

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: P951945

Luminaire Tested: **GALN-SB5D-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951945  
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-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

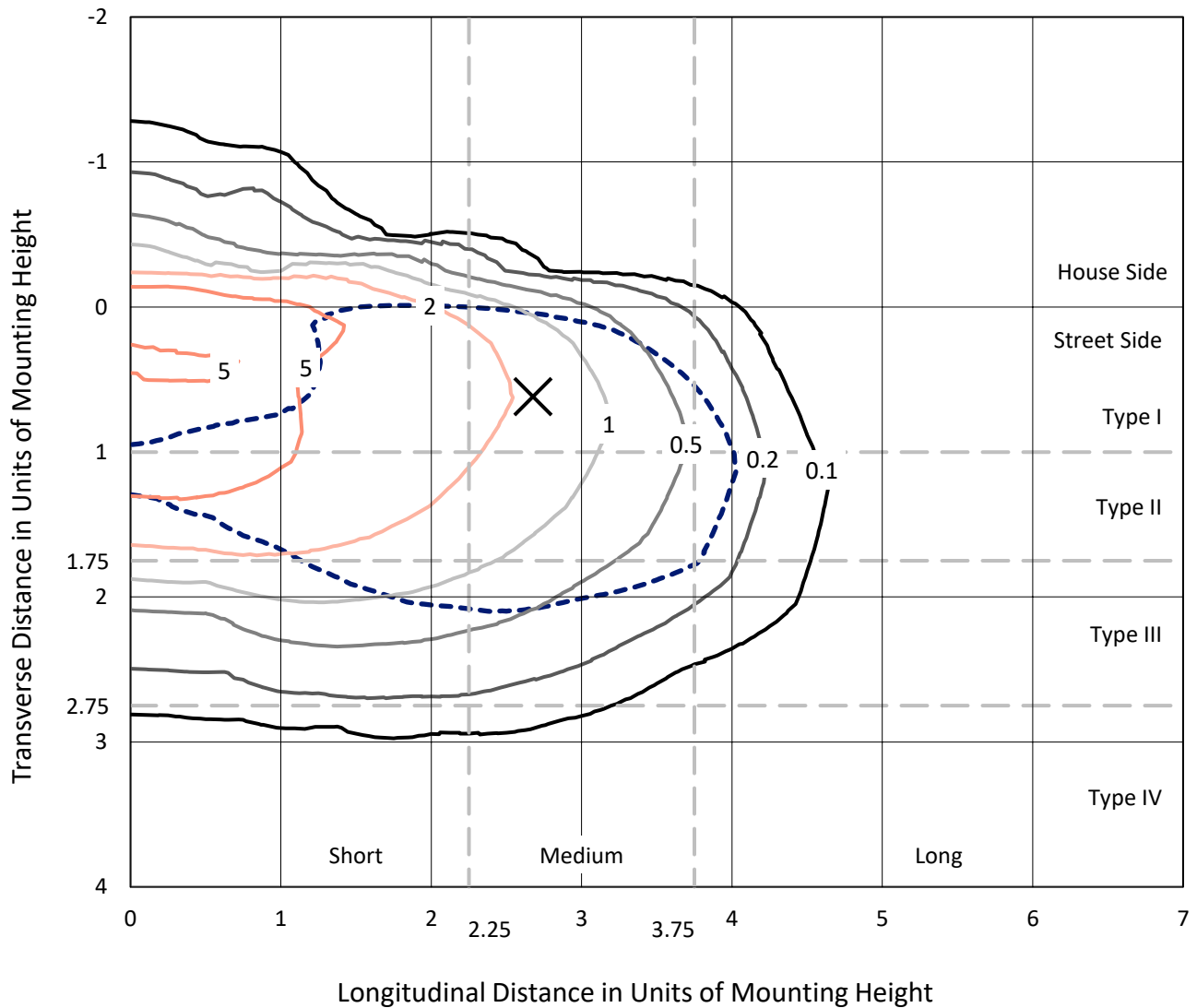
Lumens per Lamp: N/A  
Luminaire Lumens: 31011 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

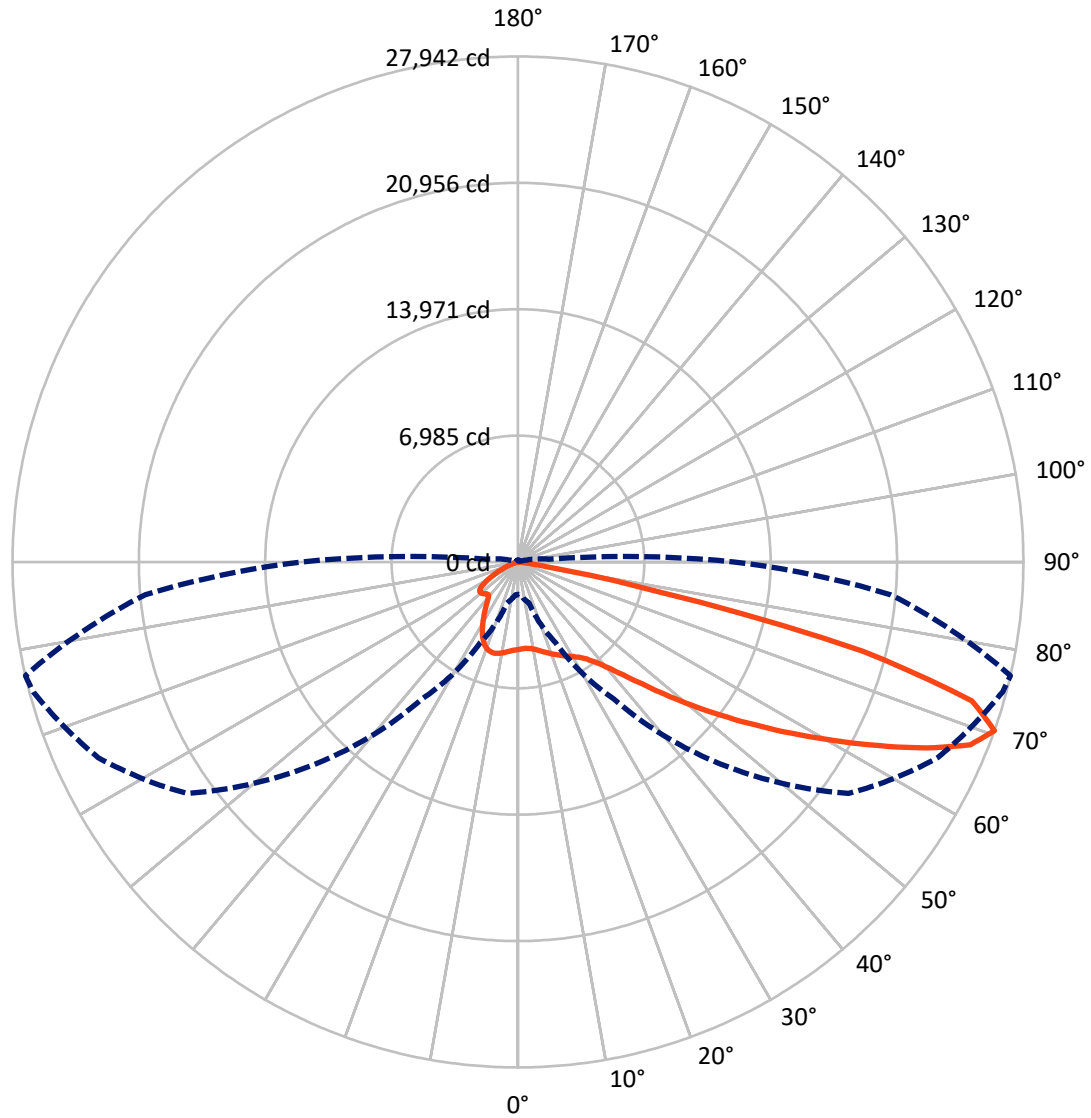
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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
<b>House Side</b>	Lumens	3269.0	0.0	3269.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	27742.0	0.0	27742.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	31011.0	0.0	31011.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.9	1.3
10°-20°	989.6	3.2
20°-30°	1530.7	4.9
30°-40°	2777.5	9.0
40°-50°	5242.9	16.9
50°-60°	7575.6	24.4
60°-70°	8064.0	26.0
70°-80°	4273.4	13.8
80°-90°	140.3	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°	31011.0	100.0
0°-180°	31011.0	100.0

**Coefficient of Utilization**



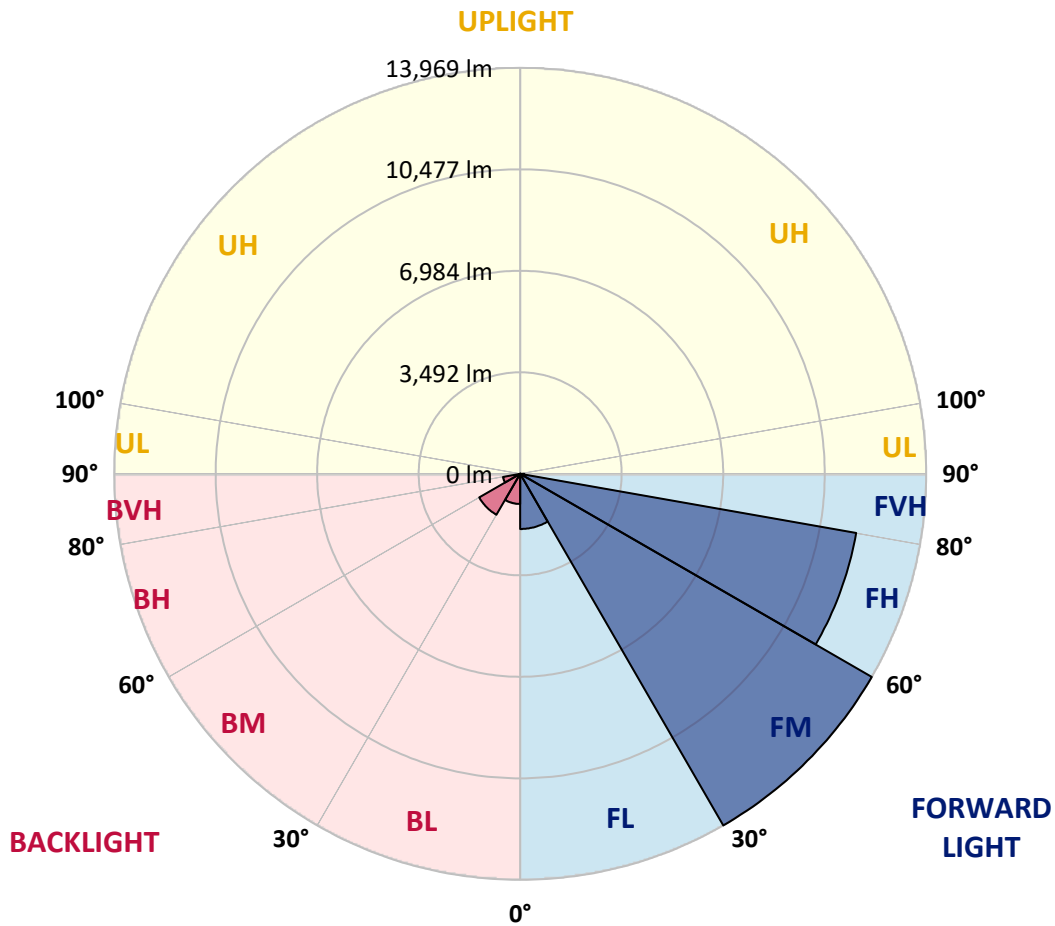
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.6	6.1			
FM (30°-60°)	13968.7	45.0			
FH (60°-80°)	11738.1	37.9			G4/12000
FVH (80°-90°)	136.5	0.4			G2/225
BL (0°-30°)	1038.6	3.3	B3/2500		
BM (30°-60°)	1627.3	5.2	B2/2500		
BH (60°-80°)	599.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2
2.5°	4541.4	4582.6	4576.7	4604.1	4613.9	4653.1	4692.2	4745.1	4803.9	4801.9
5°	4284.9	4326.0	4335.8	4373.0	4420.0	4480.7	4561.0	4666.8	4776.4	4794.1
7.5°	3981.4	4024.4	4049.9	4124.3	4210.5	4335.8	4467.0	4621.7	4803.9	4829.3
10°	3677.8	3717.0	3750.3	3856.0	3993.1	4179.1	4392.6	4615.9	4860.7	4897.9
12.5°	3489.8	3527.0	3564.2	3656.3	3826.6	4053.8	4343.6	4643.3	4954.7	5007.5
15°	3423.2	3456.5	3485.9	3568.1	3726.8	3985.3	4333.9	4700.1	5074.1	5144.6
17.5°	3433.0	3450.6	3470.2	3532.9	3687.6	3953.9	4351.5	4798.0	5215.1	5277.8
20°	3489.8	3499.6	3501.6	3544.6	3681.7	3950.0	4386.7	4892.0	5348.3	5432.5
22.5°	3562.3	3566.2	3562.3	3591.6	3718.9	3979.4	4433.7	5005.6	5497.1	5575.5
25°	3901.1	3826.6	3732.6	3675.8	3781.6	4036.2	4504.2	5158.3	5659.7	5736.0
27.5°	4952.7	4739.2	4402.4	4024.4	3910.9	4118.4	4602.2	5313.0	5824.2	5892.7
30°	6660.4	6380.3	5808.5	4956.6	4326.0	4290.8	4729.4	5467.7	5998.5	6072.9
32.5°	8372.0	8303.5	7643.5	6464.6	5260.2	4674.6	4940.9	5677.3	6229.6	6288.3
35°	10103.2	9964.1	9423.6	8258.4	6699.6	5456.0	5293.5	5951.5	6533.1	6599.7
37.5°	11429.0	11344.8	11009.9	10050.3	8407.3	6662.3	5896.6	6376.4	6973.7	7048.1
40°	12600.1	12560.9	12447.4	11814.8	10316.7	8240.8	6834.7	7034.4	7584.7	7672.9
42.5°	13520.5	13612.6	13677.2	13501.0	12284.8	10042.5	8095.9	7958.8	8436.6	8526.7
45°	14462.5	14493.8	14754.3	15008.9	14239.3	11926.4	9517.6	9041.8	9496.1	9607.7
47.5°	15067.6	15193.0	15651.2	16099.7	15882.3	13794.7	11045.2	10320.6	10724.0	10933.5
50°	15112.7	15349.6	15980.2	16761.6	17078.9	15572.9	12705.9	11777.6	12206.5	12437.6
52.5°	14362.6	14730.8	15708.0	16851.7	17725.1	17078.9	14423.3	13234.6	13784.9	14086.5
55°	11011.9	11493.6	14683.8	16362.1	17750.6	18220.6	16095.8	14752.3	15543.5	15884.3
57.5°	9594.0	9836.9	11544.5	15512.2	17278.6	18680.8	17607.6	16197.6	17456.8	17879.9
60°	7982.3	8301.5	9682.1	14121.8	16638.2	18725.9	18943.2	18062.0	19530.8	20006.6
62.5°	5424.7	5771.3	7144.1	11732.6	15762.9	18704.3	20038.0	19981.2	21835.7	22346.9
65°	3360.6	3577.9	4482.7	9580.3	14538.9	18727.8	21183.6	22311.6	24268.0	24787.0
67.5°	2655.5	2755.4	3227.4	7355.6	12429.7	18199.1	22327.3	24503.0	26557.4	26968.6
70°	1784.1	1844.8	2348.1	4931.2	9247.4	15758.9	22305.8	25603.6	27736.3	27941.9
72.5°	940.0	987.0	1372.8	2283.5	5585.3	11201.8	18802.2	24287.6	26563.2	26253.8
75°	470.0	548.3	924.3	1159.4	2385.3	6247.2	11675.8	19148.9	20907.5	19709.0
77.5°	356.4	430.8	763.8	763.8	830.3	2103.3	4944.9	10443.9	9633.2	8021.5
80°	227.2	293.8	667.8	577.7	346.6	534.6	1288.6	2925.8	2046.5	1556.9
82.5°	133.2	191.9	556.2	381.9	193.9	197.8	364.3	622.8	530.7	413.2
85°	52.9	125.3	381.9	150.8	76.4	49.0	109.7	133.2	109.7	82.3
87.5°	0.0	29.4	66.6	0.0	5.9	3.9	7.8	9.8	9.8	7.8
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°
4837.2	0°	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2	4837.2
4841.1	2.5°	4858.7	4862.6	4874.4	4876.3	4848.9	4813.7	4799.9	4794.1	4770.6	4768.6
4872.4	5°	4917.4	4935.1	4917.4	4866.5	4745.1	4574.7	4445.5	4339.7	4243.8	4214.4
4980.1	7.5°	5035.0	5052.6	4999.7	4799.9	4494.4	4155.6	3850.1	3634.7	3440.8	3368.4
5111.3	10°	5203.4	5226.9	5060.4	4657.0	4116.5	3572.1	3055.0	2690.8	2406.8	2291.3
5289.5	12.5°	5414.9	5424.7	5093.7	4439.6	3624.9	2847.5	2115.0	1725.3	1472.7	1378.7
5505.0	15°	5647.9	5634.2	5097.6	4143.9	2955.2	2013.2	1380.6	1133.9	1032.1	1000.7
5720.4	17.5°	5892.7	5835.9	5019.3	3717.0	2220.8	1376.7	1024.2	965.5	947.8	940.0
5933.8	20°	6133.6	6006.3	4876.3	3158.8	1594.1	1028.1	930.2	912.6	902.8	898.9
6149.3	22.5°	6352.9	6135.6	4631.5	2510.6	1157.4	908.7	879.3	863.6	846.0	838.2
6358.8	25°	6566.4	6210.0	4286.9	1905.5	926.3	849.9	826.4	797.1	773.6	763.8
6584.0	27.5°	6774.0	6257.0	3856.0	1410.0	826.4	795.1	752.0	710.9	693.3	689.3
6824.9	30°	6995.3	6272.6	3366.4	1051.6	765.7	726.6	663.9	616.9	607.1	609.1
7150.0	32.5°	7265.5	6296.1	2872.9	861.7	714.8	644.3	569.9	520.9	513.1	520.9
7623.9	35°	7588.7	6343.1	2397.0	793.1	669.8	560.1	479.8	438.7	430.8	436.7
8231.0	37.5°	8027.3	6419.5	1952.5	779.4	632.6	489.6	403.4	370.1	370.1	372.1
8975.2	40°	8610.9	6623.2	1554.9	769.6	613.0	436.7	340.8	327.0	332.9	336.8
9923.0	42.5°	9321.8	7056.0	1286.6	757.9	591.4	413.2	309.4	303.5	313.3	317.3
11058.9	45°	10118.9	7604.3	1192.6	738.3	571.8	428.9	295.7	287.9	299.6	301.6
12331.8	47.5°	10943.3	8140.9	1180.9	716.8	552.3	452.4	291.8	274.2	287.9	289.8
13690.9	50°	11777.6	8491.5	1192.6	683.5	520.9	452.4	293.8	260.5	272.2	278.1
15100.9	52.5°	12617.7	8652.0	1184.8	611.0	466.1	425.0	293.8	248.7	260.5	264.4
16624.5	55°	13432.4	8620.7	1065.3	503.3	395.6	376.0	285.9	238.9	246.8	248.7
18063.9	57.5°	14076.7	8184.0	844.1	391.7	321.2	313.3	260.5	227.2	233.0	231.1
19383.9	60°	14413.5	7224.4	603.2	301.6	252.6	246.8	229.1	211.5	215.4	205.6
20502.1	62.5°	14417.5	5955.4	403.4	238.9	201.7	195.8	195.8	190.0	186.0	166.5
21367.7	65°	14110.0	4547.3	268.3	190.0	162.5	152.8	164.5	162.5	148.8	121.4
21632.1	67.5°	13412.8	2980.6	203.7	148.8	125.3	119.5	131.2	137.1	127.3	101.8
20668.6	70°	11979.3	1735.1	168.4	115.5	94.0	88.1	105.8	117.5	105.8	82.3
17666.4	72.5°	9950.4	936.1	137.1	86.2	64.6	58.8	84.2	96.0	84.2	60.7
11335.0	75°	6456.7	501.3	105.8	56.8	33.3	37.2	62.7	70.5	58.8	39.2
3327.3	77.5°	2167.9	221.3	66.6	27.4	15.7	15.7	37.2	43.1	27.4	13.7
605.1	80°	483.7	92.0	27.4	11.8	5.9	5.9	7.8	7.8	3.9	0.0
186.0	82.5°	158.6	37.2	11.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
47.0	85°	60.7	13.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.7	87.5°	23.5	2.0	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

180°
4837.2
4772.5
4196.8
3339.0
2242.3
1349.3
1000.7
938.1
895.0
836.2
759.8
685.4
609.1
519.0
434.8
370.1
336.8
317.3
303.5
291.8
280.0
264.4
248.7
231.1
203.7
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