

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: P954295

Luminaire Tested: **GALN-SB7C-830-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954295  
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-SB7C-830-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

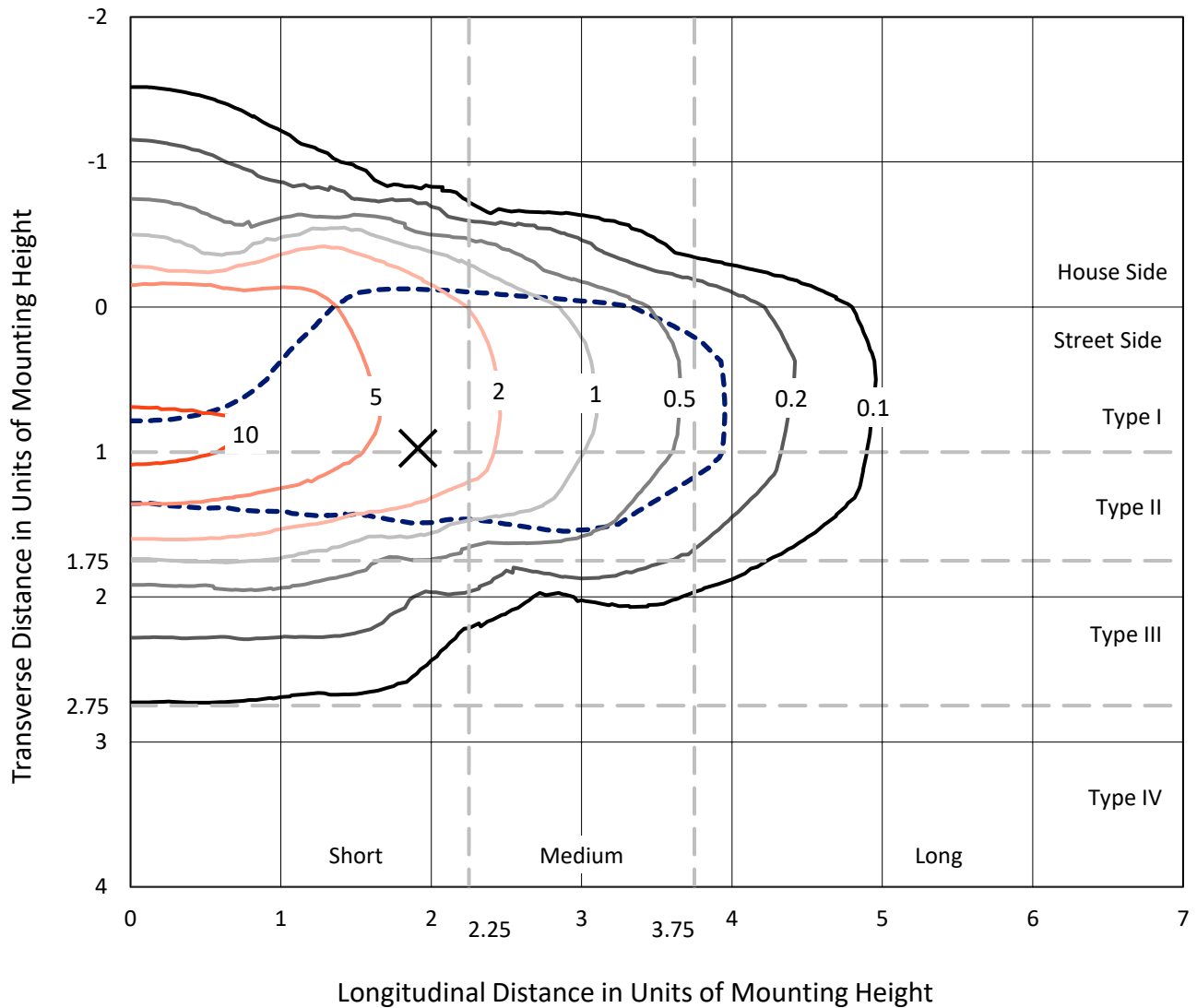
Lumens per Lamp: N/A  
Luminaire Lumens: 36574 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): 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

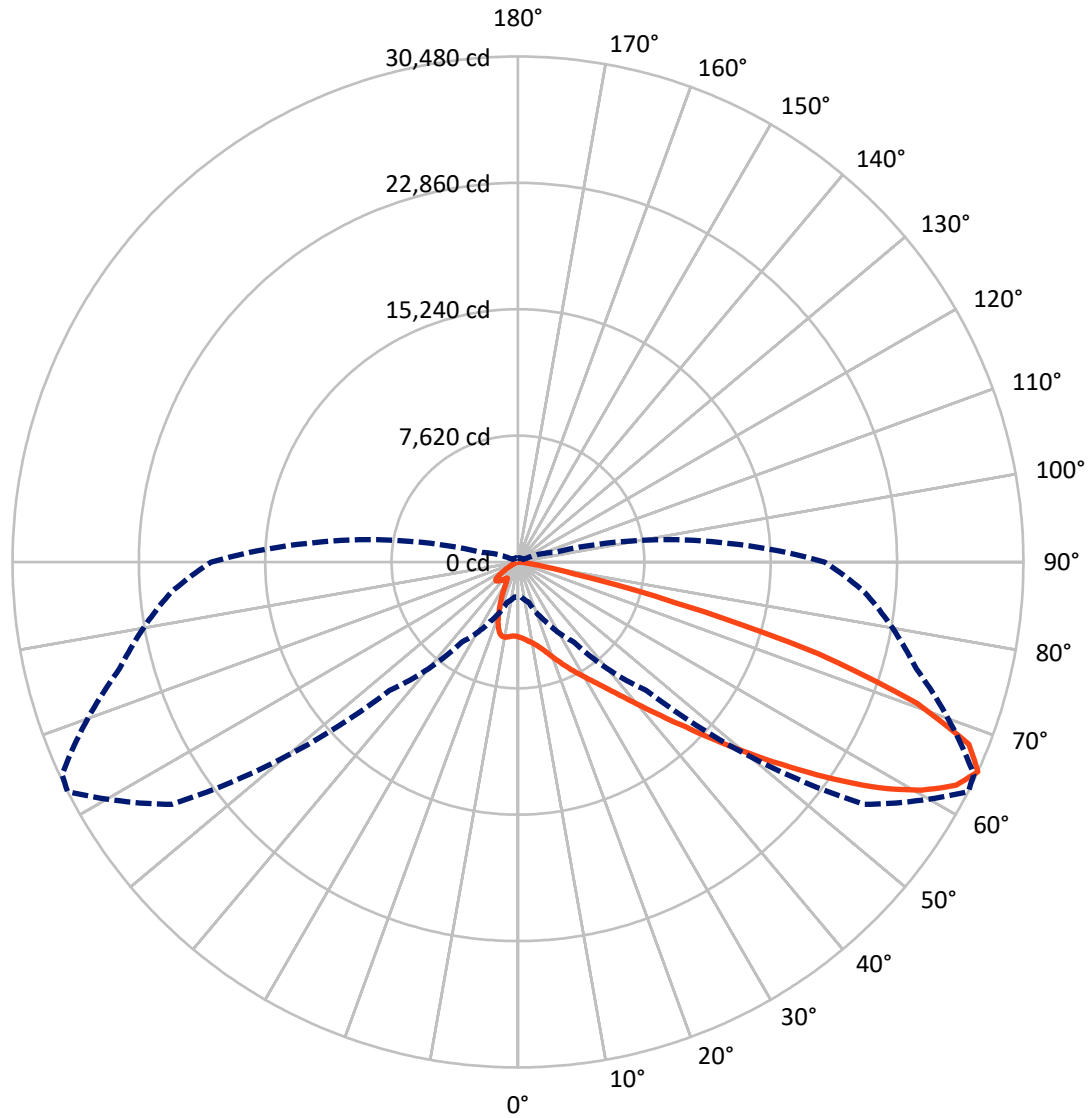
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	5376.1	0.0	5376.1
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	31197.9	0.0	31197.9
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	36574.0	0.0	36574.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.3	1.2
10°-20°	1180.0	3.2
20°-30°	2054.8	5.6
30°-40°	3703.5	10.1
40°-50°	7345.2	20.1
50°-60°	10005.4	27.4
60°-70°	7986.2	21.8
70°-80°	3613.9	9.9
80°-90°	259.8	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°	36574.0	100.0
0°-180°	36574.0	100.0

**Coefficient of Utilization**



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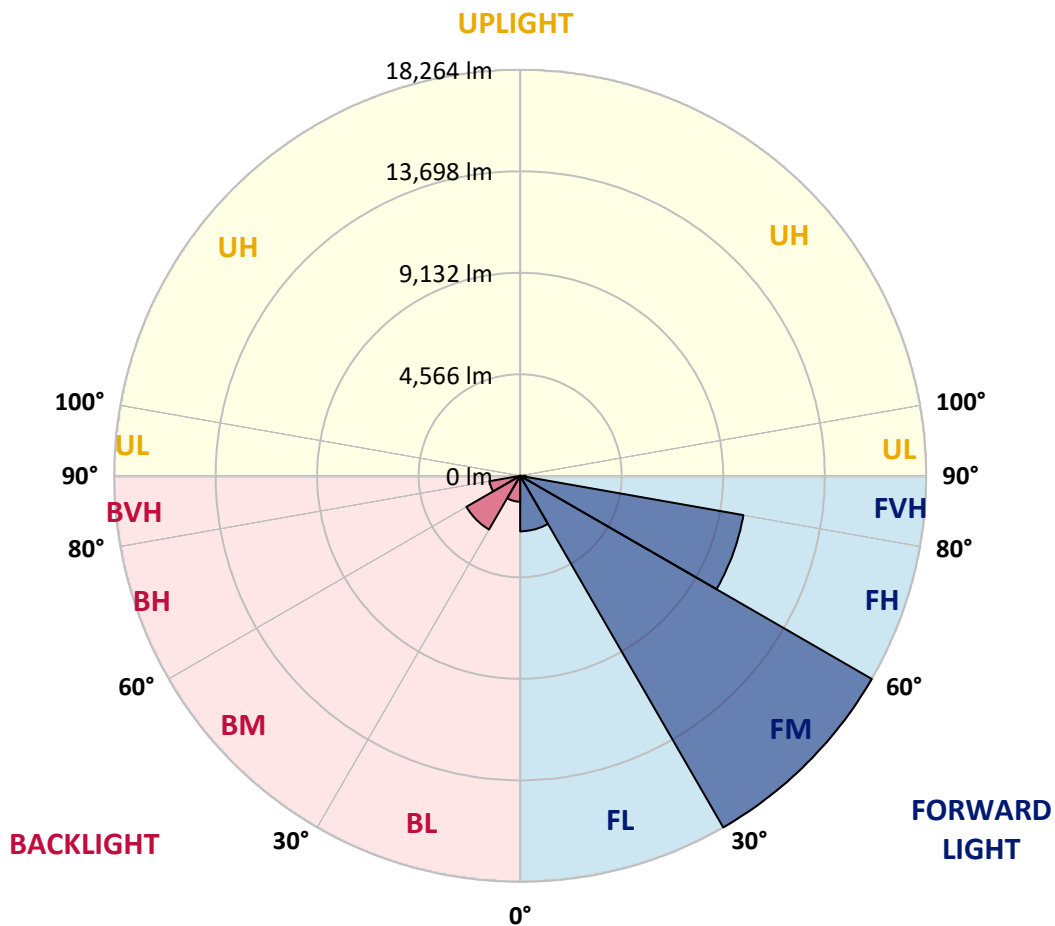
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2496.6	6.8			
FM (30°-60°)	18264.1	49.9			
FH (60°-80°)	10196.7	27.9			G4/12000
FVH (80°-90°)	240.5	0.7			G3/500
BL (0°-30°)	1163.5	3.2	B3/2500		
BM (30°-60°)	2789.9	7.6	B3/5000		
BH (60°-80°)	1403.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.3	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°	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9
2.5°	4619.6	4607.0	4624.6	4617.1	4612.1	4602.0	4597.0	4591.9	4581.9	4574.3
5°	4632.2	4624.6	4642.2	4657.3	4672.4	4687.5	4695.1	4705.1	4695.1	4675.0
7.5°	4526.5	4521.5	4559.2	4604.5	4672.4	4730.3	4793.2	4828.4	4831.0	4823.4
10°	4519.0	4506.4	4544.1	4599.5	4687.5	4790.7	4901.4	4976.9	4987.0	5019.7
12.5°	4637.2	4624.6	4677.5	4737.9	4828.4	4936.6	5072.5	5178.2	5193.3	5238.6
15°	4836.0	4818.4	4878.8	4956.8	5072.5	5195.8	5339.2	5434.8	5447.4	5502.8
17.5°	5067.5	5049.9	5120.3	5203.3	5329.1	5497.7	5663.8	5769.5	5784.6	5819.8
20°	5364.4	5341.7	5397.1	5472.6	5605.9	5807.2	6006.0	6157.0	6154.4	6154.4
22.5°	5709.1	5673.9	5721.7	5782.0	5907.9	6151.9	6416.1	6594.8	6594.8	6524.3
25°	6079.0	6043.7	6096.6	6151.9	6262.6	6539.4	6848.9	7070.3	7080.4	6959.6
27.5°	6541.9	6496.6	6536.9	6602.3	6667.7	6949.5	7316.9	7573.5	7578.6	7392.4
30°	7432.6	7304.3	7178.5	7108.0	7138.2	7417.5	7810.0	8094.4	8119.5	7862.9
32.5°	9063.1	9037.9	8595.1	8016.4	7714.4	7920.8	8361.1	8703.3	8718.4	8388.8
35°	11596.8	11566.6	10854.5	9752.5	8768.7	8595.1	9030.4	9435.5	9425.4	9053.0
37.5°	14621.2	14593.5	13655.0	12180.5	10587.8	9614.1	9893.4	10318.6	10381.5	9893.4
40°	17205.2	17102.1	16508.3	15086.7	13003.3	11304.9	11121.3	11403.1	11468.5	10889.8
42.5°	19162.8	19074.7	18772.8	17884.6	15927.1	13806.0	12568.0	12676.2	12749.2	12054.7
45°	20176.8	20156.7	20277.4	20194.4	18906.1	16875.6	14636.3	14185.9	14213.6	13345.5
47.5°	20320.2	20310.1	20861.2	21641.2	21467.6	20337.8	17290.8	16068.0	15969.8	14802.3
50°	19474.8	19454.7	20511.4	21973.3	23178.5	23246.5	20305.1	18189.0	17972.7	16309.5
52.5°	16775.0	16770.0	18506.1	20939.2	23779.9	25792.8	23284.2	20519.0	20156.7	17904.7
55°	12907.7	13000.8	14991.1	17867.0	22682.8	27018.1	25958.8	23105.5	22549.5	19510.0
57.5°	9143.6	9279.5	11247.1	13808.5	19281.0	26293.5	27767.9	25697.2	25098.3	21110.3
60°	4911.5	5032.2	7002.4	10059.5	14344.4	23591.2	28721.5	27946.6	27380.4	22630.0
62.5°	2926.2	2966.5	3781.7	6494.1	9702.2	18023.0	28316.4	29660.0	29194.6	23905.7
65°	2101.0	2108.5	2518.6	3965.4	5890.2	10950.2	25475.7	30480.3	30336.9	24866.8
67.5°	1768.8	1763.8	1934.9	2634.4	4013.2	5485.1	19525.1	29320.4	29929.3	25475.7
70°	1517.2	1524.8	1726.1	1929.9	3016.8	3104.9	9707.2	25528.6	26826.9	25636.8
72.5°	1129.7	1154.9	1341.1	1758.8	2277.1	2136.2	3351.5	18928.8	21276.3	24154.8
75°	797.6	810.2	943.5	1479.5	1698.4	1555.0	1711.0	9785.2	12794.5	18518.7
77.5°	613.9	636.6	714.6	1034.1	1673.2	1092.0	1046.7	3386.7	5203.3	11186.7
80°	332.1	372.4	515.8	747.3	1175.0	772.4	518.3	1348.6	1763.8	5231.0
82.5°	171.1	191.2	359.8	538.5	669.3	674.3	256.6	561.1	727.2	1615.4
85°	67.9	83.0	241.5	296.9	344.7	332.1	115.7	226.5	261.7	447.9
87.5°	15.1	25.2	88.1	67.9	65.4	70.5	27.7	52.8	50.3	52.8
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°
4513.9	0°	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9	4513.9
4544.1	2.5°	4541.6	4531.5	4503.9	4473.7	4438.4	4418.3	4405.7	4403.2	4385.6	4373.0
4644.8	5°	4617.1	4607.0	4554.2	4491.3	4423.3	4370.5	4320.2	4274.9	4209.5	4196.9
4790.7	7.5°	4768.1	4740.4	4654.8	4569.3	4441.0	4287.5	4101.3	3887.4	3696.2	3638.3
4984.4	10°	4954.2	4916.5	4808.3	4657.3	4373.0	3955.3	3505.0	3087.3	2755.2	2662.1
5213.4	12.5°	5165.6	5132.9	4989.5	4710.2	4088.7	3331.3	2641.9	2123.6	1801.5	1721.0
5457.5	15°	5417.2	5369.4	5170.6	4629.7	3580.4	2531.2	1814.1	1507.2	1391.4	1376.3
5736.8	17.5°	5683.9	5605.9	5331.7	4340.3	2896.1	1799.0	1401.5	1313.4	1263.1	1248.0
6018.6	20°	5928.0	5827.3	5427.3	3902.5	2163.9	1401.5	1255.5	1197.7	1152.4	1134.8
6300.4	22.5°	6172.0	6028.6	5427.3	3306.2	1622.9	1243.0	1152.4	1099.5	1046.7	1024.1
6602.3	25°	6426.2	6235.0	5331.7	2641.9	1305.9	1139.8	1054.3	996.4	951.1	923.4
6889.1	27.5°	6672.8	6408.6	5112.8	2012.9	1162.4	1049.2	963.7	908.3	865.5	845.4
7201.1	30°	6906.8	6579.7	4805.8	1527.3	1069.4	961.2	880.6	832.8	790.1	769.9
7606.2	32.5°	7223.8	6796.0	4478.7	1253.0	988.8	878.1	805.2	759.9	722.1	707.0
8132.1	35°	7664.1	7115.6	4196.9	1230.4	920.9	810.2	737.2	694.4	656.7	644.1
8811.5	37.5°	8288.1	7631.4	4048.4	1381.4	865.5	749.8	681.9	636.6	601.4	591.3
9674.5	40°	9058.0	8330.9	4129.0	1532.3	827.8	697.0	631.5	586.3	556.1	543.5
10665.8	42.5°	9971.4	9193.9	4574.3	1648.1	802.6	651.7	583.7	533.4	513.3	508.3
11790.5	45°	11020.6	10142.5	5256.2	1771.3	762.4	608.9	535.9	498.2	483.1	480.6
13013.4	47.5°	12213.3	11184.2	6046.2	1924.8	722.1	568.6	498.2	473.0	460.5	455.4
14289.1	50°	13395.8	12233.4	6858.9	2010.4	689.4	530.9	468.0	447.9	437.8	435.3
15637.7	52.5°	14633.8	13312.8	7515.7	1929.9	661.7	500.7	442.8	427.7	417.7	415.2
16880.7	55°	15813.8	14185.9	7628.9	1638.0	606.4	470.5	415.2	407.6	395.0	395.0
18141.2	57.5°	16830.3	14623.7	6828.8	1202.7	551.0	425.2	387.5	379.9	369.9	367.4
19278.5	60°	17763.8	14497.9	5271.3	810.2	490.6	379.9	352.3	347.2	337.2	324.6
20267.4	62.5°	18289.7	13944.3	3605.6	528.4	430.3	332.1	312.0	309.5	286.8	261.7
20999.6	65°	18488.5	12807.1	2249.4	385.0	359.8	284.3	269.2	264.2	231.5	203.8
21414.7	67.5°	18314.9	10935.1	1134.8	304.5	284.3	236.5	221.4	221.4	198.8	173.6
21389.6	70°	17620.4	8197.5	478.1	244.1	218.9	181.2	181.2	191.2	168.6	140.9
20279.9	72.5°	16113.2	5515.3	254.1	186.2	163.5	128.3	148.5	156.0	133.4	105.7
16598.9	75°	12809.6	3364.1	176.1	138.4	103.2	90.6	113.2	118.3	90.6	70.5
11380.4	77.5°	8761.1	1932.4	118.3	88.1	65.4	52.8	78.0	73.0	47.8	32.7
4388.1	80°	3847.2	805.2	67.9	40.3	25.2	20.1	27.7	20.1	15.1	10.1
601.4	82.5°	450.4	188.7	25.2	15.1	10.1	5.0	2.5	0.0	0.0	0.0
183.7	85°	93.1	22.6	12.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0
32.7	87.5°	17.6	5.0	2.5	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>
4513.9
4385.6
4191.9
3610.6
2626.8
1698.4
1361.2
1240.4
1124.7
1011.5
913.4
845.4
772.4
707.0
644.1
588.8
541.0
508.3
478.1
455.4
435.3
415.2
392.5
364.8
322.1
256.6
201.3
171.1
138.4
105.7
67.9
35.2
10.1
0.0
0.0
0.0
0.0

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