

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: P953938

Luminaire Tested: **GALN-SB7B-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953938
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-SB7B-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA 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: 27500 lumens
Efficiency: N/A
Efficacy: 107.1 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

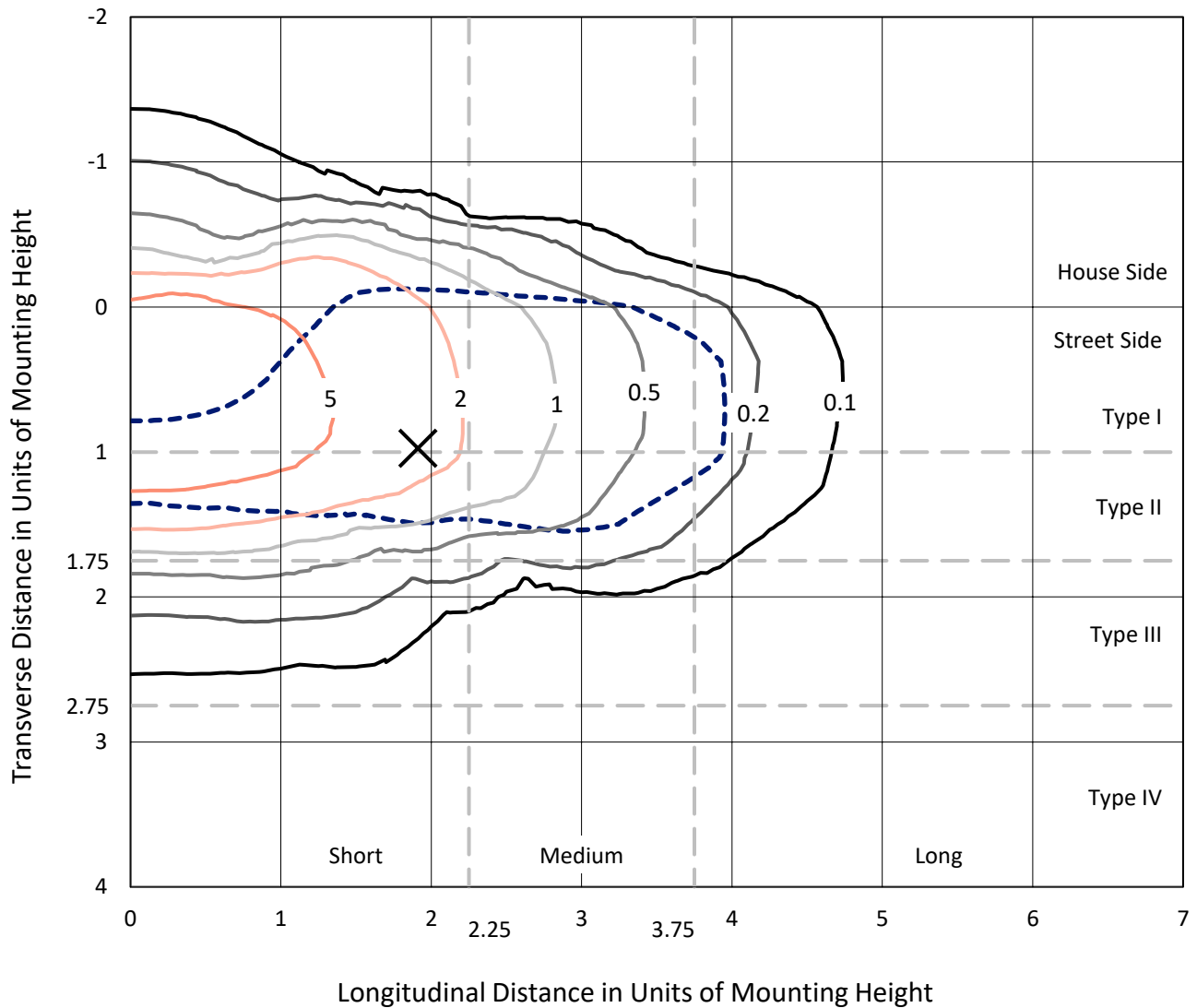
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

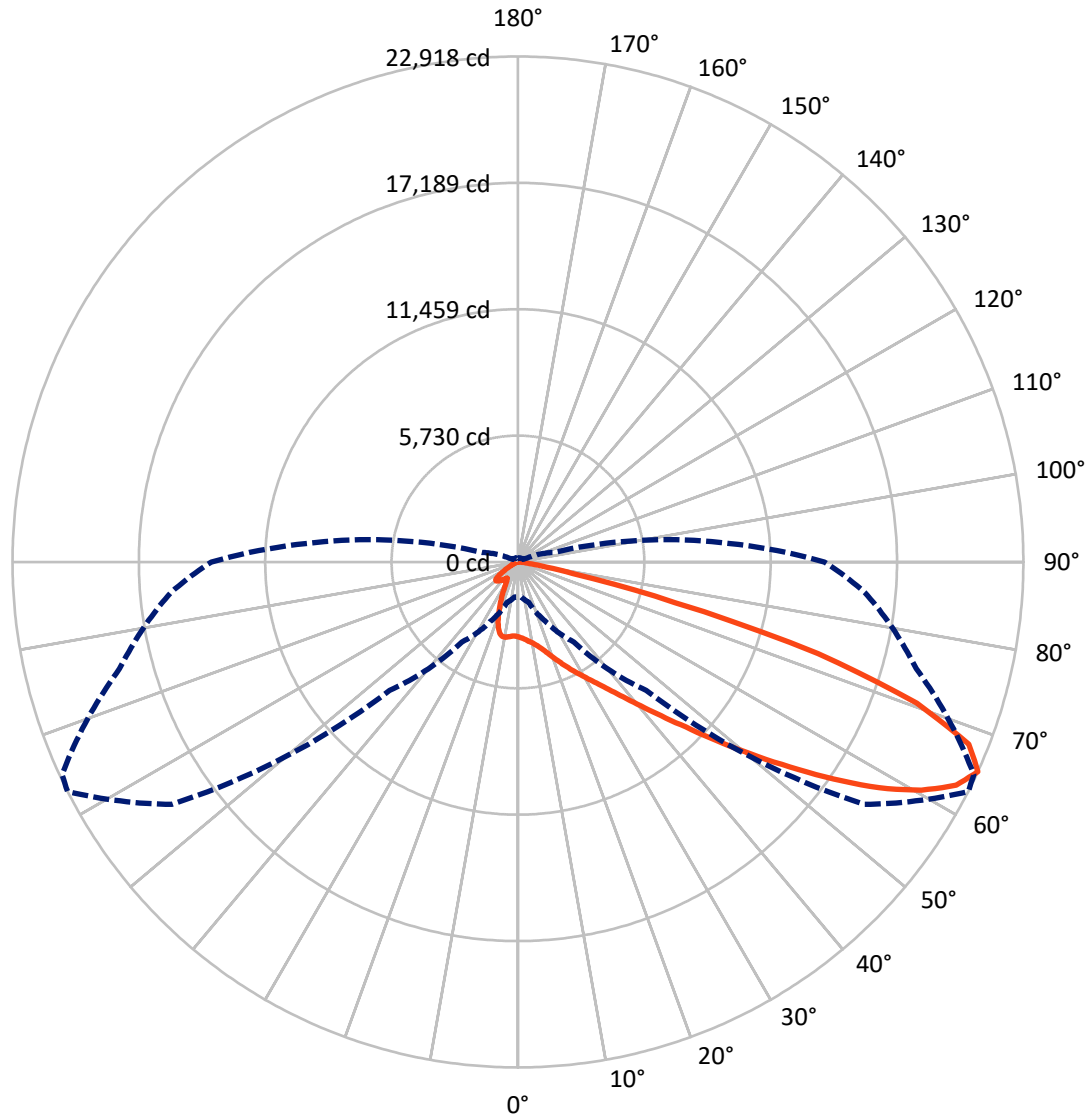
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	4042.3	0.0	4042.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	23457.7	0.0	23457.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	27500.0	0.0	27500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.8	1.2
10°-20°	887.3	3.2
20°-30°	1545.0	5.6
30°-40°	2784.6	10.1
40°-50°	5522.8	20.1
50°-60°	7523.0	27.4
60°-70°	6004.8	21.8
70°-80°	2717.3	9.9
80°-90°	195.3	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°	27500.0	100.0
0°-180°	27500.0	100.0

Coefficient of Utilization



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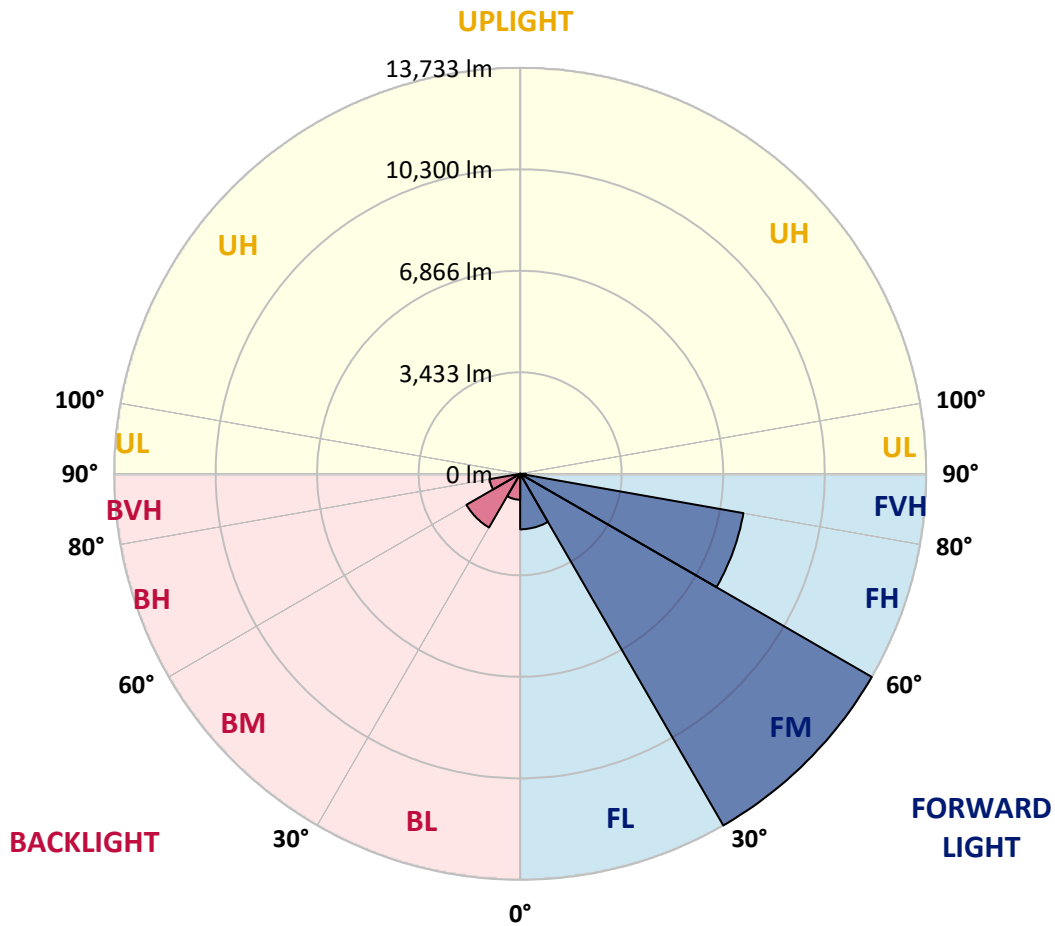
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.2	6.8			
FM (30°-60°)	13732.8	49.9			
FH (60°-80°)	7666.9	27.9			G4/12000
FVH (80°-90°)	180.8	0.7			G2/225
BL (0°-30°)	874.8	3.2	B2/1000		
BM (30°-60°)	2097.7	7.6	B2/2500		
BH (60°-80°)	1055.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.5	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°	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0
2.5°	3473.5	3464.0	3477.3	3471.6	3467.8	3460.2	3456.5	3452.7	3445.1	3439.4
5°	3482.9	3477.3	3490.5	3501.9	3513.2	3524.6	3530.2	3537.8	3530.2	3515.1
7.5°	3403.5	3399.7	3428.1	3462.1	3513.2	3556.7	3604.0	3630.5	3632.4	3626.7
10°	3397.8	3388.3	3416.7	3458.3	3524.6	3602.1	3685.4	3742.1	3749.7	3774.3
12.5°	3486.7	3477.3	3517.0	3562.4	3630.5	3711.9	3814.0	3893.5	3904.8	3938.9
15°	3636.2	3622.9	3668.3	3727.0	3814.0	3906.7	4014.6	4086.4	4095.9	4137.5
17.5°	3810.2	3797.0	3850.0	3912.4	4007.0	4133.7	4258.6	4338.1	4349.4	4375.9
20°	4033.5	4016.4	4058.1	4114.8	4215.1	4366.4	4515.9	4629.4	4627.5	4627.5
22.5°	4292.7	4266.2	4302.1	4347.5	4442.1	4625.6	4824.3	4958.6	4958.6	4905.6
25°	4570.8	4544.3	4584.0	4625.6	4708.9	4917.0	5149.7	5316.2	5323.7	5232.9
27.5°	4918.9	4884.8	4915.1	4964.3	5013.5	5225.4	5501.6	5694.5	5698.3	5558.3
30°	5588.6	5492.1	5397.5	5344.5	5367.2	5577.2	5872.4	6086.2	6105.1	5912.1
32.5°	6814.5	6795.6	6462.6	6027.5	5800.5	5955.6	6286.7	6544.0	6555.3	6307.5
35°	8719.6	8696.9	8161.5	7332.9	6593.2	6462.6	6789.9	7094.5	7087.0	6807.0
37.5°	10993.7	10972.9	10267.2	9158.6	7961.0	7228.8	7438.8	7758.6	7805.9	7438.8
40°	12936.6	12859.1	12412.6	11343.7	9777.2	8500.2	8362.1	8574.0	8623.2	8188.0
42.5°	14408.5	14342.3	14115.3	13447.4	11975.6	10380.7	9449.9	9531.3	9586.1	9064.0
45°	15170.9	15155.8	15246.6	15184.2	14215.5	12688.8	11005.0	10666.4	10687.2	10034.5
47.5°	15278.8	15271.2	15685.5	16272.0	16141.5	15292.0	13000.9	12081.5	12007.7	11129.9
50°	14643.1	14628.0	15422.5	16521.7	17427.9	17479.0	15267.4	13676.3	13513.6	12263.1
52.5°	12613.1	12609.3	13914.7	15744.2	17880.1	19393.6	17507.4	15428.2	15155.8	13462.6
55°	9705.3	9775.3	11271.8	13434.2	17055.2	20314.9	19518.5	17373.1	16955.0	14669.6
57.5°	6875.1	6977.2	8456.7	10382.6	14497.4	19770.1	20878.7	19321.7	18871.4	15872.8
60°	3692.9	3783.7	5265.1	7563.7	10785.6	17738.2	21595.7	21013.0	20587.4	17015.5
62.5°	2200.2	2230.5	2843.5	4882.9	7295.1	13551.5	21291.1	22301.4	21951.4	17974.7
65°	1579.7	1585.4	1893.8	2981.6	4428.9	8233.4	19155.2	22918.1	22810.3	18697.4
67.5°	1330.0	1326.2	1454.9	1980.8	3017.5	4124.3	14680.9	22046.0	22503.8	19155.2
70°	1140.8	1146.5	1297.8	1451.1	2268.4	2334.6	7298.8	19194.9	20171.1	19276.3
72.5°	849.5	868.4	1008.4	1322.4	1712.1	1606.2	2520.0	14232.6	15997.7	18162.0
75°	599.7	609.2	709.5	1112.4	1277.0	1169.2	1286.5	7357.5	9620.2	13924.2
77.5°	461.6	478.6	537.3	777.6	1258.1	821.1	787.0	2546.5	3912.4	8411.3
80°	249.7	280.0	387.8	561.9	883.5	580.8	389.7	1014.0	1326.2	3933.2
82.5°	128.6	143.8	270.5	404.9	503.2	507.0	193.0	421.9	546.8	1214.6
85°	51.1	62.4	181.6	223.2	259.2	249.7	87.0	170.3	196.8	336.8
87.5°	11.4	18.9	66.2	51.1	49.2	53.0	20.8	39.7	37.8	39.7
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°
3394.0	0°	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0
3416.7	2.5°	3414.8	3407.3	3386.5	3363.7	3337.3	3322.1	3312.7	3310.8	3297.5	3288.1
3492.4	5°	3471.6	3464.0	3424.3	3377.0	3325.9	3286.2	3248.3	3214.3	3165.1	3155.6
3602.1	7.5°	3585.1	3564.3	3500.0	3435.6	3339.2	3223.8	3083.8	2922.9	2779.2	2735.6
3747.8	10°	3725.1	3696.7	3615.4	3501.9	3288.1	2974.0	2635.4	2321.3	2071.6	2001.6
3920.0	12.5°	3884.0	3859.4	3751.6	3541.6	3074.3	2504.8	1986.5	1596.7	1354.6	1294.0
4103.5	15°	4073.2	4037.3	3887.8	3481.0	2692.1	1903.2	1364.0	1133.2	1046.2	1034.9
4313.5	17.5°	4273.7	4215.1	4008.9	3263.5	2177.5	1352.7	1053.8	987.6	949.7	938.4
4525.4	20°	4457.3	4381.6	4080.8	2934.3	1627.0	1053.8	944.0	900.5	866.5	853.2
4737.2	22.5°	4640.8	4532.9	4080.8	2485.9	1220.3	934.6	866.5	826.7	787.0	770.0
4964.3	25°	4831.8	4688.1	4008.9	1986.5	981.9	857.0	792.7	749.2	715.1	694.3
5179.9	27.5°	5017.2	4818.6	3844.3	1513.5	874.0	788.9	724.6	683.0	650.8	635.7
5414.5	30°	5193.2	4947.2	3613.5	1148.4	804.0	722.7	662.2	626.2	594.0	578.9
5719.1	32.5°	5431.6	5109.9	3367.5	942.2	743.5	660.3	605.4	571.3	543.0	531.6
6114.5	35°	5762.6	5350.2	3155.6	925.1	692.4	609.2	554.3	522.2	493.8	484.3
6625.3	37.5°	6231.8	5738.0	3044.0	1038.6	650.8	563.8	512.7	478.6	452.2	444.6
7274.3	40°	6810.7	6264.0	3104.6	1152.2	622.4	524.0	474.9	440.8	418.1	408.6
8019.6	42.5°	7497.5	6912.9	3439.4	1239.2	603.5	490.0	438.9	401.1	385.9	382.2
8865.3	45°	8286.4	7626.1	3952.1	1331.9	573.2	457.8	403.0	374.6	363.2	361.3
9784.8	47.5°	9183.2	8409.4	4546.2	1447.3	543.0	427.6	374.6	355.7	346.2	342.4
10743.9	50°	10072.3	9198.3	5157.2	1511.6	518.4	399.2	351.9	336.8	329.2	327.3
11758.0	52.5°	11003.1	10009.9	5651.0	1451.1	497.6	376.5	333.0	321.6	314.1	312.2
12692.6	55°	11890.4	10666.4	5736.2	1231.6	455.9	353.8	312.2	306.5	297.0	297.0
13640.4	57.5°	12654.7	10995.6	5134.5	904.3	414.3	319.7	291.3	285.7	278.1	276.2
14495.5	60°	13356.6	10901.0	3963.5	609.2	368.9	285.7	264.9	261.1	253.5	244.1
15239.0	62.5°	13752.0	10484.8	2711.1	397.3	323.5	249.7	234.6	232.7	215.7	196.8
15789.6	65°	13901.5	9629.6	1691.3	289.5	270.5	213.8	202.4	198.6	174.1	153.2
16101.7	67.5°	13770.9	8222.1	853.2	228.9	213.8	177.8	166.5	166.5	149.5	130.5
16082.8	70°	13248.8	6163.7	359.5	183.5	164.6	136.2	136.2	143.8	126.8	105.9
15248.5	72.5°	12115.6	4147.0	191.1	140.0	123.0	96.5	111.6	117.3	100.3	79.5
12480.7	75°	9631.5	2529.4	132.4	104.1	77.6	68.1	85.1	88.9	68.1	53.0
8556.9	77.5°	6587.5	1453.0	88.9	66.2	49.2	39.7	58.6	54.9	35.9	24.6
3299.4	80°	2892.7	605.4	51.1	30.3	18.9	15.1	20.8	15.1	11.4	7.6
452.2	82.5°	338.6	141.9	18.9	11.4	7.6	3.8	1.9	0.0	0.0	0.0
138.1	85°	70.0	17.0	9.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
24.6	87.5°	13.2	3.8	1.9	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°
3394.0
3297.5
3151.9
2714.8
1975.1
1277.0
1023.5
932.7
845.7
760.5
686.7
635.7
580.8
531.6
484.3
442.7
406.8
382.2
359.5
342.4
327.3
312.2
295.1
274.3
242.2
193.0
151.3
128.6
104.1
79.5
51.1
26.5
7.6
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