

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: P949656

Luminaire Tested: **GALN-SB4B-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949656  
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-SB4B-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

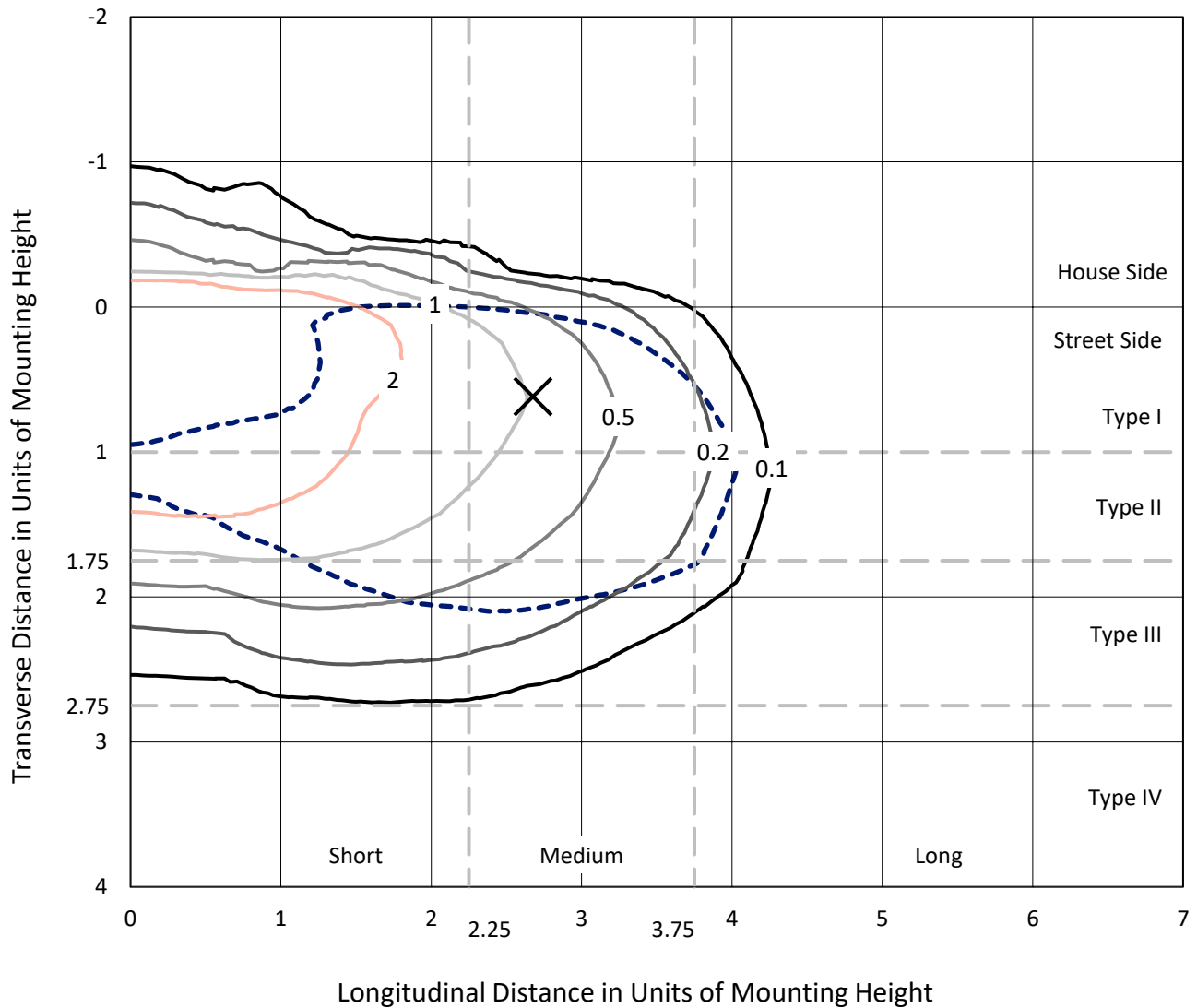
Lumens per Lamp: N/A  
Luminaire Lumens: 16883 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

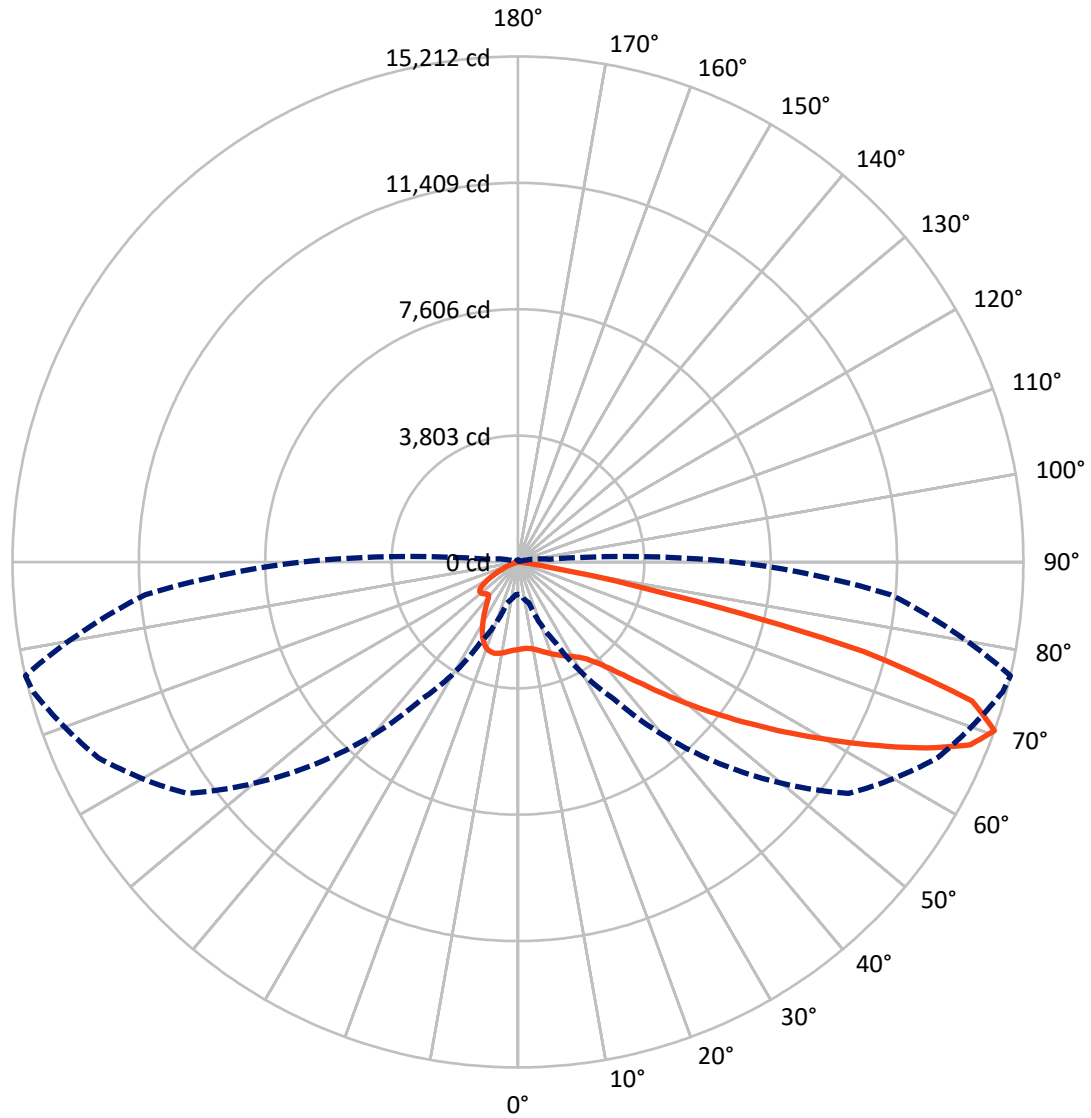
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
<b>House Side</b>	Lumens	1779.7	0.0	1779.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	15103.3	0.0	15103.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16883.0	0.0	16883.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.0	1.3
10°-20°	538.8	3.2
20°-30°	833.3	4.9
30°-40°	1512.1	9.0
40°-50°	2854.4	16.9
50°-60°	4124.3	24.4
60°-70°	4390.2	26.0
70°-80°	2326.5	13.8
80°-90°	76.4	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°	16883.0	100.0
0°-180°	16883.0	100.0



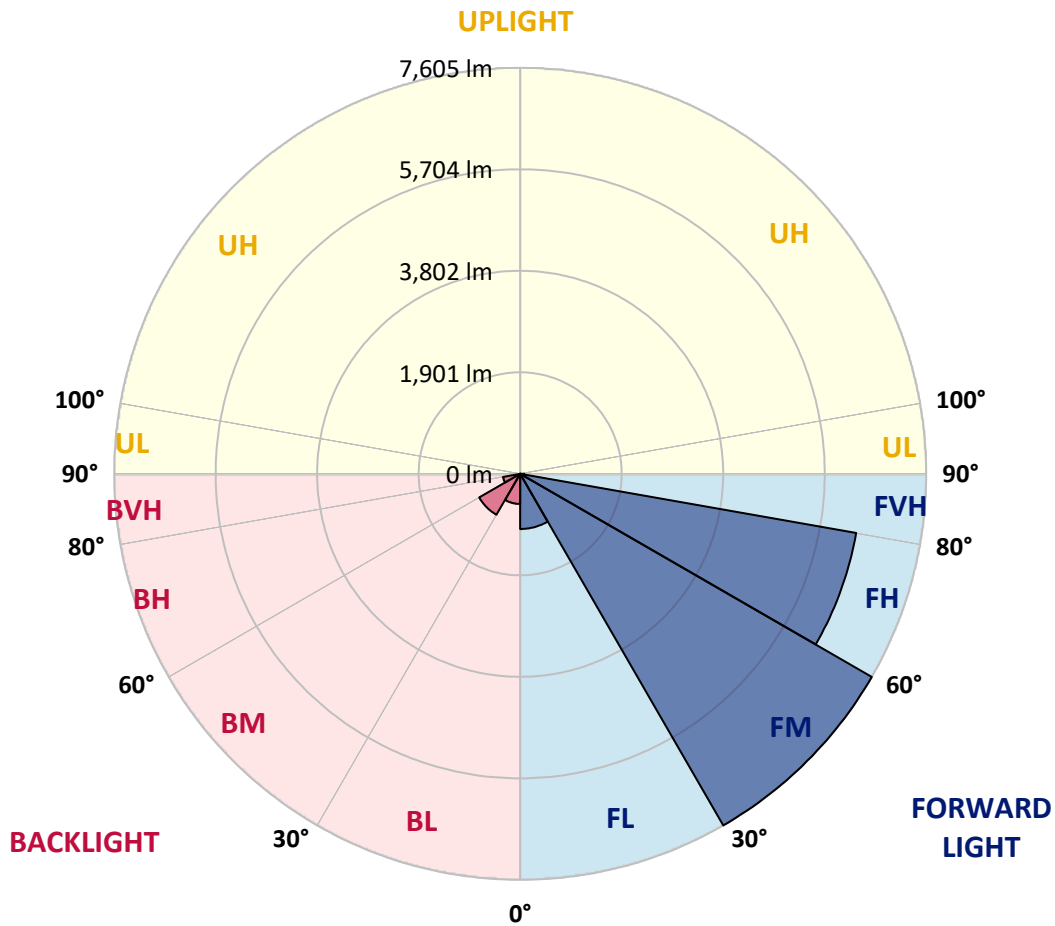
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1033.6	6.1			
FM (30°-60°)	7604.9	45.0			
FH (60°-80°)	6390.5	37.9			G3/7500
FVH (80°-90°)	74.3	0.4			G1/100
BL (0°-30°)	565.4	3.3	B2/1000		
BM (30°-60°)	885.9	5.2	B1/1000		
BH (60°-80°)	326.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.1	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-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4
2.5°	2472.5	2494.8	2491.6	2506.6	2511.9	2533.2	2554.5	2583.3	2615.3	2614.3
5°	2332.8	2355.2	2360.5	2380.8	2406.3	2439.4	2483.1	2540.7	2600.4	2610.0
7.5°	2167.5	2191.0	2204.8	2245.4	2292.3	2360.5	2431.9	2516.2	2615.3	2629.2
10°	2002.3	2023.6	2041.7	2099.3	2173.9	2275.2	2391.4	2513.0	2646.2	2666.5
12.5°	1899.9	1920.2	1940.4	1990.5	2083.3	2207.0	2364.8	2527.9	2697.4	2726.2
15°	1863.7	1881.8	1897.8	1942.6	2028.9	2169.7	2359.4	2558.8	2762.4	2800.8
17.5°	1869.0	1878.6	1889.3	1923.4	2007.6	2152.6	2369.0	2612.1	2839.2	2873.3
20°	1899.9	1905.2	1906.3	1929.8	2004.4	2150.5	2388.2	2663.3	2911.7	2957.6
22.5°	1939.4	1941.5	1939.4	1955.4	2024.7	2166.5	2413.8	2725.1	2992.7	3035.4
25°	2123.8	2083.3	2032.1	2001.2	2058.8	2197.4	2452.2	2808.3	3081.2	3122.8
27.5°	2696.3	2580.1	2396.8	2191.0	2129.1	2242.2	2505.5	2892.5	3170.8	3208.1
30°	3626.0	3473.6	3162.3	2698.5	2355.2	2336.0	2574.8	2976.8	3265.7	3306.2
32.5°	4557.9	4520.6	4161.3	3519.4	2863.7	2545.0	2690.0	3090.8	3391.5	3423.5
35°	5500.4	5424.7	5130.4	4496.0	3647.4	2970.4	2881.9	3240.1	3556.7	3593.0
37.5°	6222.2	6176.3	5994.0	5471.6	4577.1	3627.1	3210.2	3471.5	3796.6	3837.2
40°	6859.7	6838.4	6776.6	6432.2	5616.6	4486.4	3720.9	3829.7	4129.3	4177.3
42.5°	7360.8	7411.0	7446.1	7350.2	6688.1	5467.3	4407.6	4332.9	4593.1	4642.1
45°	7873.7	7890.7	8032.5	8171.1	7752.1	6493.0	5181.6	4922.5	5169.9	5230.6
47.5°	8203.1	8271.4	8520.8	8765.0	8646.6	7510.1	6013.2	5618.7	5838.4	5952.4
50°	8227.6	8356.7	8700.0	9125.4	9298.1	8478.2	6917.3	6412.0	6645.4	6771.3
52.5°	7819.3	8019.7	8551.8	9174.4	9649.9	9298.1	7852.4	7205.2	7504.8	7669.0
55°	5995.1	6257.4	7994.2	8907.9	9663.8	9919.7	8762.9	8031.5	8462.2	8647.7
57.5°	5223.2	5355.4	6285.1	8445.1	9406.8	10170.2	9585.9	8818.3	9503.9	9734.1
60°	4345.7	4519.5	5271.2	7688.2	9058.2	10194.7	10313.1	9833.3	10632.9	10892.0
62.5°	2953.3	3142.0	3889.4	6387.4	8581.6	10183.0	10909.1	10878.1	11887.8	12166.1
65°	1829.5	1947.9	2440.5	5215.7	7915.3	10195.8	11532.8	12146.9	13212.0	13494.5
67.5°	1445.7	1500.1	1757.1	4004.5	6767.0	9907.9	12155.4	13339.9	14458.3	14682.2
70°	971.3	1004.3	1278.3	2684.6	5034.5	8579.5	12143.7	13939.1	15100.2	15212.1
72.5°	511.8	537.4	747.4	1243.2	3040.7	6098.5	10236.3	13222.7	14461.5	14293.1
75°	255.9	298.5	503.2	631.2	1298.6	3401.1	6356.5	10425.0	11382.4	10729.9
77.5°	194.0	234.6	415.8	415.8	452.1	1145.1	2692.1	5685.9	5244.5	4367.0
80°	123.7	159.9	363.6	314.5	188.7	291.1	701.5	1592.9	1114.1	847.6
82.5°	72.5	104.5	302.8	207.9	105.6	107.7	198.3	339.0	288.9	225.0
85°	28.8	68.2	207.9	82.1	41.6	26.7	59.7	72.5	59.7	44.8
87.5°	0.0	16.0	36.2	0.0	3.2	2.1	4.3	5.3	5.3	4.3
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°
2633.4	0°	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4	2633.4
2635.6	2.5°	2645.2	2647.3	2653.7	2654.8	2639.8	2620.6	2613.2	2610.0	2597.2	2596.1
2652.6	5°	2677.2	2686.8	2677.2	2649.4	2583.3	2490.6	2420.2	2362.6	2310.4	2294.4
2711.3	7.5°	2741.1	2750.7	2721.9	2613.2	2446.9	2262.4	2096.1	1978.8	1873.3	1833.8
2782.7	10°	2832.8	2845.6	2755.0	2535.4	2241.1	1944.7	1663.2	1464.9	1310.3	1247.4
2879.7	12.5°	2948.0	2953.3	2773.1	2417.0	1973.5	1550.2	1151.5	939.3	801.8	750.6
2997.0	15°	3074.8	3067.4	2775.2	2256.0	1608.9	1096.0	751.7	617.3	561.9	544.8
3114.3	17.5°	3208.1	3177.2	2732.6	2023.6	1209.0	749.5	557.6	525.6	516.0	511.8
3230.5	20°	3339.2	3269.9	2654.8	1719.7	867.9	559.7	506.4	496.8	491.5	489.4
3347.8	22.5°	3458.7	3340.3	2521.5	1366.8	630.1	494.7	478.7	470.2	460.6	456.3
3461.9	25°	3574.9	3380.8	2333.8	1037.4	504.3	462.7	449.9	433.9	421.1	415.8
3584.5	27.5°	3687.9	3406.4	2099.3	767.6	449.9	432.9	409.4	387.0	377.4	375.3
3715.6	30°	3808.4	3414.9	1832.7	572.5	416.9	395.5	361.4	335.8	330.5	331.6
3892.6	32.5°	3955.5	3427.7	1564.1	469.1	389.2	350.8	310.3	283.6	279.3	283.6
4150.6	35°	4131.4	3453.3	1305.0	431.8	364.6	304.9	261.2	238.8	234.6	237.8
4481.1	37.5°	4370.2	3494.9	1063.0	424.3	344.4	266.5	219.6	201.5	201.5	202.6
4886.3	40°	4688.0	3605.8	846.5	419.0	333.7	237.8	185.5	178.1	181.2	183.4
5402.3	42.5°	5075.0	3841.4	700.5	412.6	322.0	225.0	168.5	165.3	170.6	172.7
6020.7	45°	5508.9	4139.9	649.3	401.9	311.3	233.5	161.0	156.7	163.1	164.2
6713.7	47.5°	5957.8	4432.1	642.9	390.2	300.7	246.3	158.9	149.3	156.7	157.8
7453.6	50°	6412.0	4622.9	649.3	372.1	283.6	246.3	159.9	141.8	148.2	151.4
8221.2	52.5°	6869.3	4710.3	645.0	332.6	253.7	231.4	159.9	135.4	141.8	143.9
9050.7	55°	7312.9	4693.3	580.0	274.0	215.4	204.7	155.7	130.1	134.3	135.4
9834.4	57.5°	7663.6	4455.5	459.5	213.2	174.9	170.6	141.8	123.7	126.9	125.8
10553.0	60°	7847.0	3933.1	328.4	164.2	137.5	134.3	124.7	115.1	117.3	111.9
11161.7	62.5°	7849.2	3242.2	219.6	130.1	109.8	106.6	106.6	103.4	101.3	90.6
11633.0	65°	7681.8	2475.6	146.1	103.4	88.5	83.2	89.6	88.5	81.0	66.1
11776.9	67.5°	7302.2	1622.7	110.9	81.0	68.2	65.0	71.4	74.6	69.3	55.4
11252.4	70°	6521.8	944.6	91.7	62.9	51.2	48.0	57.6	64.0	57.6	44.8
9617.9	72.5°	5417.2	509.6	74.6	46.9	35.2	32.0	45.8	52.2	45.8	33.1
6171.0	75°	3515.2	272.9	57.6	30.9	18.1	20.3	34.1	38.4	32.0	21.3
1811.4	77.5°	1180.3	120.5	36.2	14.9	8.5	8.5	20.3	23.5	14.9	7.5
329.4	80°	263.3	50.1	14.9	6.4	3.2	3.2	4.3	4.3	2.1	0.0
101.3	82.5°	86.4	20.3	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
25.6	85°	33.1	7.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	12.8	1.1	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°
2633.4
2598.3
2284.8
1817.8
1220.8
734.6
544.8
510.7
487.2
455.3
413.7
373.2
331.6
282.5
236.7
201.5
183.4
172.7
165.3
158.9
152.5
143.9
135.4
125.8
110.9
87.4
64.0
54.4
42.6
32.0
19.2
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