

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: P956796

Luminaire Tested: **GALN-SB9B-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956796
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 38369 lumens
Efficiency: N/A
Efficacy: 116.4 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

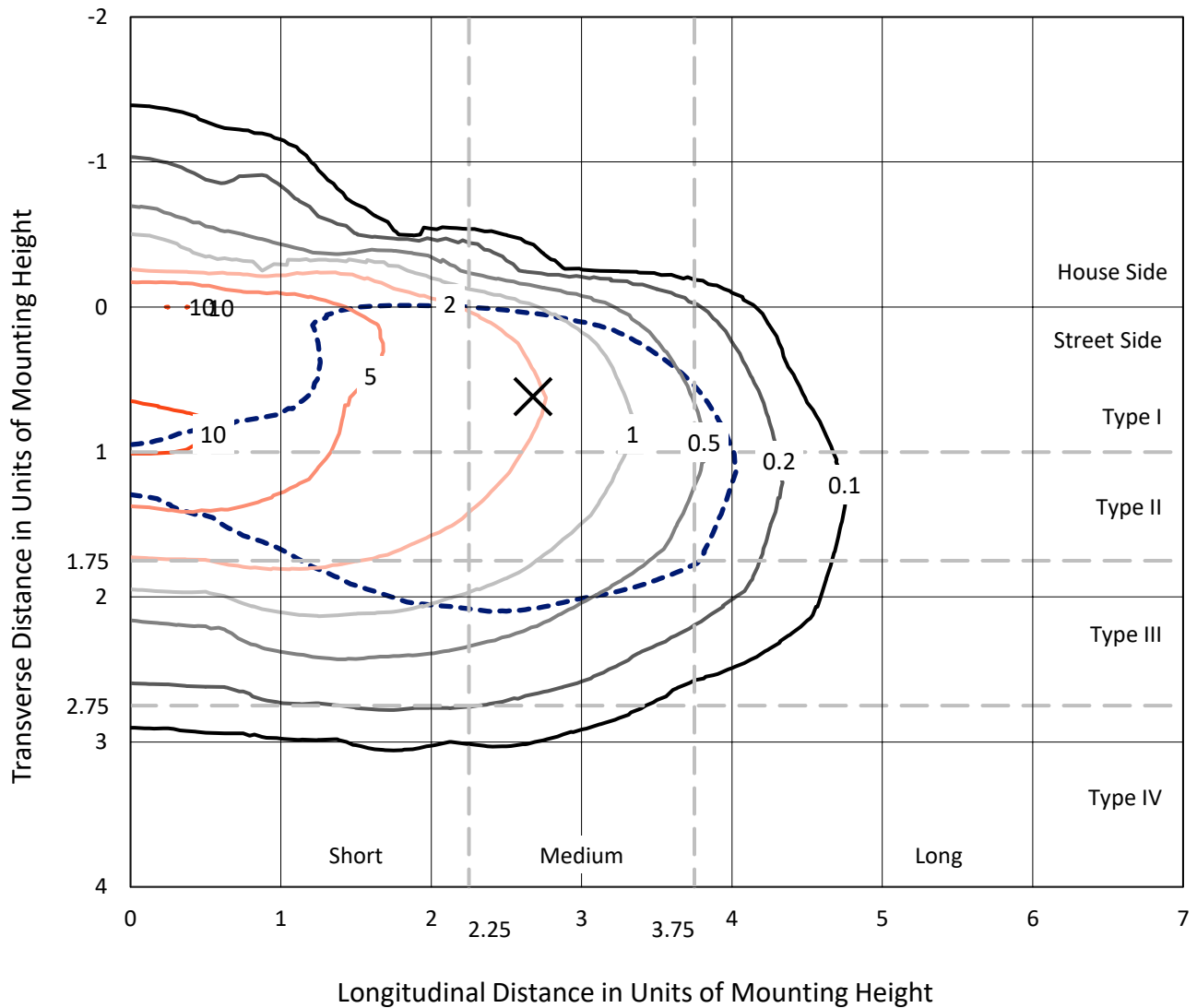
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

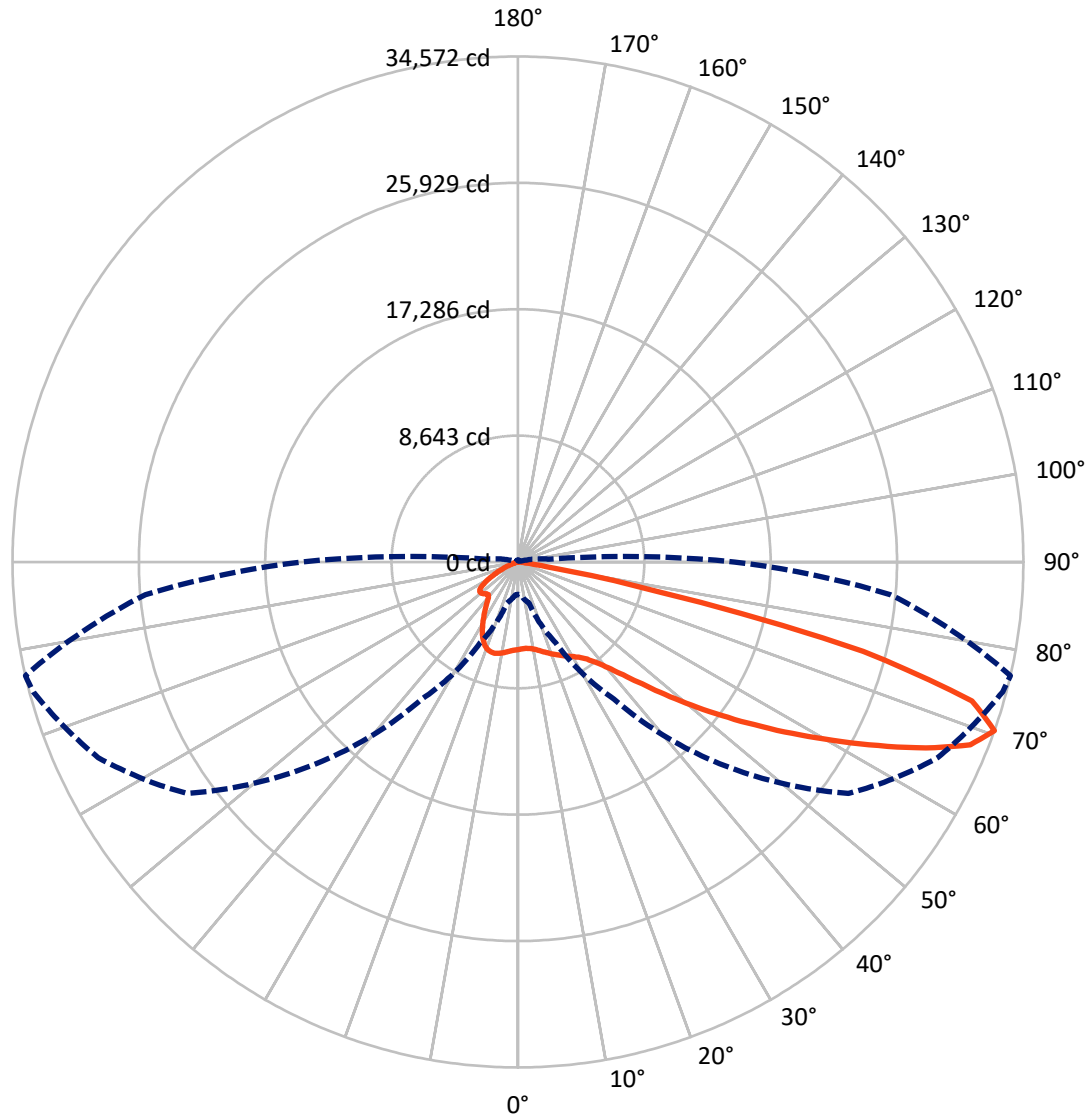
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	4044.6	0.0	4044.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	34324.4	0.0	34324.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	38369.0	0.0	38369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.8	1.3
10°-20°	1224.5	3.2
20°-30°	1893.9	4.9
30°-40°	3436.6	9.0
40°-50°	6486.9	16.9
50°-60°	9373.1	24.4
60°-70°	9977.4	26.0
70°-80°	5287.3	13.8
80°-90°	173.6	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°	38369.0	100.0
0°-180°	38369.0	100.0

Coefficient of Utilization



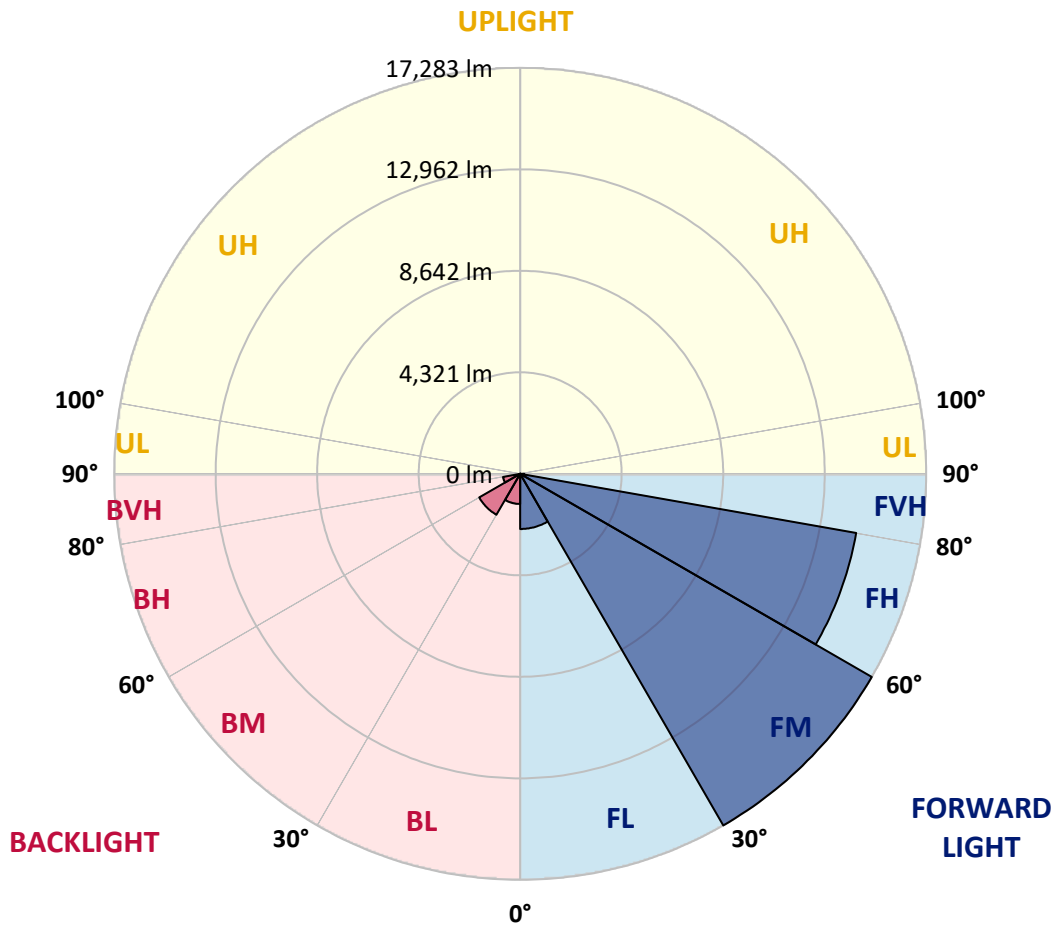
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2349.1	6.1			
FM (30°-60°)	17283.1	45.0			
FH (60°-80°)	14523.2	37.9			G5
FVH (80°-90°)	168.9	0.4			G2/225
BL (0°-30°)	1285.0	3.3	B3/2500		
BM (30°-60°)	2013.4	5.2	B2/2500		
BH (60°-80°)	741.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.7	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°	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9
2.5°	5619.0	5669.9	5662.6	5696.5	5708.6	5757.1	5805.6	5871.0	5943.7	5941.3
5°	5301.6	5352.5	5364.6	5410.6	5468.8	5543.9	5643.2	5774.1	5909.8	5931.6
7.5°	4926.0	4979.3	5010.8	5102.9	5209.5	5364.6	5526.9	5718.3	5943.7	5975.2
10°	4550.4	4598.9	4640.1	4770.9	4940.5	5170.7	5434.8	5711.1	6013.9	6060.0
12.5°	4317.8	4363.9	4409.9	4523.8	4734.6	5015.7	5374.3	5745.0	6130.3	6195.7
15°	4235.4	4276.6	4313.0	4414.8	4611.0	4930.9	5362.2	5815.3	6278.1	6365.3
17.5°	4247.6	4269.4	4293.6	4371.1	4562.6	4892.1	5384.0	5936.4	6452.5	6530.1
20°	4317.8	4329.9	4332.4	4385.7	4555.3	4887.2	5427.6	6052.7	6617.3	6721.5
22.5°	4407.5	4412.3	4407.5	4443.8	4601.3	4923.6	5485.7	6193.3	6801.4	6898.4
25°	4826.7	4734.6	4618.3	4548.0	4678.9	4993.9	5573.0	6382.2	7002.5	7097.0
27.5°	6127.8	5863.7	5447.0	4979.3	4838.8	5095.6	5694.1	6573.7	7206.1	7290.9
30°	8240.7	7894.2	7186.7	6132.7	5352.5	5308.8	5851.6	6765.1	7421.7	7513.8
32.5°	10358.4	10273.6	9457.1	7998.4	6508.2	5783.8	6113.3	7024.3	7707.6	7780.3
35°	12500.4	12328.3	11659.6	10217.9	8289.2	6750.5	6549.4	7363.6	8083.2	8165.6
37.5°	14140.8	14036.6	13622.2	12435.0	10402.0	8243.1	7295.7	7889.4	8628.4	8720.5
40°	15589.7	15541.3	15400.7	14618.1	12764.5	10196.1	8456.4	8703.5	9384.4	9493.4
42.5°	16728.6	16842.4	16922.4	16704.3	15199.6	12425.3	10016.8	9847.2	10438.4	10549.8
45°	17894.0	17932.8	18255.1	18570.1	17617.8	14756.2	11775.9	11187.1	11749.2	11887.4
47.5°	18642.8	18797.8	19364.8	19919.7	19650.7	17067.8	13665.9	12769.3	13268.5	13527.7
50°	18698.5	18991.7	19771.9	20738.7	21131.2	19267.9	15720.6	14572.1	15102.7	15388.6
52.5°	17770.5	18226.0	19435.1	20850.1	21930.8	21131.2	17845.6	16374.8	17055.7	17428.8
55°	13624.7	14220.7	18167.8	20244.4	21962.3	22543.8	19914.8	18252.6	19231.5	19653.2
57.5°	11870.4	12170.9	14283.7	19192.8	21378.3	23113.2	21785.4	20040.8	21598.8	22122.2
60°	9876.2	10271.2	11979.4	17472.4	20586.0	23169.0	23437.9	22347.6	24164.8	24753.6
62.5°	6711.8	7140.7	8839.2	14516.3	19502.9	23142.3	24792.4	24722.1	27016.7	27649.1
65°	4157.9	4426.9	5546.3	11853.4	17988.5	23171.4	26209.9	27605.5	30026.1	30668.2
67.5°	3285.6	3409.2	3993.1	9100.9	15378.9	22517.2	27624.9	30316.9	32858.6	33367.5
70°	2207.4	2282.5	2905.2	6101.2	11441.5	19498.1	27598.3	31678.6	34317.3	34571.7
72.5°	1163.1	1221.2	1698.5	2825.2	6910.5	13859.7	23263.5	30050.4	32865.9	32483.1
75°	581.5	678.4	1143.7	1434.4	2951.2	7729.4	14446.1	23692.3	25868.2	24385.3
77.5°	441.0	533.1	945.0	945.0	1027.4	2602.3	6118.1	12922.0	11918.9	9924.7
80°	281.1	363.5	826.3	714.8	428.9	661.5	1594.4	3620.0	2532.1	1926.3
82.5°	164.8	237.5	688.1	472.5	239.9	244.7	450.7	770.5	656.6	511.3
85°	65.4	155.1	472.5	186.6	94.5	60.6	135.7	164.8	135.7	101.8
87.5°	0.0	36.3	82.4	0.0	7.3	4.8	9.7	12.1	12.1	9.7
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°
5984.9	0°	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9	5984.9
5989.7	2.5°	6011.5	6016.4	6030.9	6033.3	5999.4	5955.8	5938.8	5931.6	5902.5	5900.1
6028.5	5°	6084.2	6106.0	6084.2	6021.2	5871.0	5660.2	5500.3	5369.4	5250.7	5214.3
6161.8	7.5°	6229.6	6251.4	6186.0	5938.8	5560.8	5141.7	4763.7	4497.1	4257.3	4167.6
6324.1	10°	6438.0	6467.1	6261.1	5762.0	5093.2	4419.6	3779.9	3329.2	2977.9	2834.9
6544.6	12.5°	6699.7	6711.8	6302.3	5493.0	4485.0	3523.1	2616.9	2134.7	1822.1	1705.8
6811.1	15°	6988.0	6971.0	6307.1	5127.1	3656.3	2490.9	1708.2	1402.9	1276.9	1238.2
7077.7	17.5°	7290.9	7220.6	6210.2	4598.9	2747.7	1703.4	1267.2	1194.6	1172.7	1163.1
7341.8	20°	7588.9	7431.4	6033.3	3908.3	1972.3	1272.1	1150.9	1129.1	1117.0	1112.2
7608.3	22.5°	7860.3	7591.3	5730.5	3106.3	1432.0	1124.3	1087.9	1068.6	1046.7	1037.1
7867.6	25°	8124.4	7683.4	5304.0	2357.6	1146.1	1051.6	1022.5	986.2	957.1	945.0
8146.2	27.5°	8381.2	7741.6	4770.9	1744.6	1022.5	983.7	930.4	879.6	857.8	852.9
8444.2	30°	8655.0	7760.9	4165.2	1301.2	947.4	898.9	821.4	763.3	751.1	753.6
8846.5	32.5°	8989.4	7790.0	3554.6	1066.1	884.4	797.2	705.1	644.5	634.8	644.5
9432.8	35°	9389.2	7848.2	2965.8	981.3	828.7	693.0	593.6	542.8	533.1	540.3
10184.0	37.5°	9932.0	7942.7	2415.8	964.4	782.6	605.8	499.1	458.0	458.0	460.4
11104.7	40°	10654.0	8194.7	1923.9	952.2	758.4	540.3	421.6	404.6	411.9	416.8
12277.5	42.5°	11533.6	8730.2	1591.9	937.7	731.8	511.3	382.8	375.6	387.7	392.5
13682.8	45°	12519.8	9408.6	1475.6	913.5	707.5	530.6	365.9	356.2	370.7	373.1
15257.8	47.5°	13539.9	10072.5	1461.1	886.8	683.3	559.7	361.0	339.2	356.2	358.6
16939.4	50°	14572.1	10506.2	1475.6	845.6	644.5	559.7	363.5	322.3	336.8	344.1
18683.9	52.5°	15611.5	10704.9	1465.9	756.0	576.7	525.8	363.5	307.7	322.3	327.1
20569.1	55°	16619.5	10666.2	1318.1	622.7	489.5	465.2	353.8	295.6	305.3	307.7
22350.0	57.5°	17416.7	10125.8	1044.3	484.6	397.4	387.7	322.3	281.1	288.3	285.9
23983.1	60°	17833.5	8938.5	746.3	373.1	312.6	305.3	283.5	261.7	266.5	254.4
25366.6	62.5°	17838.3	7368.4	499.1	295.6	249.6	242.3	242.3	235.0	230.2	206.0
26437.6	65°	17457.9	5626.3	332.0	235.0	201.1	189.0	203.5	201.1	184.1	150.2
26764.7	67.5°	16595.3	3687.8	252.0	184.1	155.1	147.8	162.3	169.6	157.5	126.0
25572.6	70°	14821.6	2146.8	208.4	143.0	116.3	109.0	130.8	145.4	130.8	101.8
21858.1	72.5°	12311.4	1158.2	169.6	106.6	80.0	72.7	104.2	118.7	104.2	75.1
14024.5	75°	7988.7	620.3	130.8	70.3	41.2	46.0	77.5	87.2	72.7	48.5
4116.7	77.5°	2682.3	273.8	82.4	33.9	19.4	19.4	46.0	53.3	33.9	17.0
748.7	80°	598.5	113.9	33.9	14.5	7.3	7.3	9.7	9.7	4.8	0.0
230.2	82.5°	196.3	46.0	14.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
58.2	85°	75.1	17.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.4	87.5°	29.1	2.4	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>
5984.9
5904.9
5192.5
4131.3
2774.4
1669.5
1238.2
1160.6
1107.3
1034.6
940.1
848.1
753.6
642.1
537.9
458.0
416.8
392.5
375.6
361.0
346.5
327.1
307.7
285.9
252.0
198.7
145.4
123.6
96.9
72.7
43.6
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