

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: P951416

Luminaire Tested: **GALN-SB5C-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27853 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

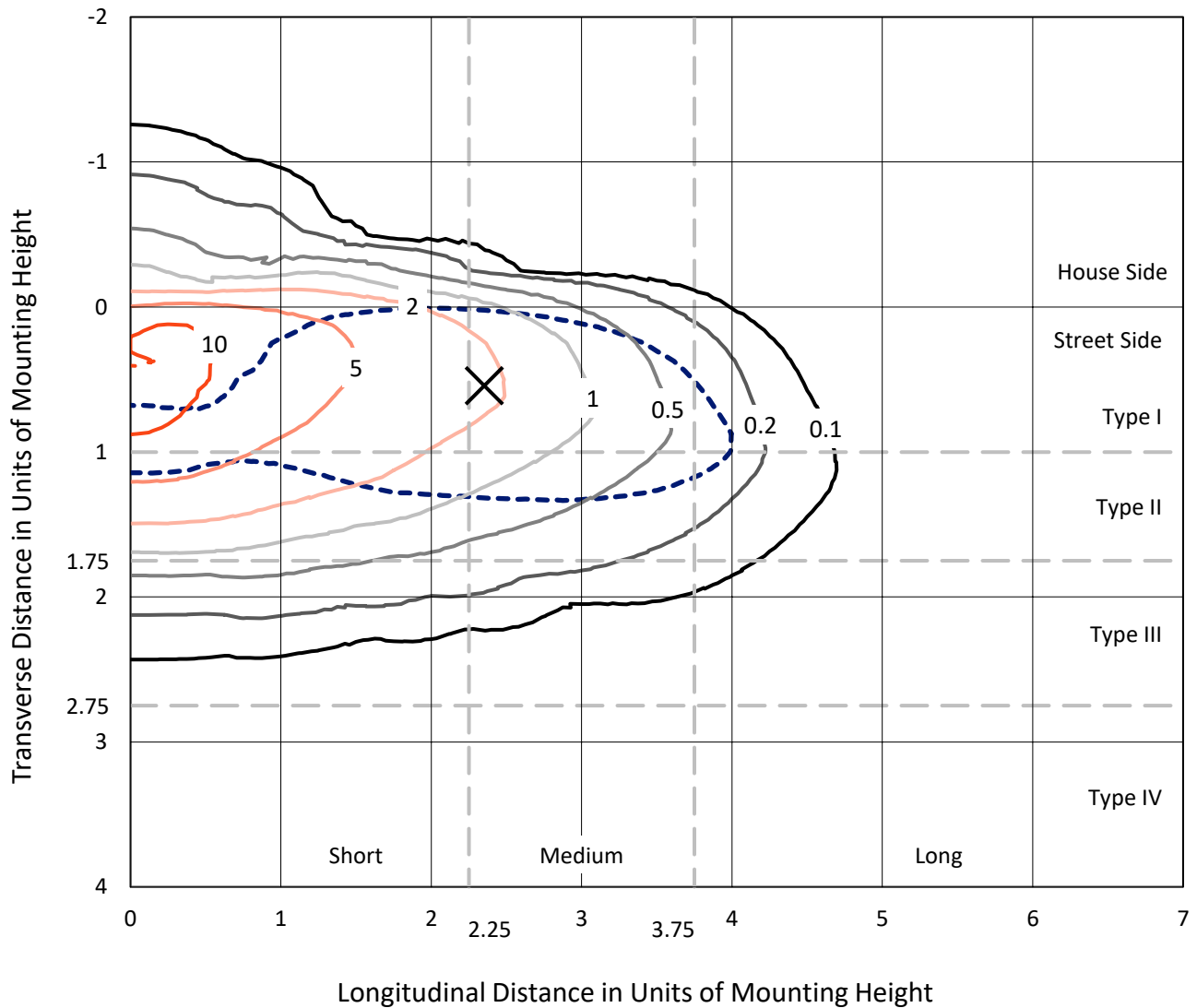
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

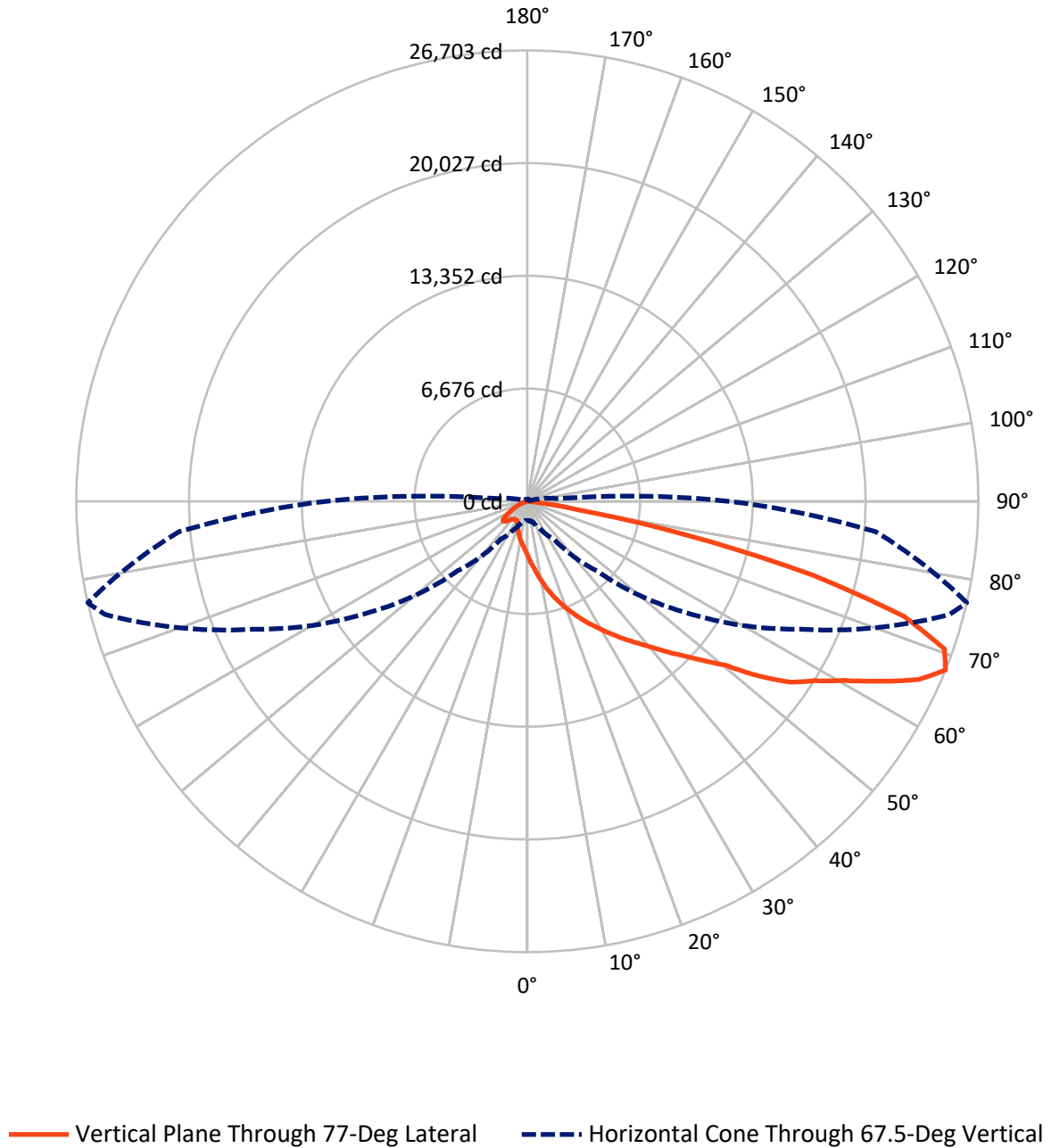
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2049.2	0.0	2049.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	25803.8	0.0	25803.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	27853.0	0.0	27853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	1.2
10°-20°	1148.0	4.1
20°-30°	2215.3	8.0
30°-40°	3845.9	13.8
40°-50°	5584.1	20.0
50°-60°	6412.6	23.0
60°-70°	5567.3	20.0
70°-80°	2622.3	9.4
80°-90°	129.7	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°	27853.0	100.0
0°-180°	27853.0	100.0

Coefficient of Utilization



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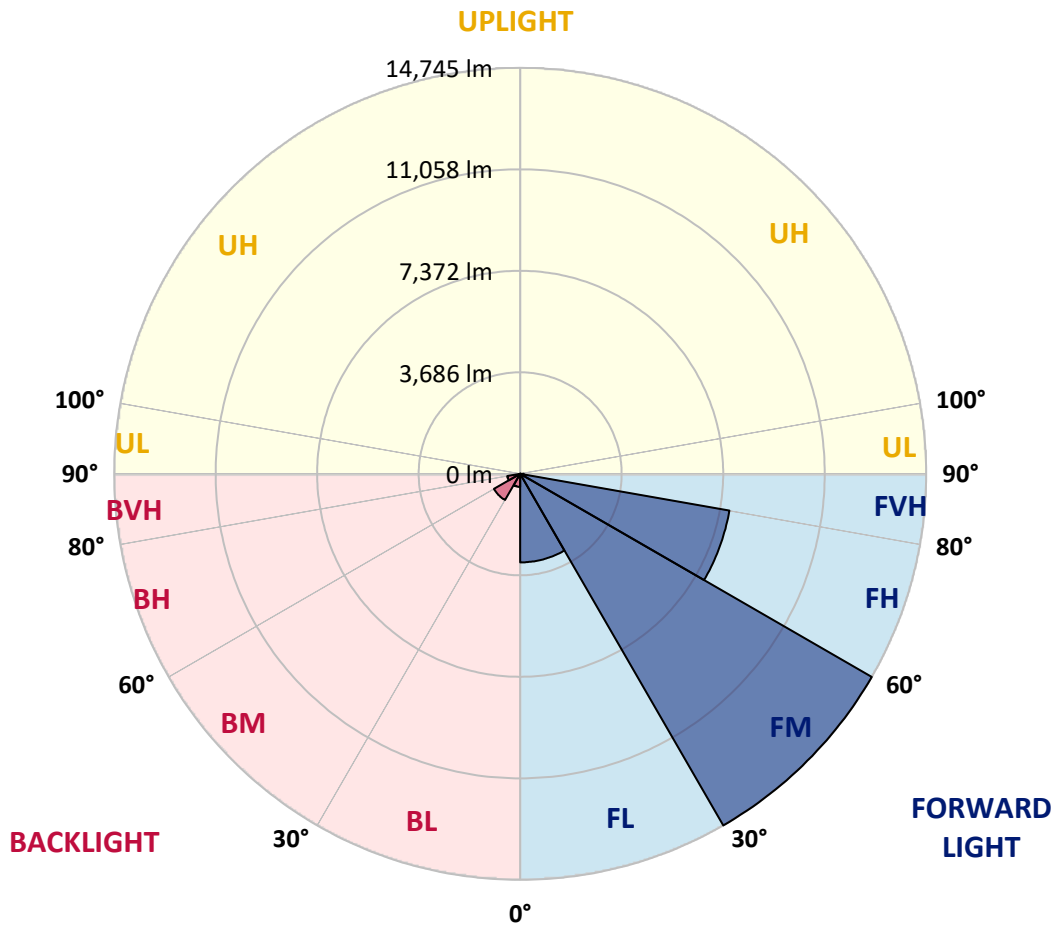
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3216.7	11.5			
FM (30°-60°)	14744.6	52.9			
FH (60°-80°)	7715.2	27.7			G4/12000
FVH (80°-90°)	127.3	0.5			G2/225
BL (0°-30°)	474.4	1.7	B1/500		
BM (30°-60°)	1098.0	3.9	B2/2500		
BH (60°-80°)	474.4	1.7	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
2.5°	4446.8	4474.5	4434.7	4358.6	4244.4	4170.1	3988.4	3817.2	3627.0	3566.4
5°	5420.6	5444.8	5399.8	5316.8	5164.6	5019.3	4780.6	4422.6	4050.7	3931.4
7.5°	6141.8	6155.6	6138.3	6062.2	5916.9	5752.6	5486.3	5062.5	4510.8	4379.3
10°	6660.7	6705.6	6700.5	6671.1	6574.2	6441.0	6157.4	5674.8	5026.2	4856.7
12.5°	7004.9	7055.0	7084.4	7150.2	7145.0	7060.2	6811.2	6300.9	5539.9	5341.0
15°	7105.2	7158.8	7271.2	7423.4	7558.3	7601.6	7426.9	6914.9	6105.5	5851.2
17.5°	7048.1	7131.1	7266.0	7506.4	7802.2	7997.7	7978.6	7508.2	6619.2	6328.6
20°	7174.4	7253.9	7359.4	7561.8	7906.0	8260.6	8402.4	8075.5	7129.4	6825.0
22.5°	7873.1	7859.3	7869.7	7902.5	8108.3	8459.5	8751.8	8590.9	7634.4	7323.1
25°	8980.1	8917.8	8812.3	8634.1	8582.3	8751.8	9056.2	9047.5	8167.2	7833.3
27.5°	10249.6	10239.2	9991.9	9562.9	9320.8	9255.1	9400.4	9492.0	8694.7	8338.4
30°	11465.5	11493.2	11159.4	10682.0	10237.5	9979.8	9848.3	9914.0	9230.9	8883.2
32.5°	12524.0	12553.4	12190.2	11631.5	11081.5	10770.2	10493.5	10330.9	9815.5	9436.7
35°	13418.2	13447.6	13030.8	12413.3	11827.0	11545.1	11232.0	10787.5	10403.5	10050.7
37.5°	14217.3	14208.6	13650.0	13027.3	12451.4	12228.2	12063.9	11349.6	11008.9	10668.1
40°	14689.5	14725.8	14248.4	13561.8	13003.1	12840.5	12830.1	12046.6	11707.6	11377.3
42.5°	14827.8	14891.8	14545.9	13982.1	13475.3	13298.9	13570.4	12800.7	12520.5	12198.8
45°	14578.8	14641.0	14483.6	14092.8	13797.0	13682.8	14206.9	13582.5	13388.8	13070.6
47.5°	13852.3	13930.2	13968.2	13885.2	13881.7	13997.6	14777.7	14405.8	14419.6	14094.5
50°	12446.2	12577.6	12927.0	13221.0	13675.9	14246.7	15332.9	15298.3	15581.9	15301.7
52.5°	9889.8	10076.6	11280.4	12084.7	13106.9	14200.0	15943.4	16730.4	17621.1	17211.2
55°	7947.5	7947.5	8926.4	10431.2	11996.5	13892.1	16209.8	17660.9	19010.0	18913.1
57.5°	6479.1	6556.9	7181.3	8511.3	10389.7	13158.8	16374.1	18245.5	20129.0	20058.1
60°	3998.8	4166.6	5346.2	6658.9	8561.5	11852.9	16270.3	18837.0	21486.8	21543.9
62.5°	2251.9	2314.2	2840.0	4791.0	6657.2	10097.4	15476.4	19167.4	23223.3	23465.4
65°	1554.9	1586.0	1788.4	2981.8	4614.6	8039.2	13925.0	18961.6	24963.3	25452.7
67.5°	1129.4	1145.0	1271.3	1821.3	2738.0	5828.7	11493.2	17923.8	25885.1	26703.2
70°	868.3	878.6	970.3	1196.9	1617.2	3597.6	8347.0	15860.4	25217.5	26194.7
72.5°	705.7	716.1	787.0	885.6	1072.3	2127.4	5059.1	12880.3	22270.3	23325.3
75°	595.0	608.8	672.8	736.8	840.6	1366.4	2373.0	8969.7	16747.7	17439.5
77.5°	330.4	304.4	546.6	610.5	709.1	864.8	1110.4	5278.7	9379.6	9571.6
80°	205.8	212.7	434.1	491.2	544.8	435.9	508.5	2032.3	3251.6	3089.1
82.5°	12.1	27.7	333.8	354.6	373.6	186.8	192.0	690.1	783.5	719.5
85°	0.0	0.0	152.2	122.8	129.7	53.6	55.3	160.9	105.5	114.2
87.5°	0.0	0.0	0.0	3.5	0.0	5.2	10.4	13.8	5.2	6.9
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°
3211.9	0°	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9	3211.9
3376.2	2.5°	3255.1	3134.0	2888.4	2648.0	2452.6	2271.0	2141.2	2018.4	1956.2	1952.7
3594.1	5°	3353.7	3099.4	2608.2	2174.1	1824.7	1544.5	1362.9	1233.2	1167.5	1145.0
3862.2	7.5°	3492.1	3109.8	2362.6	1759.0	1347.4	1106.9	1003.2	961.7	947.8	932.3
4164.9	10°	3666.7	3134.0	2143.0	1416.5	1062.0	940.9	899.4	882.1	871.7	861.3
4505.6	12.5°	3862.2	3156.5	1925.0	1176.1	934.0	871.7	842.3	821.6	807.7	795.6
4855.0	15°	4052.4	3170.4	1698.5	1008.4	868.3	818.1	787.0	764.5	745.5	731.6
5197.4	17.5°	4241.0	3189.4	1485.7	908.0	814.6	764.5	733.3	705.7	690.1	674.5
5557.2	20°	4450.3	3185.9	1285.1	837.1	761.0	710.9	678.0	652.1	636.5	619.2
5937.7	22.5°	4644.0	3168.6	1108.7	776.6	705.7	657.2	620.9	595.0	579.4	565.6
6326.9	25°	4867.1	3154.8	961.7	721.2	653.8	605.4	565.6	541.4	524.1	512.0
6717.8	27.5°	5081.6	3134.0	854.4	671.1	603.6	556.9	518.9	491.2	475.6	467.0
7120.7	30°	5292.6	3128.8	814.6	622.7	558.7	512.0	473.9	448.0	435.9	432.4
7563.5	32.5°	5546.8	3142.7	831.9	605.4	517.1	470.5	434.1	415.1	403.0	403.0
8056.5	35°	5818.4	3139.2	857.9	620.9	489.5	428.9	401.3	389.2	377.1	377.1
8603.0	37.5°	6159.1	3144.4	878.6	646.9	479.1	394.3	378.8	363.2	356.3	356.3
9201.5	40°	6667.6	3315.6	868.3	669.4	475.6	370.1	339.0	333.8	328.6	328.6
9877.7	42.5°	7290.2	3687.5	882.1	671.1	473.9	352.8	311.3	321.7	309.6	307.9
10640.5	45°	7971.7	4094.0	970.3	634.8	472.2	344.2	297.5	309.6	290.6	290.6
11524.3	47.5°	8648.0	4497.0	1060.2	582.9	467.0	342.5	285.4	278.5	273.3	275.0
12676.2	50°	9580.2	4825.6	1094.8	512.0	454.9	339.0	262.9	264.6	261.2	264.6
14300.3	52.5°	10595.5	4894.8	1053.3	432.4	420.3	328.6	247.3	254.3	252.5	256.0
15443.6	55°	11228.5	4820.4	870.0	359.8	366.7	287.1	231.8	245.6	245.6	245.6
16560.9	57.5°	11882.3	4503.9	617.5	292.3	304.4	235.2	217.9	237.0	235.2	233.5
17906.5	60°	12352.8	3991.9	406.5	240.4	242.1	193.7	202.4	223.1	221.4	212.7
19293.6	62.5°	12703.9	3426.3	261.2	204.1	185.1	174.7	185.1	202.4	195.4	176.4
20469.8	65°	12664.1	2642.8	200.6	174.7	152.2	152.2	160.9	176.4	155.7	124.5
20694.6	67.5°	11925.6	1788.4	166.0	147.0	128.0	126.3	133.2	147.0	133.2	105.5
19542.7	70°	10605.9	1169.2	133.2	114.2	102.0	93.4	107.2	126.3	112.4	84.8
16637.0	72.5°	8608.2	712.6	100.3	83.0	74.4	60.5	84.8	103.8	89.9	62.3
11569.3	75°	5569.3	363.2	69.2	53.6	39.8	36.3	62.3	77.8	62.3	38.1
5133.4	77.5°	2130.9	152.2	38.1	24.2	20.8	17.3	34.6	46.7	25.9	8.6
994.5	80°	409.9	64.0	19.0	12.1	10.4	6.9	5.2	3.5	0.0	0.0
176.4	82.5°	70.9	20.8	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
34.6	85°	24.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.1	87.5°	8.6	0.0	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

<u>180°</u>
3211.9
1949.3
1141.5
928.8
857.9
792.2
729.9
672.8
617.5
563.8
510.2
467.0
430.7
403.0
377.1
356.3
328.6
306.1
290.6
275.0
264.6
256.0
245.6
233.5
212.7
173.0
121.1
102.0
81.3
58.8
32.9
6.9
0.0
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