

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: P955870

Luminaire Tested: **GALN-SB8C-940-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-940-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

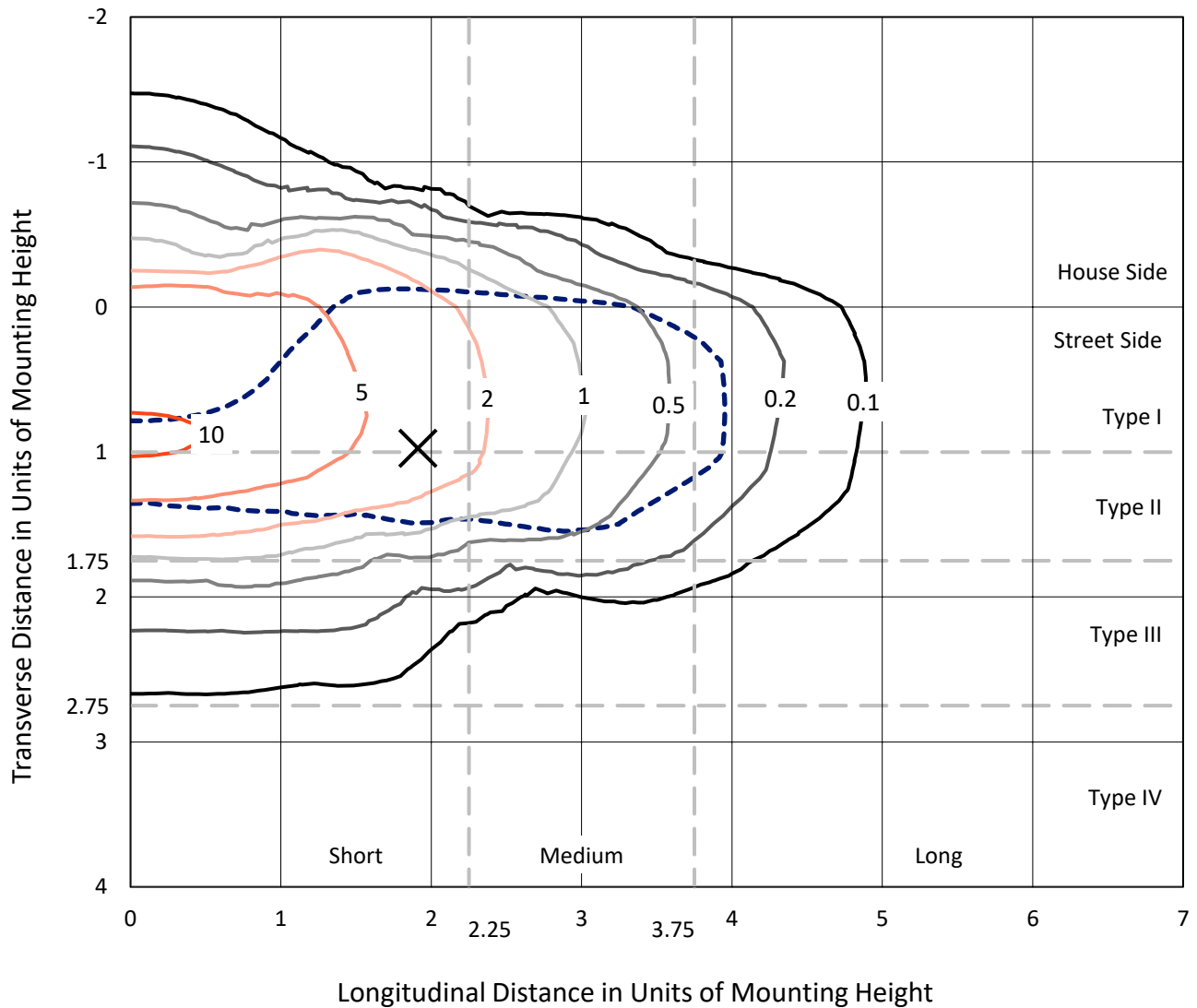
Lumens per Lamp: N/A  
Luminaire Lumens: 33537 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

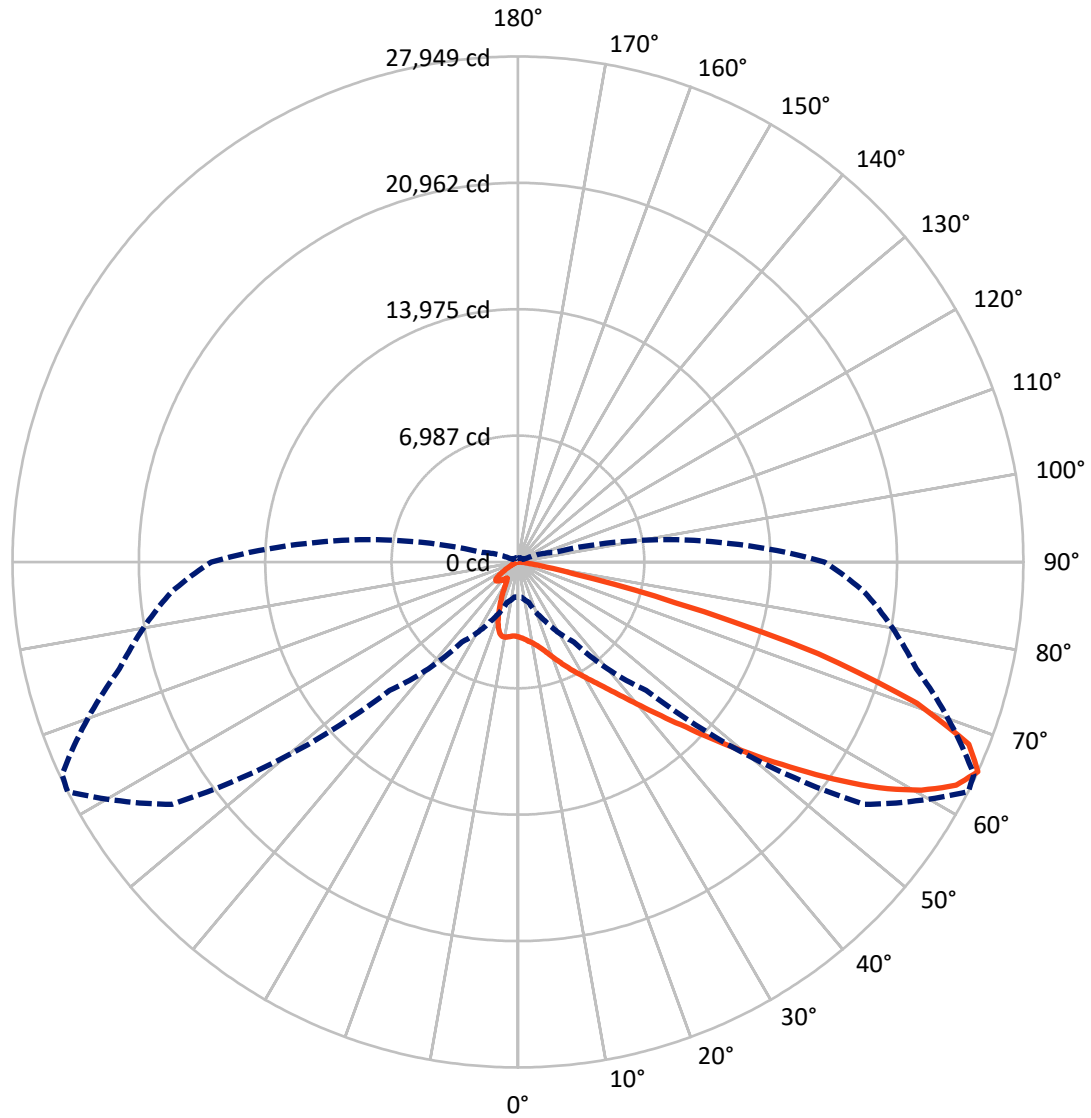
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4929.7	0.0	4929.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	28607.3	0.0	28607.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	33537.0	0.0	33537.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.0	1.2
10°-20°	1082.1	3.2
20°-30°	1884.1	5.6
30°-40°	3396.0	10.1
40°-50°	6735.2	20.1
50°-60°	9174.5	27.4
60°-70°	7323.0	21.8
70°-80°	3313.8	9.9
80°-90°	238.2	0.7
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°	33537.0	100.0
0°-180°	33537.0	100.0

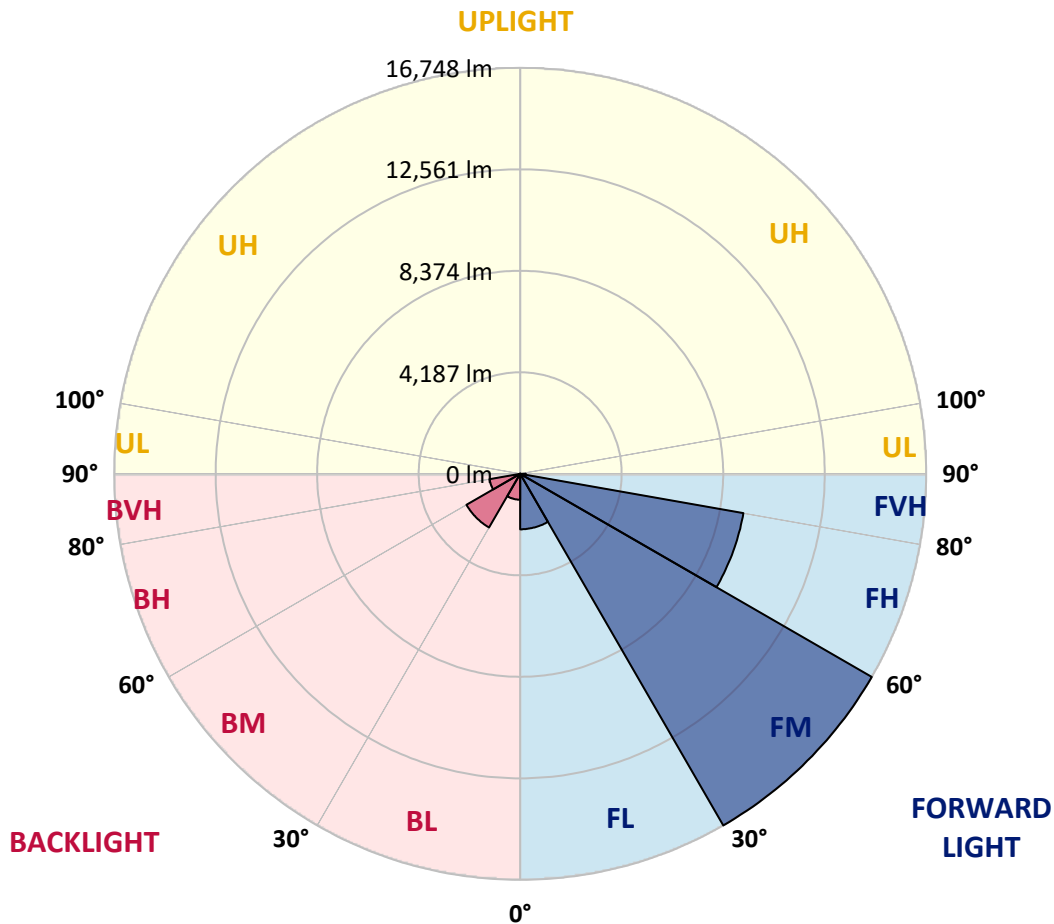


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.3	6.8			
FM (30°-60°)	16747.5	49.9			
FH (60°-80°)	9350.0	27.9			G4/12000
FVH (80°-90°)	220.5	0.7			G2/225
BL (0°-30°)	1066.9	3.2	B3/2500		
BM (30°-60°)	2558.2	7.6	B3/5000		
BH (60°-80°)	1286.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	17.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1
2.5°	4236.0	4224.5	4240.6	4233.7	4229.1	4219.9	4215.2	4210.6	4201.4	4194.5
5°	4247.5	4240.6	4256.8	4270.6	4284.5	4298.3	4305.2	4314.4	4305.2	4286.8
7.5°	4150.6	4146.0	4180.6	4222.2	4284.5	4337.5	4395.2	4427.5	4429.8	4422.9
10°	4143.7	4132.2	4166.8	4217.5	4298.3	4392.9	4494.4	4563.6	4572.9	4602.8
12.5°	4252.2	4240.6	4289.1	4344.4	4427.5	4526.7	4651.3	4748.2	4762.0	4803.6
15°	4434.4	4418.3	4473.6	4545.2	4651.3	4764.3	4895.9	4983.5	4995.1	5045.8
17.5°	4646.7	4630.5	4695.1	4771.3	4886.6	5041.2	5193.5	5290.4	5304.2	5336.5
20°	4918.9	4898.2	4948.9	5018.1	5140.4	5325.0	5507.3	5645.7	5643.4	5643.4
22.5°	5235.0	5202.7	5246.6	5301.9	5417.3	5641.1	5883.3	6047.1	6047.1	5982.5
25°	5574.2	5541.9	5590.3	5641.1	5742.6	5996.4	6280.2	6483.2	6492.4	6381.7
27.5°	5998.7	5957.2	5994.1	6054.1	6114.1	6372.5	6709.3	6944.6	6949.3	6778.5
30°	6815.4	6697.8	6582.4	6517.8	6545.5	6801.6	7161.5	7422.2	7445.3	7210.0
32.5°	8310.5	8287.4	7881.4	7350.7	7073.8	7263.0	7666.8	7980.6	7994.4	7692.2
35°	10633.8	10606.2	9953.2	8942.7	8040.6	7881.4	8280.5	8652.0	8642.7	8301.3
37.5°	13407.1	13381.7	12521.1	11169.1	9708.7	8815.8	9071.9	9461.8	9519.5	9071.9
40°	15776.6	15682.0	15137.5	13833.9	11923.6	10366.2	10197.8	10456.2	10516.2	9985.5
42.5°	17571.6	17490.8	17213.9	16399.5	14604.5	12659.6	11524.4	11623.6	11690.5	11053.7
45°	18501.4	18482.9	18593.6	18517.5	17336.2	15474.3	13420.9	13007.9	13033.3	12237.3
47.5°	18632.9	18623.6	19128.9	19844.1	19684.9	18649.0	15855.0	14733.7	14643.7	13573.2
50°	17857.7	17839.2	18808.2	20148.7	21253.8	21316.1	18619.0	16678.7	16480.3	14955.2
52.5°	15382.0	15377.4	16969.4	19200.4	21805.3	23651.0	21350.7	18815.1	18482.9	16418.0
55°	11835.9	11921.3	13746.2	16383.4	20799.3	24774.6	23803.3	21186.9	20677.0	17890.0
57.5°	8384.3	8508.9	10313.1	12661.9	17680.0	24110.1	25462.2	23563.3	23014.2	19357.3
60°	4503.6	4614.4	6420.9	9224.1	13153.3	21632.2	26336.6	25626.0	25106.8	20750.9
62.5°	2683.3	2720.2	3467.7	5954.9	8896.5	16526.4	25965.1	27197.2	26770.3	21920.6
65°	1926.5	1933.4	2309.5	3636.1	5401.1	10040.9	23360.3	27949.3	27817.8	22802.0
67.5°	1622.0	1617.3	1774.2	2415.6	3680.0	5029.7	17903.8	26885.7	27444.0	23360.3
70°	1391.2	1398.2	1582.7	1769.6	2766.3	2847.1	8901.1	23408.8	24599.3	23508.0
72.5°	1035.9	1059.0	1229.7	1612.7	2088.0	1958.8	3073.2	17357.0	19509.6	22149.0
75°	731.4	742.9	865.2	1356.6	1557.4	1425.8	1568.9	8972.7	11732.1	16980.9
77.5°	563.0	583.7	655.2	948.3	1534.3	1001.3	959.8	3105.5	4771.3	10257.8
80°	304.5	341.5	473.0	685.2	1077.5	708.3	475.3	1236.7	1617.3	4796.6
82.5°	156.9	175.3	329.9	493.7	613.7	618.3	235.3	514.5	666.8	1481.2
85°	62.3	76.1	221.5	272.2	316.1	304.5	106.1	207.6	239.9	410.7
87.5°	13.8	23.1	80.8	62.3	60.0	64.6	25.4	48.5	46.1	48.5
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°
4139.1	0°	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1	4139.1
4166.8	2.5°	4164.5	4155.2	4129.9	4102.2	4069.9	4051.4	4039.9	4037.6	4021.4	4009.9
4259.1	5°	4233.7	4224.5	4176.0	4118.3	4056.0	4007.6	3961.4	3919.9	3859.9	3848.4
4392.9	7.5°	4372.1	4346.7	4268.3	4189.9	4072.2	3931.5	3760.7	3564.6	3389.3	3336.2
4570.5	10°	4542.9	4508.2	4409.0	4270.6	4009.9	3626.9	3213.9	2830.9	2526.4	2441.0
4780.5	12.5°	4736.7	4706.7	4575.2	4319.1	3749.2	3054.7	2422.5	1947.3	1651.9	1578.1
5004.3	15°	4967.4	4923.5	4741.3	4245.2	3283.1	2321.0	1663.5	1382.0	1275.9	1262.0
5260.4	17.5°	5211.9	5140.4	4888.9	3979.9	2655.6	1649.6	1285.1	1204.4	1158.2	1144.4
5518.8	20°	5435.7	5343.5	4976.6	3578.5	1984.2	1285.1	1151.3	1098.2	1056.7	1040.5
5777.2	22.5°	5659.5	5528.0	4976.6	3031.6	1488.1	1139.8	1056.7	1008.2	959.8	939.0
6054.1	25°	5892.6	5717.2	4888.9	2422.5	1197.4	1045.2	966.7	913.6	872.1	846.7
6317.1	27.5°	6118.7	5876.4	4688.2	1845.8	1065.9	962.1	883.7	832.9	793.7	775.2
6603.2	30°	6333.2	6033.3	4406.7	1400.5	980.6	881.3	807.5	763.7	724.5	706.0
6974.6	32.5°	6623.9	6231.7	4106.8	1149.0	906.7	805.2	738.3	696.8	662.2	648.3
7456.8	35°	7027.7	6524.7	3848.4	1128.2	844.4	742.9	676.0	636.8	602.2	590.6
8079.8	37.5°	7599.9	6997.7	3712.3	1266.6	793.7	687.5	625.2	583.7	551.4	542.2
8871.1	40°	8305.9	7639.1	3786.1	1405.1	759.1	639.1	579.1	537.6	509.9	498.4
9780.2	42.5°	9143.4	8430.5	4194.5	1511.2	736.0	597.6	535.3	489.1	470.7	466.1
10811.5	45°	10105.5	9300.3	4819.7	1624.3	699.1	558.3	491.4	456.8	443.0	440.7
11932.8	47.5°	11199.1	10255.5	5544.2	1765.0	662.2	521.4	456.8	433.8	422.2	417.6
13102.5	50°	12283.5	11217.6	6289.4	1843.4	632.2	486.8	429.1	410.7	401.5	399.1
14339.2	52.5°	13418.6	12207.3	6891.6	1769.6	606.8	459.1	406.1	392.2	383.0	380.7
15478.9	55°	14500.7	13007.9	6995.4	1502.0	556.0	431.4	380.7	373.8	362.2	362.2
16634.8	57.5°	15432.8	13409.4	6261.7	1102.8	505.3	389.9	355.3	348.4	339.2	336.8
17677.7	60°	16288.8	13294.0	4833.6	742.9	449.9	348.4	323.0	318.4	309.2	297.6
18584.4	62.5°	16771.0	12786.4	3306.2	484.5	394.5	304.5	286.1	283.8	263.0	239.9
19255.8	65°	16953.2	11743.6	2062.6	353.0	329.9	260.7	246.9	242.3	212.3	186.9
19636.5	67.5°	16794.0	10027.0	1040.5	279.2	260.7	216.9	203.0	203.0	182.3	159.2
19613.4	70°	16157.3	7516.8	438.4	223.8	200.7	166.1	166.1	175.3	154.6	129.2
18596.0	72.5°	14775.2	5057.4	233.0	170.7	150.0	117.7	136.1	143.0	122.3	96.9
15220.5	75°	11745.9	3084.7	161.5	126.9	94.6	83.1	103.8	108.4	83.1	64.6
10435.4	77.5°	8033.6	1771.9	108.4	80.8	60.0	48.5	71.5	66.9	43.8	30.0
4023.7	80°	3527.7	738.3	62.3	36.9	23.1	18.5	25.4	18.5	13.8	9.2
551.4	82.5°	413.0	173.0	23.1	13.8	9.2	4.6	2.3	0.0	0.0	0.0
168.4	85°	85.4	20.8	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0
30.0	87.5°	16.2	4.6	2.3	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>
4139.1
4021.4
3843.8
3310.8
2408.7
1557.4
1248.2
1137.4
1031.3
927.5
837.5
775.2
708.3
648.3
590.6
539.9
496.0
466.1
438.4
417.6
399.1
380.7
359.9
334.5
295.3
235.3
184.6
156.9
126.9
96.9
62.3
32.3
9.2
0.0
0.0
0.0
0.0

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