

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: P956712

Luminaire Tested: **GALN-SB9B-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956712
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-SB9B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 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: 45176 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

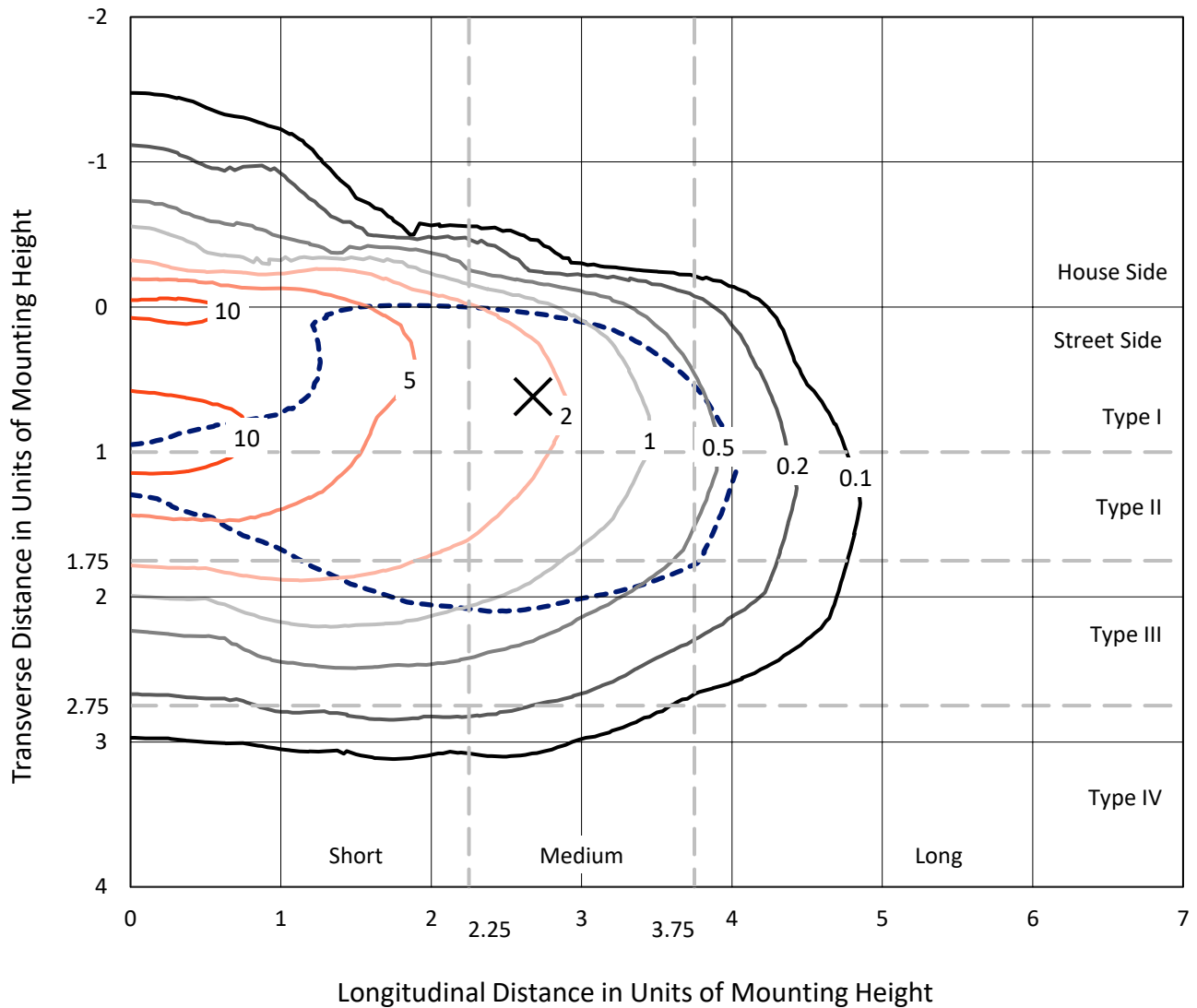
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

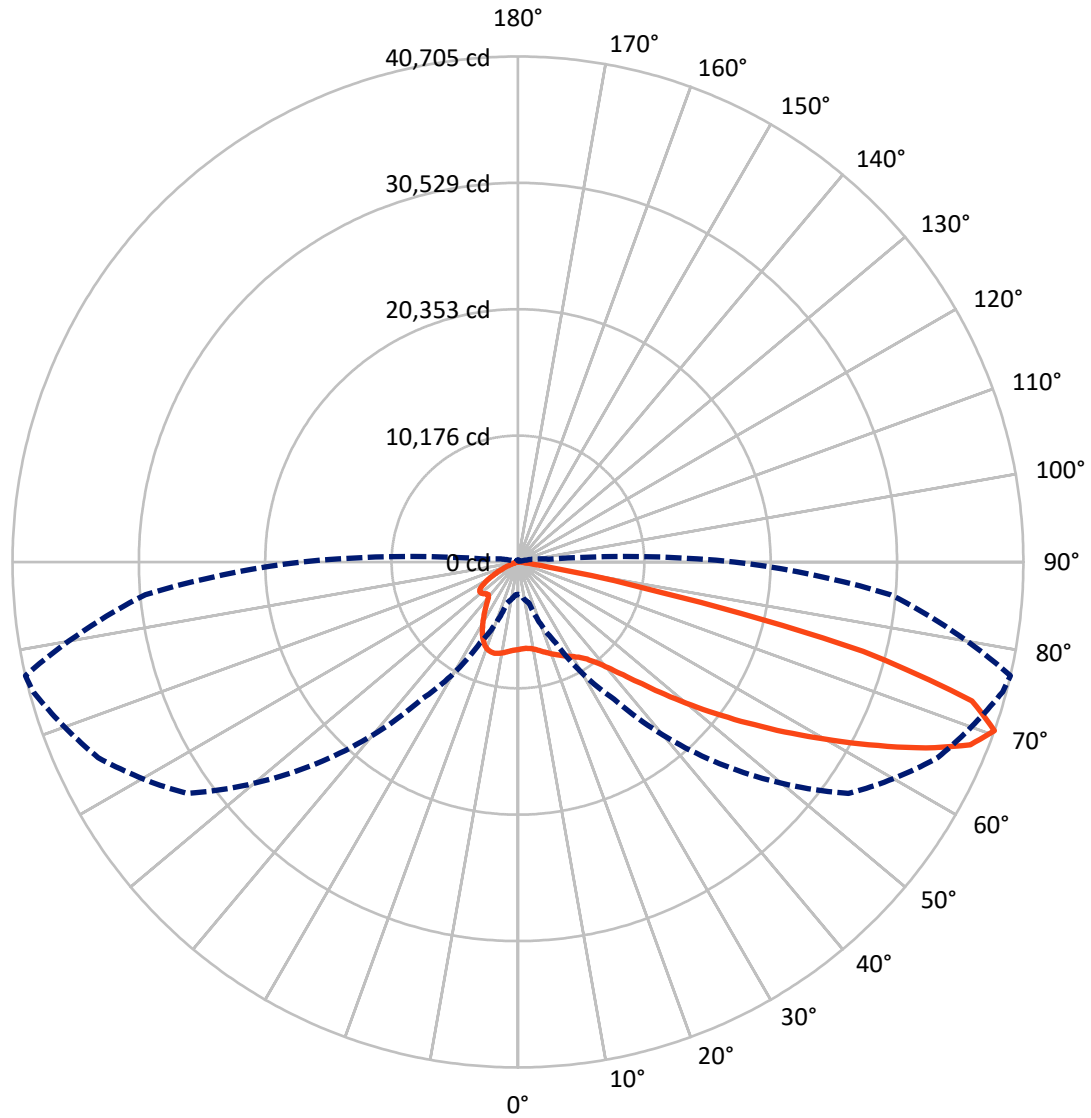
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	4762.2	0.0	4762.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	40413.8	0.0	40413.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	45176.0	0.0	45176.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.3	1.3
10°-20°	1441.7	3.2
20°-30°	2229.9	4.9
30°-40°	4046.2	9.0
40°-50°	7637.8	16.9
50°-60°	11035.9	24.4
60°-70°	11747.4	26.0
70°-80°	6225.3	13.8
80°-90°	204.4	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°	45176.0	100.0
0°-180°	45176.0	100.0



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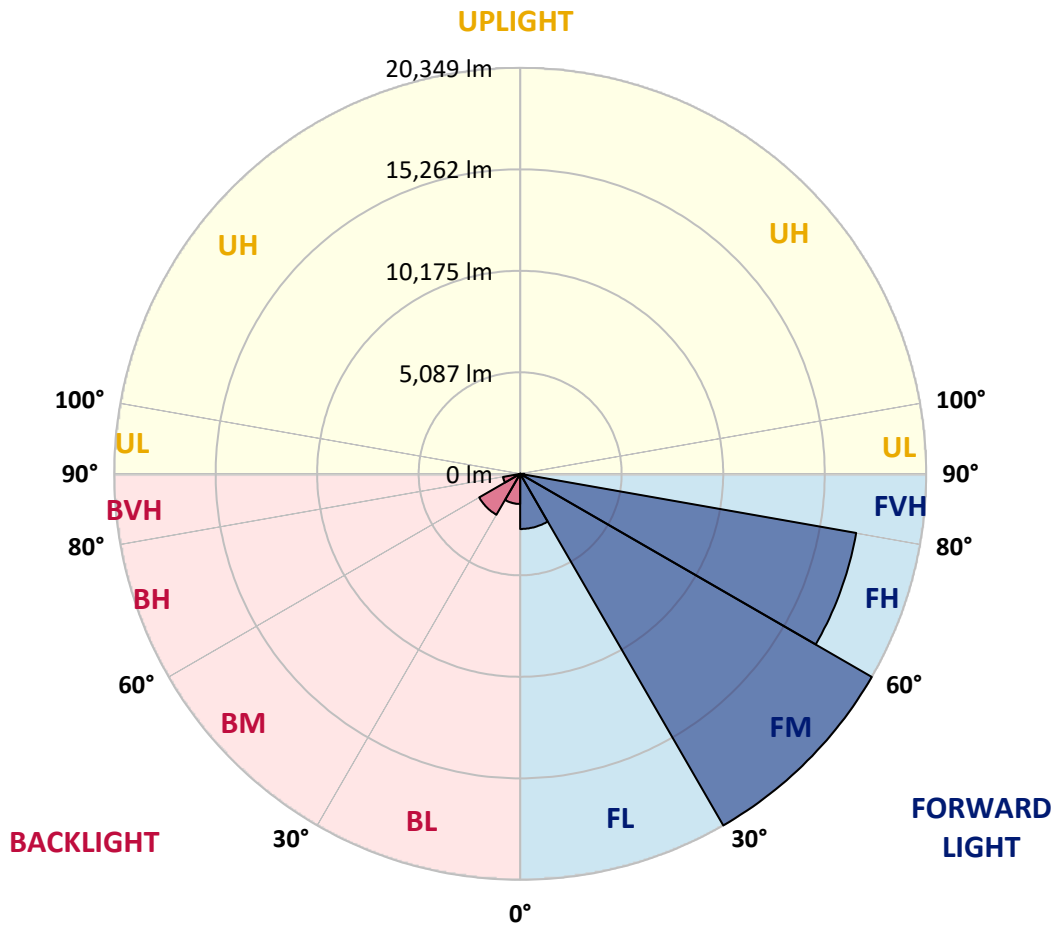
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2765.8	6.1			
FM (30°-60°)	20349.3	45.0			
FH (60°-80°)	17099.8	37.9			G5
FVH (80°-90°)	198.9	0.4			G2/225
BL (0°-30°)	1513.0	3.3	B3/2500		
BM (30°-60°)	2370.6	5.2	B2/2500		
BH (60°-80°)	873.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6
2.5°	6615.9	6675.8	6667.2	6707.1	6721.4	6778.5	6835.5	6912.6	6998.1	6995.3
5°	6242.1	6302.0	6316.3	6370.5	6439.0	6527.4	6644.4	6798.4	6958.2	6983.9
7.5°	5799.9	5862.7	5899.8	6008.2	6133.7	6316.3	6507.4	6732.8	6998.1	7035.2
10°	5357.7	5414.8	5463.3	5617.3	5817.0	6088.1	6399.0	6724.3	7080.9	7135.1
12.5°	5083.9	5138.1	5192.3	5326.3	5574.5	5905.5	6327.7	6764.2	7217.8	7294.8
15°	4986.9	5035.4	5078.1	5198.0	5429.1	5805.6	6313.4	6846.9	7391.8	7494.5
17.5°	5001.1	5026.8	5055.3	5146.6	5372.0	5760.0	6339.1	6989.6	7597.2	7688.5
20°	5083.9	5098.1	5101.0	5163.7	5363.4	5754.3	6390.5	7126.5	7791.2	7913.9
22.5°	5189.4	5195.1	5189.4	5232.2	5417.6	5797.1	6458.9	7292.0	8008.1	8122.2
25°	5683.0	5574.5	5437.6	5354.9	5508.9	5879.8	6561.6	7514.5	8244.9	8356.1
27.5°	7215.0	6904.0	6413.3	5862.7	5697.2	5999.6	6704.3	7739.9	8484.5	8584.3
30°	9702.7	9294.7	8461.7	7220.7	6302.0	6250.7	6889.7	7965.3	8738.4	8846.8
32.5°	12196.1	12096.3	11134.8	9417.4	7662.9	6809.9	7197.8	8270.5	9075.0	9160.6
35°	14718.1	14515.5	13728.1	12030.6	9759.7	7948.2	7711.4	8669.9	9517.2	9614.2
37.5°	16649.5	16526.8	16039.0	14641.0	12247.5	9705.5	8590.1	9289.0	10159.1	10267.6
40°	18355.5	18298.4	18133.0	17211.5	15029.0	12005.0	9956.6	10247.6	11049.2	11177.6
42.5°	19696.4	19830.4	19924.6	19667.8	17896.2	14629.6	11793.9	11594.1	12290.3	12421.5
45°	21068.6	21114.2	21493.7	21864.6	20743.4	17374.1	13865.0	13171.8	13833.7	13996.3
47.5°	21950.1	22132.7	22800.3	23453.6	23136.9	20095.8	16090.3	15034.7	15622.4	15927.7
50°	22015.8	22361.0	23279.6	24417.9	24880.1	22686.2	18509.6	17157.3	17782.1	18118.7
52.5°	20923.1	21459.4	22883.0	24549.1	25821.5	24880.1	21011.5	19279.8	20081.5	20520.8
55°	16041.8	16743.6	21391.0	23835.9	25858.6	26543.3	23447.9	21490.8	22643.4	23139.8
57.5°	13976.3	14330.1	16817.8	22597.7	25171.1	27213.7	25650.3	23596.3	25430.7	26046.9
60°	11628.4	12093.4	14104.7	20572.2	24238.2	27279.3	27596.0	26312.2	28451.9	29145.1
62.5°	7902.5	8407.5	10407.3	17091.7	22962.9	27248.0	29190.8	29108.0	31809.7	32554.3
65°	4895.6	5212.2	6530.3	13956.3	21179.9	27282.2	30859.7	32503.0	35353.0	36109.0
67.5°	3868.5	4014.0	4701.6	10715.5	18107.3	26511.9	32525.8	35695.4	38688.1	39287.2
70°	2599.0	2687.4	3420.6	7183.6	13471.4	22957.2	32494.4	37298.7	40405.5	40705.0
72.5°	1369.4	1437.9	1999.9	3326.5	8136.4	16318.5	27390.6	35381.6	38696.6	38245.9
75°	684.7	798.8	1346.6	1688.9	3474.8	9100.7	17008.9	27895.6	30457.5	28711.5
77.5°	519.2	627.6	1112.6	1112.6	1209.6	3064.0	7203.5	15214.5	14033.4	11685.4
80°	330.9	427.9	972.8	841.6	505.0	778.8	1877.2	4262.2	2981.3	2268.0
82.5°	194.0	279.6	810.2	556.3	282.4	288.1	530.6	907.2	773.1	602.0
85°	77.0	182.6	556.3	219.7	111.3	71.3	159.8	194.0	159.8	119.8
87.5°	0.0	42.8	97.0	0.0	8.6	5.7	11.4	14.3	14.3	11.4
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°
7046.6	0°	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6	7046.6
7052.3	2.5°	7078.0	7083.7	7100.8	7103.7	7063.8	7012.4	6992.4	6983.9	6949.6	6946.8
7098.0	5°	7163.6	7189.3	7163.6	7089.4	6912.6	6664.4	6476.1	6322.0	6182.2	6139.4
7254.9	7.5°	7334.8	7360.5	7283.4	6992.4	6547.4	6053.8	5608.8	5295.0	5012.5	4907.0
7446.0	10°	7580.1	7614.4	7371.9	6784.2	5996.8	5203.7	4450.5	3919.9	3506.2	3337.9
7705.7	12.5°	7888.2	7902.5	7420.4	6467.5	5280.7	4148.1	3081.1	2513.4	2145.4	2008.4
8019.5	15°	8227.7	8207.8	7426.1	6036.7	4305.0	2932.8	2011.3	1651.8	1503.5	1457.8
8333.3	17.5°	8584.3	8501.6	7312.0	5414.8	3235.2	2005.6	1492.1	1406.5	1380.8	1369.4
8644.3	20°	8935.3	8749.8	7103.7	4601.7	2322.3	1497.8	1355.1	1329.4	1315.2	1309.5
8958.1	22.5°	9254.8	8938.1	6747.1	3657.4	1686.1	1323.7	1280.9	1258.1	1232.4	1221.0
9263.3	25°	9565.7	9046.5	6245.0	2775.9	1349.4	1238.2	1203.9	1161.1	1126.9	1112.6
9591.4	27.5°	9868.1	9115.0	5617.3	2054.1	1203.9	1158.3	1095.5	1035.6	1009.9	1004.2
9942.3	30°	10190.5	9137.8	4904.1	1532.0	1115.5	1058.4	967.1	898.7	884.4	887.2
10415.9	32.5°	10584.2	9172.0	4185.2	1255.3	1041.3	938.6	830.2	758.9	747.5	758.9
11106.3	35°	11055.0	9240.5	3491.9	1155.4	975.7	815.9	699.0	639.0	627.6	636.2
11990.7	37.5°	11694.0	9351.8	2844.3	1135.5	921.5	713.2	587.7	539.2	539.2	542.0
13074.8	40°	12544.2	9648.5	2265.2	1121.2	893.0	636.2	496.4	476.4	485.0	490.7
14455.6	42.5°	13579.8	10279.0	1874.3	1104.1	861.6	602.0	450.8	442.2	456.5	462.2
16110.3	45°	14740.9	11077.8	1737.4	1075.5	833.0	624.8	430.8	419.4	436.5	439.3
17964.7	47.5°	15942.0	11859.5	1720.3	1044.2	804.5	659.0	425.1	399.4	419.4	422.2
19944.6	50°	17157.3	12370.1	1737.4	995.7	758.9	659.0	427.9	379.4	396.6	405.1
21998.6	52.5°	18381.2	12604.1	1726.0	890.1	679.0	619.1	427.9	362.3	379.4	385.1
24218.2	55°	19568.0	12558.4	1552.0	733.2	576.3	547.8	416.5	348.1	359.5	362.3
26315.1	57.5°	20506.6	11922.2	1229.6	570.6	467.9	456.5	379.4	330.9	339.5	336.6
28237.9	60°	20997.3	10524.3	878.7	439.3	368.0	359.5	333.8	308.1	313.8	299.6
29866.9	62.5°	21003.0	8675.6	587.7	348.1	293.8	285.3	285.3	276.7	271.0	242.5
31127.9	65°	20555.1	6624.4	390.8	276.7	236.8	222.5	239.6	236.8	216.8	176.9
31513.0	67.5°	19539.4	4342.1	296.7	216.8	182.6	174.0	191.1	199.7	185.4	148.4
30109.4	70°	17451.1	2527.7	245.3	168.3	136.9	128.4	154.1	171.2	154.1	119.8
25735.9	72.5°	14495.5	1363.7	199.7	125.5	94.1	85.6	122.7	139.8	122.7	88.4
16512.5	75°	9406.0	730.3	154.1	82.7	48.5	54.2	91.3	102.7	85.6	57.1
4847.1	77.5°	3158.2	322.4	97.0	39.9	22.8	22.8	54.2	62.8	39.9	20.0
881.5	80°	704.7	134.1	39.9	17.1	8.6	8.6	11.4	11.4	5.7	0.0
271.0	82.5°	231.1	54.2	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
68.5	85°	88.4	20.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.8	87.5°	34.2	2.9	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>
7046.6
6952.5
6113.7
4864.2
3266.6
1965.6
1457.8
1366.5
1303.8
1218.2
1106.9
998.5
887.2
756.0
633.3
539.2
490.7
462.2
442.2
425.1
408.0
385.1
362.3
336.6
296.7
233.9
171.2
145.5
<i>114.1</i>
85.6
51.4
17.1
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