

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: P950370

Luminaire Tested: **GALN-SB4D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950370
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-SB4D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 30509 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

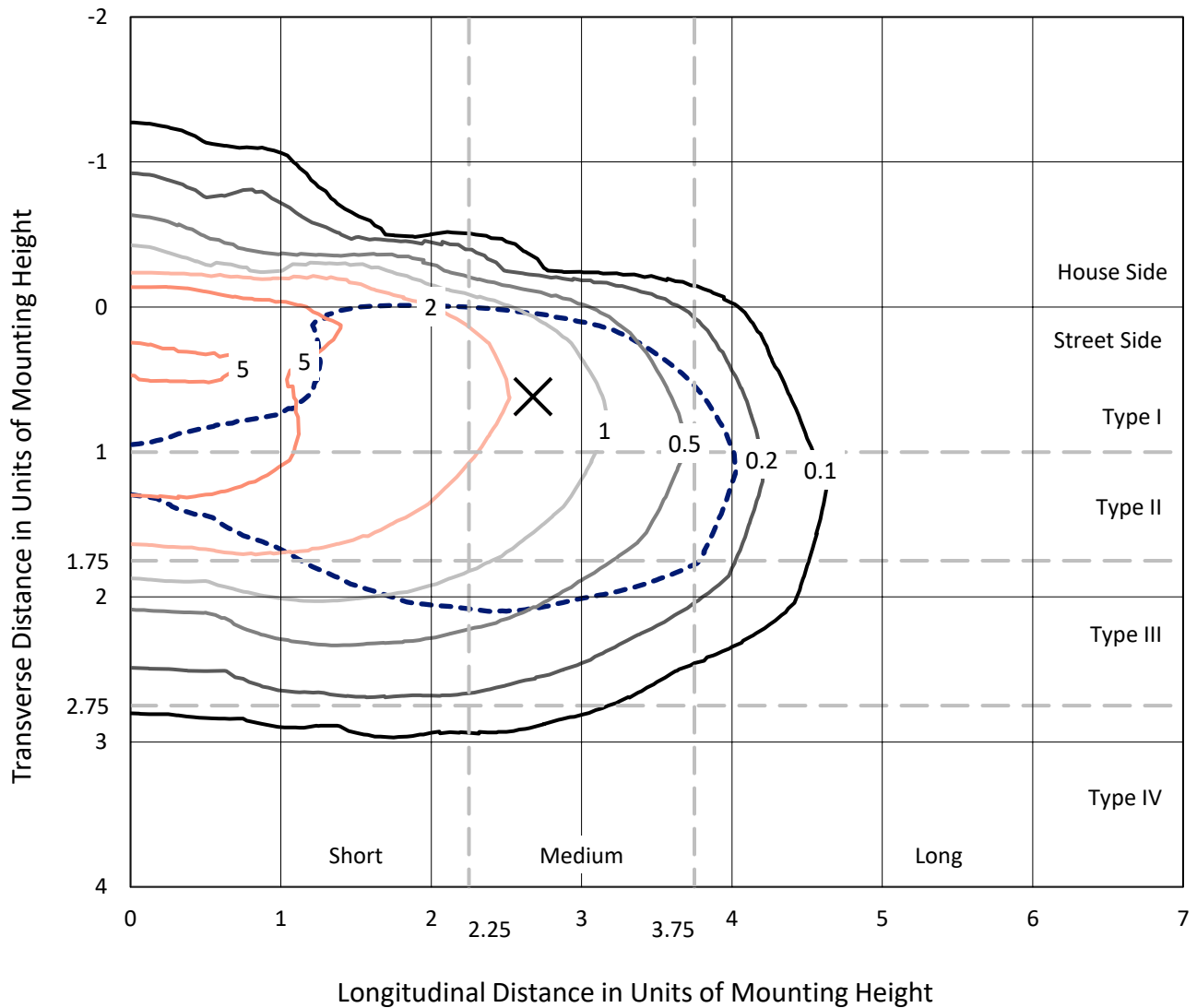
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

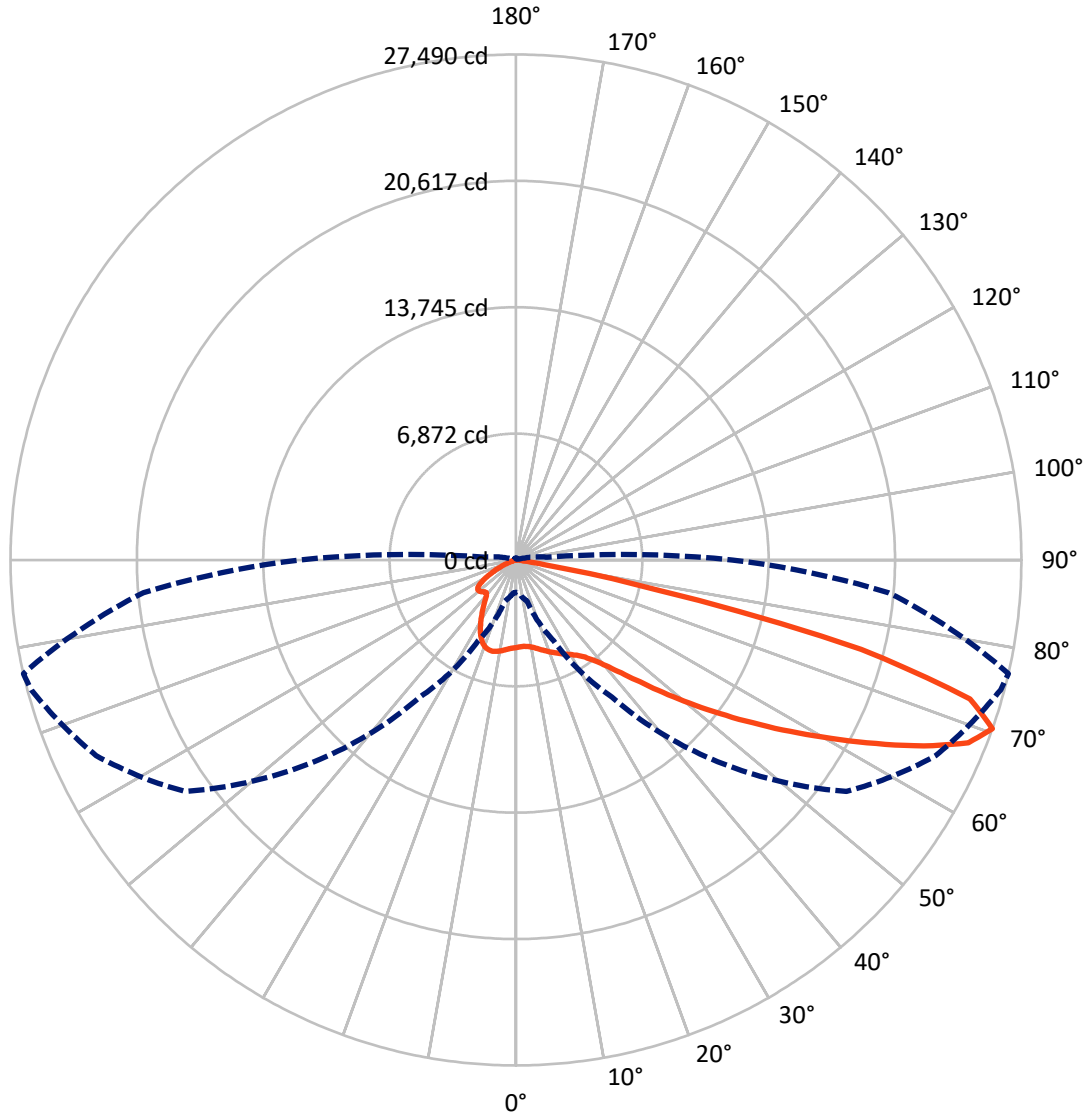
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	3216.1	0.0	3216.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27292.9	0.0	27292.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	30509.0	0.0	30509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.1	1.3
10°-20°	973.6	3.2
20°-30°	1505.9	4.9
30°-40°	2732.6	9.0
40°-50°	5158.1	16.9
50°-60°	7453.0	24.4
60°-70°	7933.5	26.0
70°-80°	4204.2	13.8
80°-90°	138.0	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°	30509.0	100.0
0°-180°	30509.0	100.0



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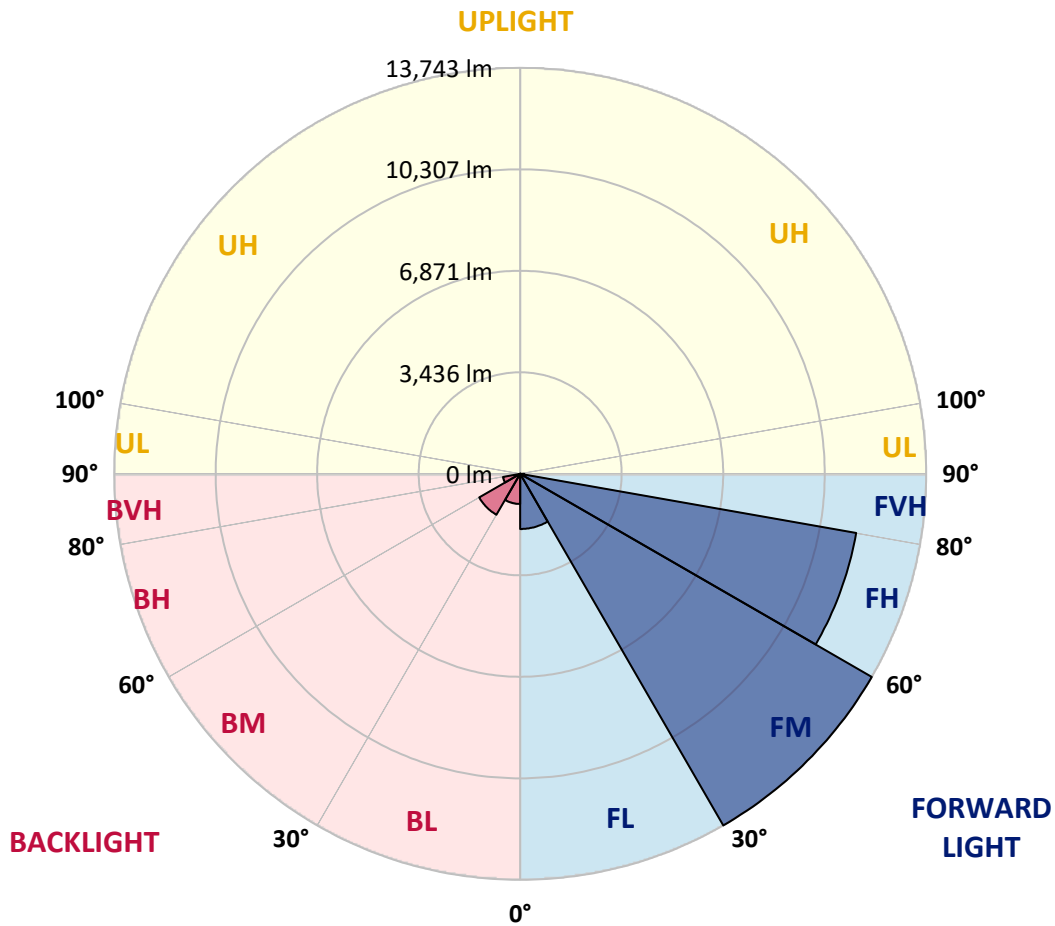
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.9	6.1			
FM (30°-60°)	13742.6	45.0			
FH (60°-80°)	11548.1	37.9			G4/12000
FVH (80°-90°)	134.3	0.4			G2/225
BL (0°-30°)	1021.8	3.3	B3/2500		
BM (30°-60°)	1601.0	5.2	B2/2500		
BH (60°-80°)	589.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9
2.5°	4467.9	4508.4	4502.6	4529.6	4539.2	4577.7	4616.3	4668.3	4726.1	4724.2
5°	4215.5	4256.0	4265.6	4302.2	4348.5	4408.2	4487.2	4591.2	4699.1	4716.5
7.5°	3916.9	3959.3	3984.3	4057.5	4142.3	4265.6	4394.7	4546.9	4726.1	4751.1
10°	3618.3	3656.8	3689.6	3793.6	3928.5	4111.5	4321.5	4541.1	4782.0	4818.6
12.5°	3433.3	3469.9	3506.5	3597.1	3764.7	3988.2	4273.3	4568.1	4874.5	4926.5
15°	3367.8	3400.6	3429.5	3510.4	3666.4	3920.8	4263.7	4624.0	4992.0	5061.3
17.5°	3377.4	3394.8	3414.0	3475.7	3627.9	3889.9	4281.0	4720.3	5130.7	5192.4
20°	3433.3	3442.9	3444.9	3487.3	3622.1	3886.1	4315.7	4812.8	5261.7	5344.6
22.5°	3504.6	3508.4	3504.6	3533.5	3658.7	3915.0	4362.0	4924.5	5408.1	5485.2
25°	3837.9	3764.7	3672.2	3616.3	3720.4	3970.8	4431.3	5074.8	5568.1	5643.2
27.5°	4872.5	4662.5	4331.1	3959.3	3847.5	4051.8	4527.7	5227.0	5729.9	5797.3
30°	6552.6	6277.1	5714.5	4876.4	4256.0	4221.3	4652.9	5379.2	5901.4	5974.6
32.5°	8236.5	8169.0	7519.8	6359.9	5175.0	4598.9	4861.0	5585.4	6128.7	6186.5
35°	9939.6	9802.9	9271.1	8124.7	6591.1	5367.7	5207.8	5855.1	6427.3	6492.8
37.5°	11244.0	11161.1	10831.7	9887.6	8271.2	6554.5	5801.2	6273.2	6860.8	6934.1
40°	12396.1	12357.6	12245.9	11623.5	10149.7	8107.4	6724.0	6920.6	7462.0	7548.7
42.5°	13301.7	13392.2	13455.8	13282.4	12085.9	9879.9	7964.8	7830.0	8300.1	8388.7
45°	14228.4	14259.2	14515.5	14765.9	14008.8	11733.4	9363.6	8895.4	9342.4	9452.2
47.5°	14823.7	14947.0	15397.9	15839.1	15625.2	13571.4	10866.4	10153.5	10550.4	10756.5
50°	14868.0	15101.2	15721.6	16490.3	16802.4	15320.8	12500.2	11586.9	12008.9	12236.2
52.5°	14130.1	14492.3	15453.7	16578.9	17438.2	16802.4	14189.9	13020.4	13561.8	13858.5
55°	10833.6	11307.6	14446.1	16097.3	17463.3	17925.7	15835.2	14513.5	15291.9	15627.1
57.5°	9438.7	9677.6	11357.7	15261.1	16998.9	18378.4	17322.6	15935.4	17174.3	17590.4
60°	7853.1	8167.1	9525.4	13893.2	16368.9	18422.7	18636.6	17769.6	19214.6	19682.8
62.5°	5336.9	5677.9	7028.5	11542.6	15507.7	18401.5	19713.6	19657.7	21482.3	21985.1
65°	3306.2	3520.0	4410.1	9425.2	14303.5	18424.7	20840.7	21950.5	23875.2	24385.7
67.5°	2612.6	2710.8	3175.1	7236.5	12228.5	17904.5	21965.9	24106.4	26127.5	26532.1
70°	1755.2	1814.9	2310.1	4851.3	9097.7	15503.8	21944.7	25189.2	27287.3	27489.6
72.5°	924.8	971.0	1350.6	2246.5	5494.8	11020.5	18497.9	23894.5	26133.2	25828.8
75°	462.4	539.5	909.4	1140.6	2346.7	6146.0	11486.8	18838.9	20569.0	19389.9
77.5°	350.7	423.9	751.4	751.4	816.9	2069.2	4864.8	10274.9	9477.2	7891.6
80°	223.5	289.0	657.0	568.4	341.0	526.0	1267.7	2878.4	2013.4	1531.7
82.5°	131.0	188.8	547.2	375.7	190.7	194.6	358.4	612.7	522.1	406.5
85°	52.0	123.3	375.7	148.4	75.1	48.2	107.9	131.0	107.9	80.9
87.5°	0.0	28.9	65.5	0.0	5.8	3.9	7.7	9.6	9.6	7.7
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°
4758.9	0°	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9	4758.9
4762.7	2.5°	4780.0	4783.9	4795.5	4797.4	4770.4	4735.7	4722.2	4716.5	4693.3	4691.4
4793.5	5°	4837.8	4855.2	4837.8	4787.8	4668.3	4500.7	4373.5	4269.5	4175.1	4146.2
4899.5	7.5°	4953.4	4970.8	4918.8	4722.2	4421.7	4088.4	3787.8	3575.9	3385.1	3313.9
5028.6	10°	5119.1	5142.3	4978.5	4581.6	4049.8	3514.2	3005.6	2647.2	2367.9	2254.2
5203.9	12.5°	5327.2	5336.9	5011.2	4367.7	3566.2	2801.4	2080.8	1697.4	1448.8	1356.4
5415.8	15°	5556.5	5543.0	5015.1	4076.8	2907.3	1980.6	1358.3	1115.5	1015.4	984.5
5627.8	17.5°	5797.3	5741.5	4938.0	3656.8	2184.8	1354.4	1007.6	949.8	932.5	924.8
5837.8	20°	6034.3	5909.1	4797.4	3107.7	1568.3	1011.5	915.2	897.8	888.2	884.3
6049.7	22.5°	6250.1	6036.2	4556.6	2470.0	1138.7	894.0	865.1	849.7	832.3	824.6
6255.9	25°	6460.1	6109.4	4217.5	1874.6	911.3	836.2	813.1	784.2	761.0	751.4
6477.4	27.5°	6664.3	6155.7	3793.6	1387.2	813.1	782.2	739.8	699.4	682.0	678.2
6714.4	30°	6882.0	6171.1	3311.9	1034.6	753.3	714.8	653.1	606.9	597.3	599.2
7034.2	32.5°	7147.9	6194.2	2826.4	847.7	703.2	633.9	560.7	512.5	504.8	512.5
7500.5	35°	7465.8	6240.5	2358.2	780.3	658.9	551.0	472.0	431.6	423.9	429.6
8097.8	37.5°	7897.4	6315.6	1920.9	766.8	622.3	481.7	396.9	364.1	364.1	366.1
8829.9	40°	8471.5	6516.0	1529.8	757.2	603.0	429.6	335.2	321.8	327.5	331.4
9762.4	42.5°	9170.9	6941.8	1265.8	745.6	581.9	406.5	304.4	298.6	308.3	312.1
10879.9	45°	9955.1	7481.2	1173.3	726.4	562.6	421.9	290.9	283.2	294.8	296.7
12132.2	47.5°	10766.2	8009.1	1161.8	705.2	543.3	445.1	287.1	269.7	283.2	285.1
13469.3	50°	11586.9	8354.0	1173.3	672.4	512.5	445.1	289.0	256.2	267.8	273.6
14856.5	52.5°	12413.5	8512.0	1165.6	601.1	458.5	418.1	289.0	244.7	256.2	260.1
16355.4	55°	13215.0	8481.2	1048.1	495.2	389.2	369.9	281.3	235.1	242.8	244.7
17771.5	57.5°	13848.8	8051.5	830.4	385.3	316.0	308.3	256.2	223.5	229.3	227.3
19070.1	60°	14180.2	7107.5	593.4	296.7	248.5	242.8	225.4	208.1	211.9	202.3
20170.2	62.5°	14184.1	5859.0	396.9	235.1	198.4	192.7	192.7	186.9	183.0	163.8
21021.8	65°	13881.6	4473.7	264.0	186.9	159.9	150.3	161.8	159.9	146.4	119.5
21281.9	67.5°	13195.7	2932.4	200.4	146.4	123.3	117.5	129.1	134.9	125.2	100.2
20334.0	70°	11785.4	1707.0	165.7	113.7	92.5	86.7	104.0	115.6	104.0	80.9
17380.4	72.5°	9789.4	920.9	134.9	84.8	63.6	57.8	82.8	94.4	82.8	59.7
11151.5	75°	6352.2	493.2	104.0	55.9	32.8	36.6	61.7	69.4	57.8	38.5
3273.4	77.5°	2132.8	217.7	65.5	27.0	15.4	15.4	36.6	42.4	27.0	13.5
595.3	80°	475.9	90.6	27.0	11.6	5.8	5.8	7.7	7.7	3.9	0.0
183.0	82.5°	156.1	36.6	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
46.2	85°	59.7	13.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.4	87.5°	23.1	1.9	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>
4758.9
4695.3
4128.8
3285.0
2206.0
1327.5
984.5
922.9
880.5
822.7
747.5
674.3
599.2
510.6
427.7
364.1
331.4
312.1
298.6
287.1
275.5
260.1
244.7
227.3
200.4
158.0
115.6
98.3
77.1
57.8
34.7
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