	78.2	78.2	82.6	90.6	79.9	64.0
10628.5	67.5°	6124.8	918.5	85.3	75.5	65.7	64.8	68.4	75.5	68.4	54.2
10036.9	70°	5447.1	600.5	68.4	58.6	52.4	48.0	55.1	64.8	57.7	43.5
8544.6	72.5°	4421.1	366.0	51.5	42.6	38.2	31.1	43.5	53.3	46.2	32.0
5941.9	75°	2860.3	186.5	35.5	27.5	20.4	18.7	32.0	40.0	32.0	19.5
2636.5	77.5°	1094.4	78.2	19.5	12.4	10.7	8.9	17.8	24.0	13.3	4.4
510.8	80°	210.5	32.9	9.8	6.2	5.3	3.6	2.7	1.8	0.0	0.0
90.6	82.5°	36.4	10.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
17.8	85°	12.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	4.4	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>
1649.6
1001.1
586.3
477.0
440.6
406.8
374.9
345.5
317.1
289.6
262.0
239.8
221.2
207.0
193.6
183.0
168.8
157.2
149.2
141.2
135.9
131.5
126.1
119.9
109.3
88.8
62.2
52.4
41.8
30.2
16.9
3.6
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