

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: P951798

Luminaire Tested: **GALN-SB5D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951798
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-SB5D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA 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: 38454 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

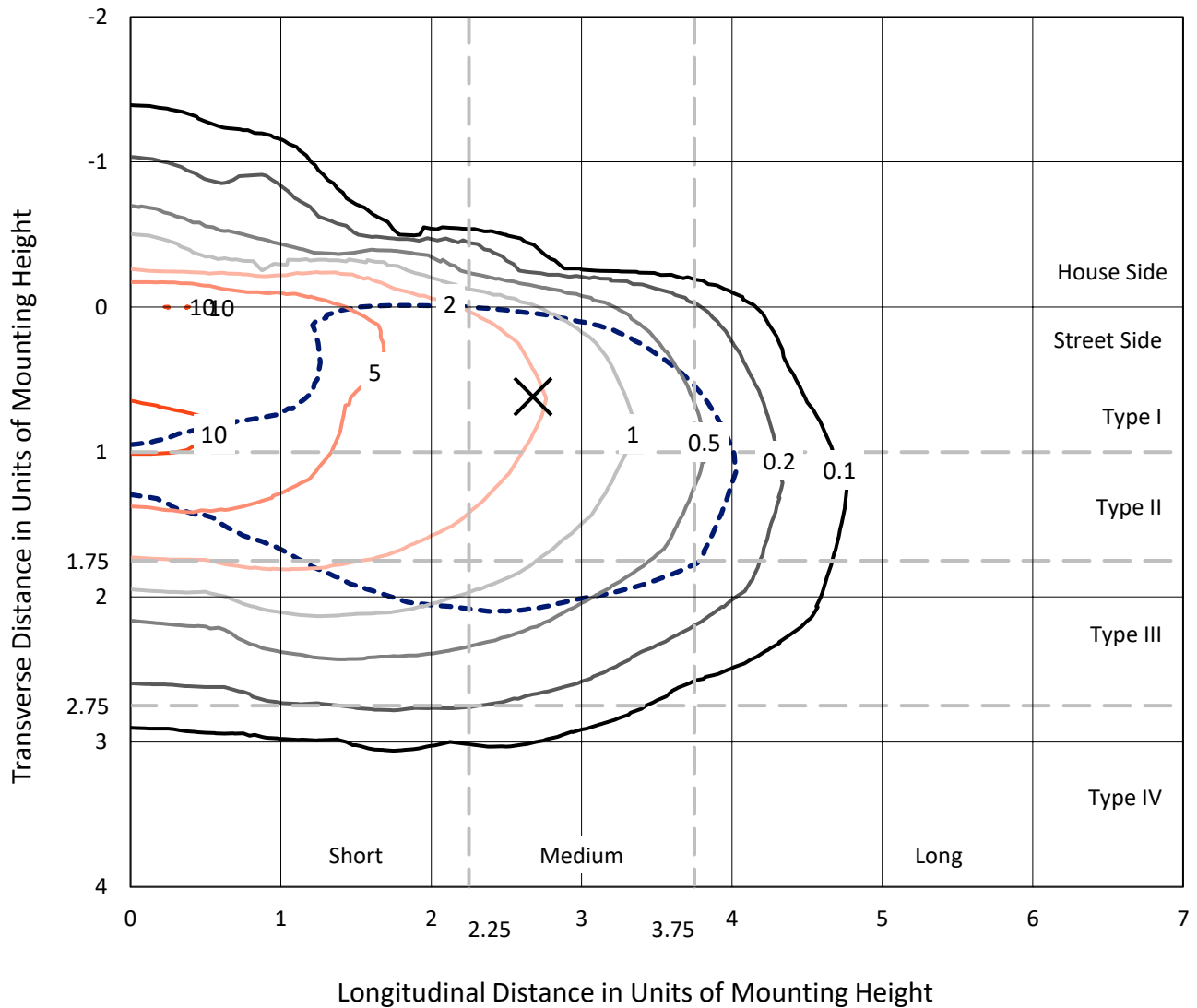
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

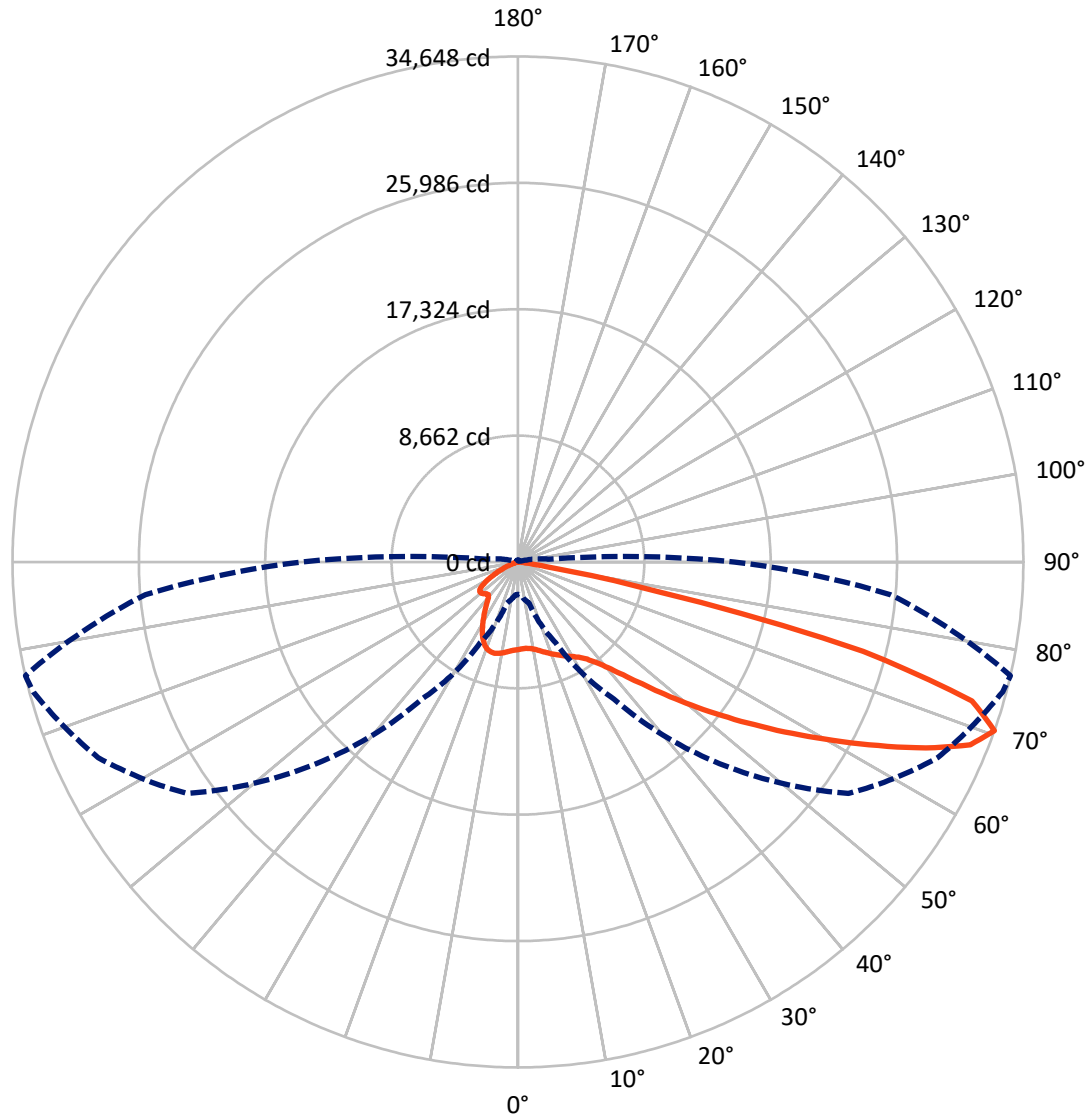
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	4053.6	0.0	4053.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	34400.4	0.0	34400.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	38454.0	0.0	38454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.9	1.3
10°-20°	1227.2	3.2
20°-30°	1898.1	4.9
30°-40°	3444.2	9.0
40°-50°	6501.3	16.9
50°-60°	9393.8	24.4
60°-70°	9999.5	26.0
70°-80°	5299.0	13.8
80°-90°	174.0	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°	38454.0	100.0
0°-180°	38454.0	100.0

Coefficient of Utilization



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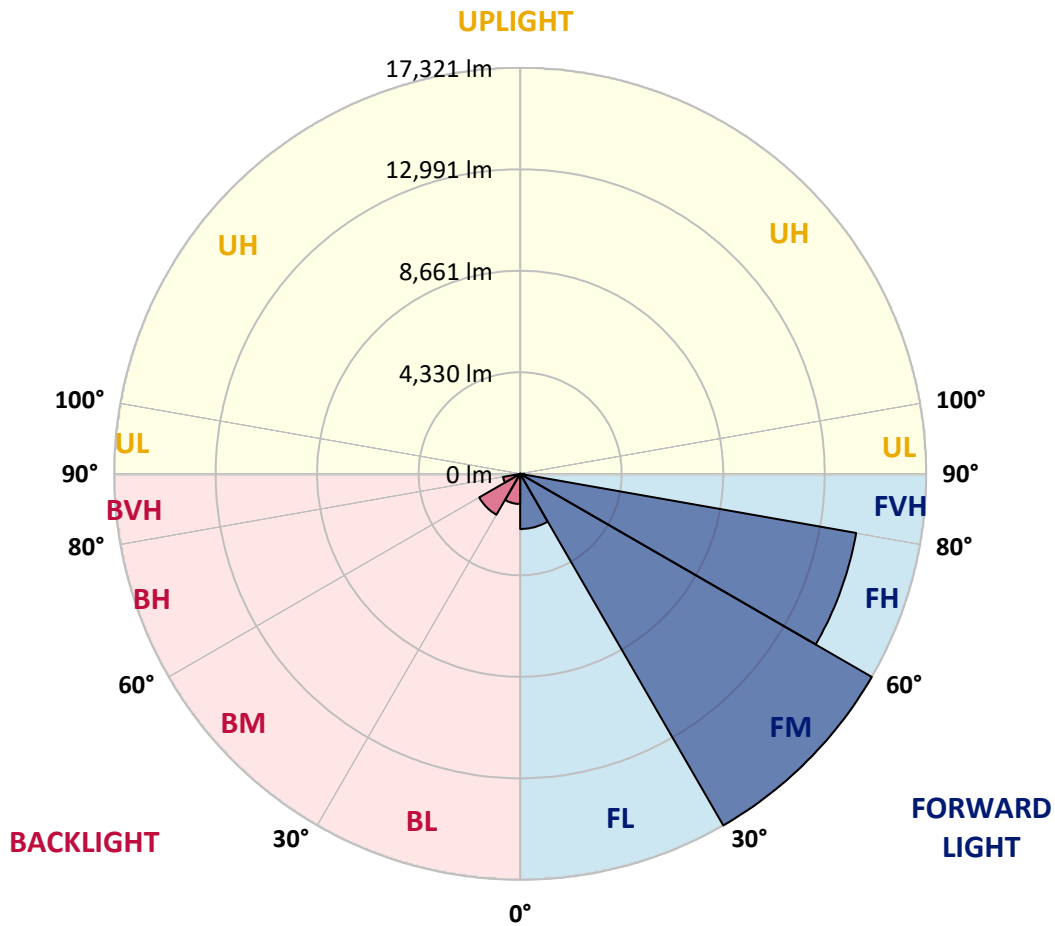
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2354.3	6.1			
FM (30°-60°)	17321.4	45.0			
FH (60°-80°)	14555.4	37.9			G5
FVH (80°-90°)	169.3	0.4			G2/225
BL (0°-30°)	1287.9	3.3	B3/2500		
BM (30°-60°)	2017.9	5.2	B2/2500		
BH (60°-80°)	743.1	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°	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1
2.5°	5631.4	5682.4	5675.2	5709.2	5721.3	5769.9	5818.4	5884.0	5956.8	5954.4
5°	5313.3	5364.3	5376.5	5422.6	5480.9	5556.2	5655.7	5786.9	5922.8	5944.7
7.5°	4936.9	4990.3	5021.9	5114.2	5221.0	5376.5	5539.2	5731.0	5956.8	5988.4
10°	4560.5	4609.1	4650.4	4781.5	4951.5	5182.2	5446.9	5723.7	6027.3	6073.4
12.5°	4327.4	4373.5	4419.7	4533.8	4745.1	5026.8	5386.2	5757.7	6143.8	6209.4
15°	4244.8	4286.1	4322.5	4424.5	4621.2	4941.8	5374.0	5828.1	6292.0	6379.4
17.5°	4257.0	4278.8	4303.1	4380.8	4572.7	4902.9	5395.9	5949.6	6466.8	6544.5
20°	4327.4	4339.5	4342.0	4395.4	4565.4	4898.1	5439.6	6066.1	6631.9	6736.4
22.5°	4417.2	4422.1	4417.2	4453.7	4611.5	4934.5	5497.9	6207.0	6816.5	6913.6
25°	4837.4	4745.1	4628.5	4558.1	4689.2	5004.9	5585.3	6396.4	7018.1	7112.8
27.5°	6141.4	5876.7	5459.0	4990.3	4849.5	5106.9	5706.7	6588.2	7222.0	7307.0
30°	8259.0	7911.7	7202.6	6146.3	5364.3	5320.6	5864.6	6780.1	7438.2	7530.4
32.5°	10381.4	10296.4	9478.0	8016.1	6522.7	5796.6	6126.8	7039.9	7724.7	7797.6
35°	12528.1	12355.7	11685.4	10240.5	8307.5	6765.5	6563.9	7379.9	8101.1	8183.7
37.5°	14172.1	14067.7	13652.4	12462.5	10425.1	8261.4	7311.9	7906.8	8647.5	8739.8
40°	15624.3	15575.7	15434.9	14650.5	12792.8	10218.7	8475.1	8722.8	9405.2	9514.4
42.5°	16765.6	16879.8	16959.9	16741.3	15233.3	12452.8	10039.0	9869.0	10461.5	10573.2
45°	17933.7	17972.5	18295.5	18611.2	17656.8	14788.9	11802.0	11211.9	11775.3	11913.7
47.5°	18684.1	18839.5	19407.7	19963.8	19694.3	17105.6	13696.1	12797.6	13297.9	13557.7
50°	18739.9	19033.7	19815.7	20784.6	21178.0	19310.6	15755.4	14604.4	15136.2	15422.7
52.5°	17809.8	18266.4	19478.1	20896.3	21979.4	21178.0	17885.1	16411.1	17093.5	17467.4
55°	13654.9	14252.2	18208.1	20289.2	22010.9	22593.8	19959.0	18293.1	19274.2	19696.7
57.5°	11896.7	12197.8	14315.4	19235.3	21425.7	23164.4	21833.7	20085.2	21646.7	22171.2
60°	9898.1	10294.0	12006.0	17511.1	20631.6	23220.3	23489.8	22397.1	24218.4	24808.5
62.5°	6726.6	7156.5	8858.8	14548.5	19546.1	23193.6	24847.3	24776.9	27076.6	27710.4
65°	4167.1	4436.7	5558.6	11879.7	18028.4	23222.7	26267.9	27666.7	30092.6	30736.2
67.5°	3292.9	3416.7	4002.0	9121.0	15413.0	22567.1	27686.1	30384.0	32931.4	33441.4
70°	2212.3	2287.5	2911.6	6114.7	11466.9	19541.3	27659.4	31748.8	34393.3	34648.3
72.5°	1165.6	1223.9	1702.3	2831.5	6925.8	13890.4	23315.0	30116.9	32938.7	32555.0
75°	582.8	679.9	1146.2	1437.6	2957.8	7746.6	14478.1	23744.8	25925.5	24439.3
77.5°	442.0	534.2	947.1	947.1	1029.6	2608.1	6131.7	12950.6	11945.3	9946.7
80°	281.7	364.3	828.1	716.4	429.8	663.0	1597.9	3628.0	2537.7	1930.6
82.5°	165.1	238.0	689.7	473.5	240.4	245.3	451.7	772.2	658.1	512.4
85°	65.6	155.4	473.5	187.0	94.7	60.7	136.0	165.1	136.0	102.0
87.5°	0.0	36.4	82.6	0.0	7.3	4.9	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°
5998.1	0°	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1	5998.1
6003.0	2.5°	6024.8	6029.7	6044.3	6046.7	6012.7	5969.0	5952.0	5944.7	5915.6	5913.1
6041.8	5°	6097.7	6119.5	6097.7	6034.6	5884.0	5672.7	5512.5	5381.3	5262.3	5225.9
6175.4	7.5°	6243.4	6265.3	6199.7	5952.0	5573.2	5153.0	4774.2	4507.1	4266.7	4176.8
6338.1	10°	6452.2	6481.4	6275.0	5774.7	5104.5	4429.4	3788.3	3336.6	2984.5	2841.2
6559.1	12.5°	6714.5	6726.6	6316.2	5505.2	4495.0	3530.9	2622.7	2139.4	1826.2	1709.6
6826.2	15°	7003.5	6986.5	6321.1	5138.5	3664.4	2496.4	1712.0	1406.0	1279.8	1240.9
7093.3	17.5°	7307.0	7236.6	6224.0	4609.1	2753.8	1707.2	1270.0	1197.2	1175.3	1165.6
7358.0	20°	7605.7	7447.9	6046.7	3917.0	1976.7	1274.9	1153.5	1131.6	1119.5	1114.6
7625.2	22.5°	7877.7	7608.2	5743.1	3113.2	1435.2	1126.8	1090.3	1070.9	1049.1	1039.4
7885.0	25°	8142.4	7700.4	5315.8	2362.8	1148.6	1053.9	1024.8	988.4	959.2	947.1
8164.3	27.5°	8399.8	7758.7	4781.5	1748.4	1024.8	985.9	932.5	881.5	859.7	854.8
8462.9	30°	8674.2	7778.1	4174.4	1304.0	949.5	900.9	823.2	764.9	752.8	755.2
8866.1	32.5°	9009.3	7807.3	3562.5	1068.5	886.4	798.9	706.7	646.0	636.2	646.0
9453.7	35°	9410.0	7865.6	2972.4	983.5	830.5	694.5	595.0	544.0	534.2	541.5
10206.5	37.5°	9954.0	7960.3	2421.1	966.5	784.4	607.1	500.2	459.0	459.0	461.4
11129.3	40°	10677.6	8212.8	1928.1	954.4	760.1	541.5	422.5	405.5	412.8	417.7
12304.7	42.5°	11559.1	8749.5	1595.5	939.8	733.4	512.4	383.7	376.4	388.5	393.4
13713.1	45°	12547.5	9429.4	1478.9	915.5	709.1	531.8	366.7	357.0	371.5	374.0
15291.6	47.5°	13569.9	10094.8	1464.3	888.8	684.8	561.0	361.8	340.0	357.0	359.4
16976.9	50°	14604.4	10529.5	1478.9	847.5	646.0	561.0	364.3	323.0	337.5	344.8
18725.3	52.5°	15646.1	10728.6	1469.2	757.7	578.0	527.0	364.3	308.4	323.0	327.8
20614.6	55°	16656.3	10689.8	1321.0	624.1	490.5	466.3	354.5	296.3	306.0	308.4
22399.5	57.5°	17455.3	10148.3	1046.6	485.7	398.3	388.5	323.0	281.7	289.0	286.6
24036.2	60°	17873.0	8958.3	747.9	374.0	313.3	306.0	284.1	262.3	267.1	255.0
25422.8	62.5°	17877.8	7384.7	500.2	296.3	250.1	242.8	242.8	235.6	230.7	206.4
26496.2	65°	17496.6	5638.7	332.7	235.6	201.6	189.4	204.0	201.6	184.6	150.6
26824.0	67.5°	16632.1	3696.0	252.6	184.6	155.4	148.1	162.7	170.0	157.8	126.3
25629.3	70°	14854.5	2151.6	208.8	143.3	116.6	109.3	131.1	145.7	131.1	102.0
21906.5	72.5°	12338.7	1160.8	170.0	106.8	80.1	72.9	104.4	119.0	104.4	75.3
14055.5	75°	8006.4	621.7	131.1	70.4	41.3	46.1	77.7	87.4	72.9	48.6
4125.8	77.5°	2688.2	274.4	82.6	34.0	19.4	19.4	46.1	53.4	34.0	17.0
750.4	80°	599.8	114.1	34.0	14.6	7.3	7.3	9.7	9.7	4.9	0.0
230.7	82.5°	196.7	46.1	14.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
58.3	85°	75.3	17.0	4.9	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>
5998.1
5918.0
5204.0
4140.4
2780.5
1673.2
1240.9
1163.2
1109.8
1036.9
942.2
849.9
755.2
643.5
539.1
459.0
417.7
393.4
376.4
361.8
347.3
327.8
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286.6
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