

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: P941656

Luminaire Tested: **GALN-SB5B-750-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

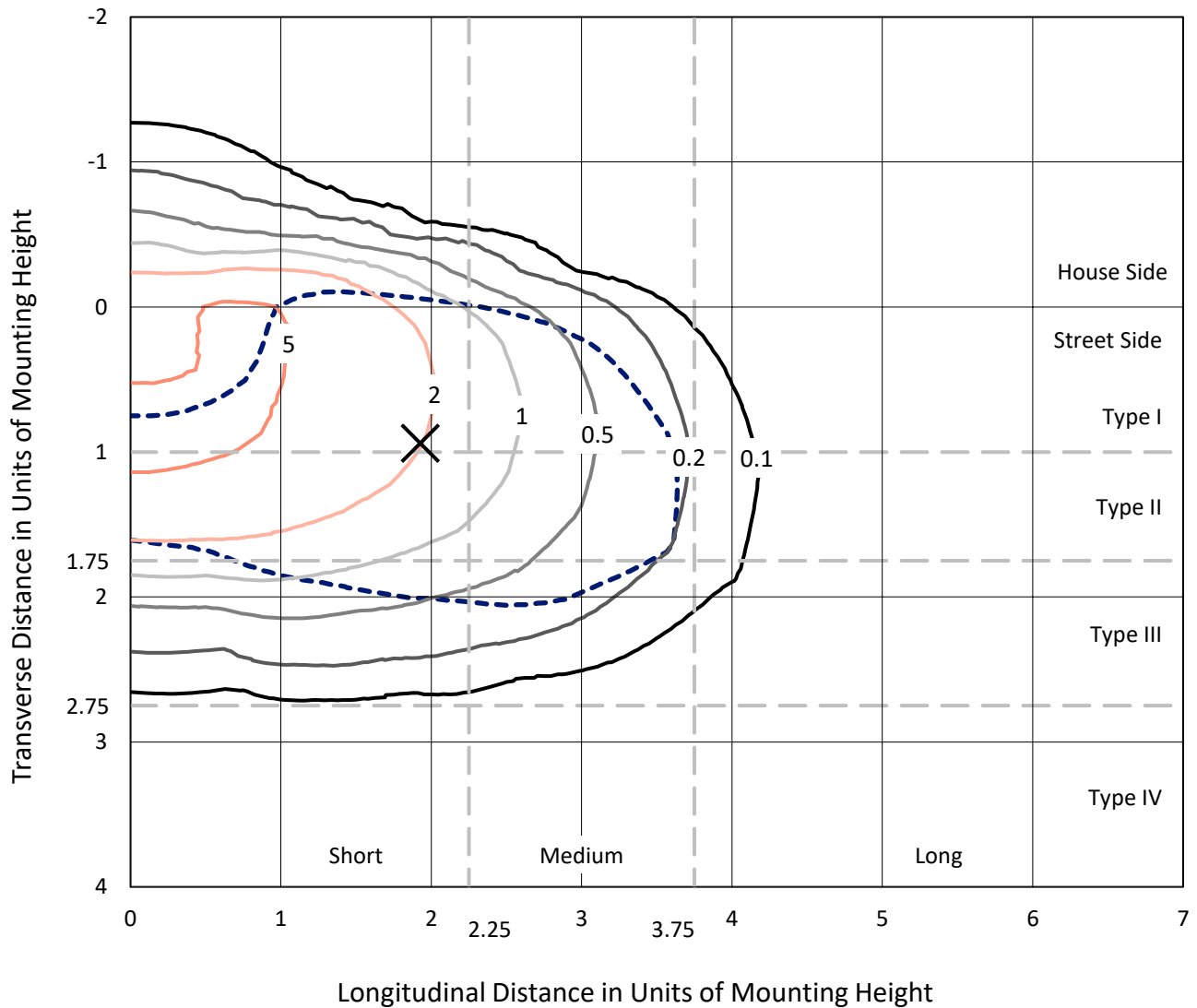
Lumens per Lamp: N/A  
Luminaire Lumens: 23602 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

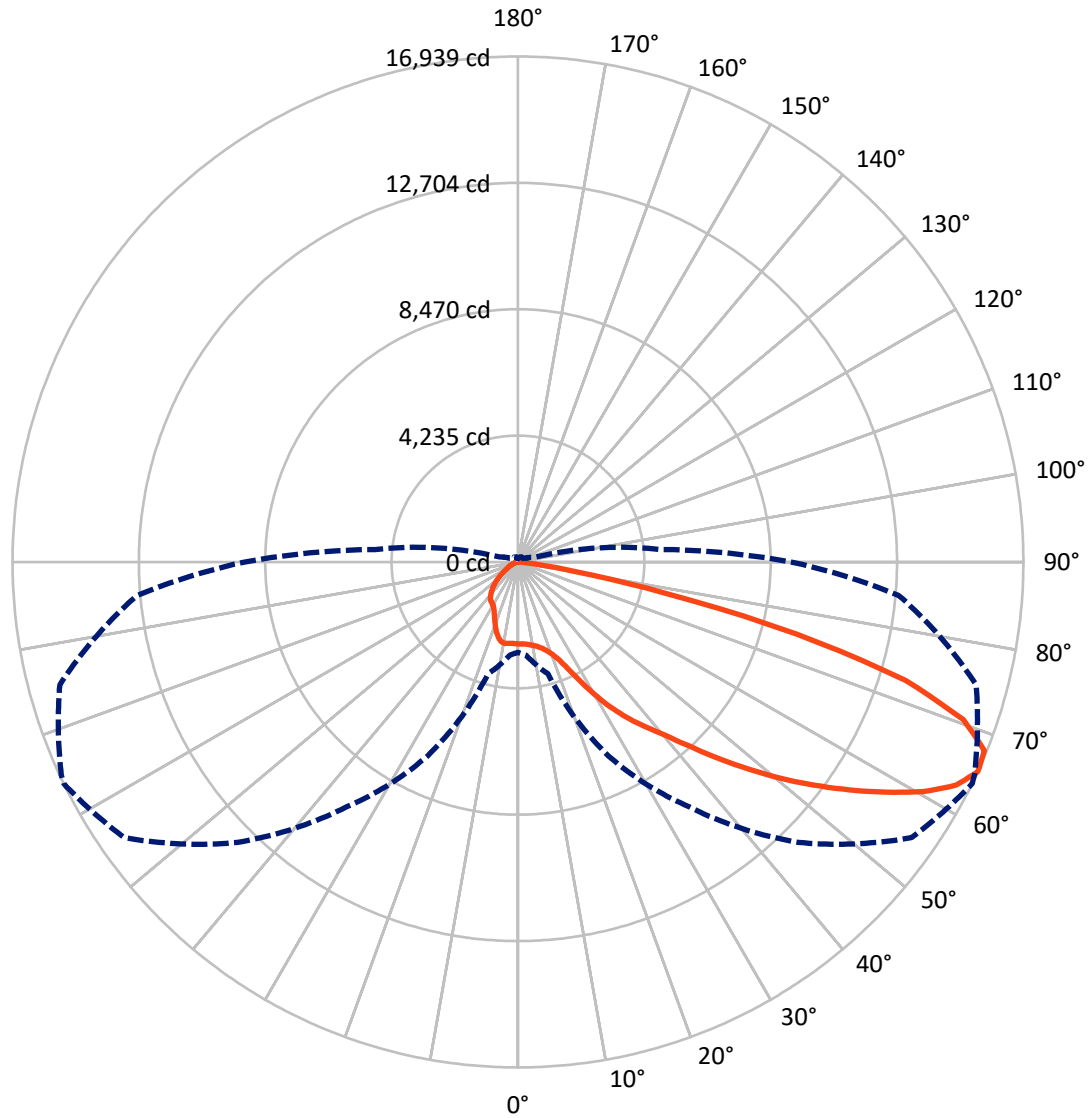
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3156.3	0.0	3156.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	20445.7	0.0	20445.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	23602.0	0.0	23602.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.3	1.1
10°-20°	686.9	2.9
20°-30°	1301.7	5.5
30°-40°	2634.0	11.2
40°-50°	4487.0	19.0
50°-60°	6102.0	25.9
60°-70°	5730.1	24.3
70°-80°	2295.7	9.7
80°-90°	111.2	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°	23602.0	100.0
0°-180°	23602.0	100.0

**Coefficient of Utilization**



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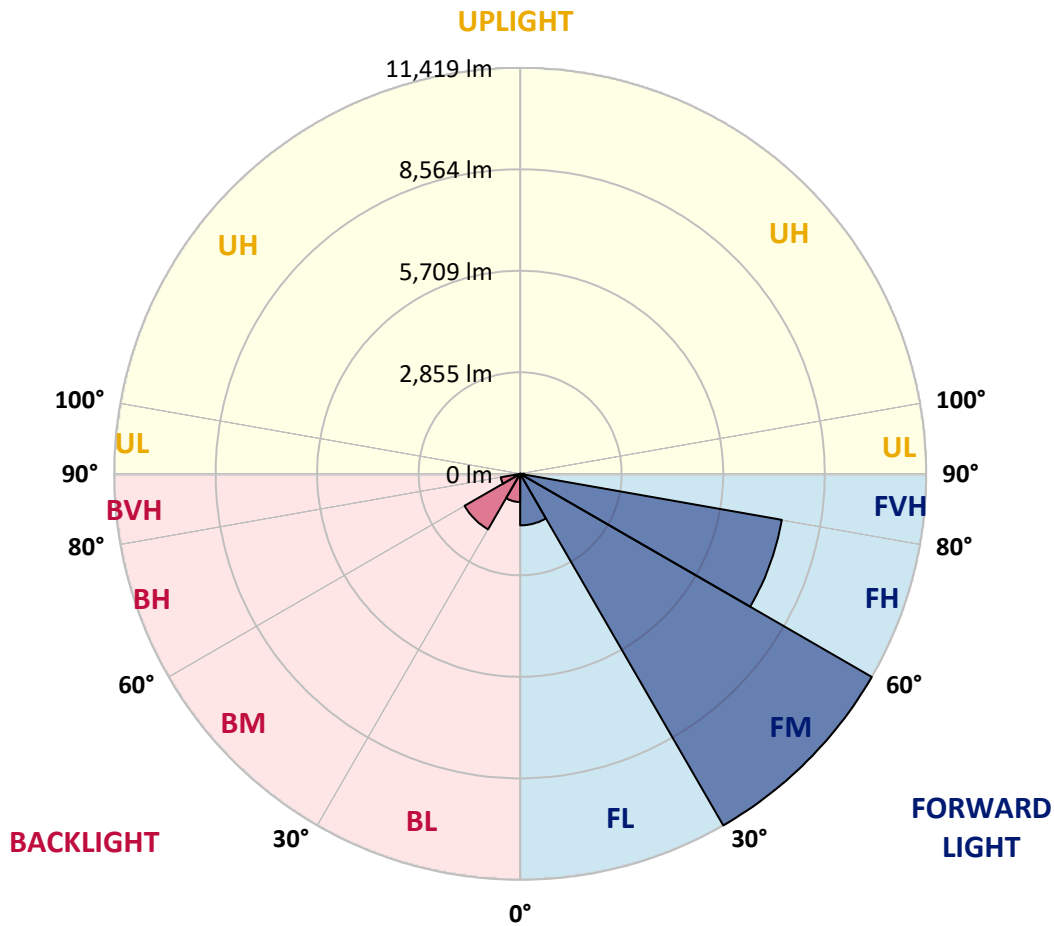
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.4	6.1			
FM (30°-60°)	11418.6	48.4			
FH (60°-80°)	7471.9	31.7			G3/7500
FVH (80°-90°)	105.8	0.4			G2/225
BL (0°-30°)	792.5	3.4	B2/1000		
BM (30°-60°)	1804.4	7.6	B2/2500		
BH (60°-80°)	554.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.4	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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2.5°	2735.7	2754.7	2749.9	2745.2	2743.6	2746.7	2748.3	2746.7	2746.7	2746.7
5°	2683.5	2699.3	2699.3	2710.3	2726.2	2745.2	2759.4	2762.6	2765.7	2770.5
7.5°	2583.8	2596.4	2605.9	2642.3	2681.9	2732.5	2775.2	2797.4	2800.5	2817.9
10°	2515.7	2531.6	2547.4	2585.4	2642.3	2718.3	2791.0	2844.8	2852.7	2893.9
12.5°	2512.6	2528.4	2549.0	2590.1	2656.6	2737.2	2825.9	2903.4	2917.6	2977.7
15°	2545.8	2564.8	2583.8	2634.4	2705.6	2803.7	2898.6	2995.1	3009.4	3094.8
17.5°	2613.8	2639.1	2653.4	2704.0	2780.0	2889.1	3014.1	3124.9	3137.5	3237.2
20°	2748.3	2778.4	2783.1	2824.3	2898.6	3015.7	3164.4	3302.1	3317.9	3431.8
22.5°	3026.8	3069.5	3031.5	3052.1	3118.6	3235.6	3397.0	3571.1	3593.2	3723.0
25°	3517.3	3577.4	3479.3	3444.5	3473.0	3594.8	3797.3	4017.3	4042.6	4147.0
27.5°	4480.9	4403.3	4254.6	4109.0	4023.6	4093.2	4321.1	4593.2	4624.8	4726.1
30°	5539.4	5471.3	5270.4	4947.6	4745.1	4734.0	4944.4	5248.2	5284.6	5381.1
32.5°	6599.5	6534.6	6316.2	5919.1	5567.8	5393.8	5539.4	5876.4	5895.4	5957.1
35°	7642.1	7575.7	7357.3	6950.7	6518.8	6123.2	6094.7	6474.5	6480.8	6545.7
37.5°	8691.2	8635.8	8403.2	8004.5	7578.9	7033.0	6768.8	7040.9	7048.8	7112.1
40°	9439.5	9463.3	9303.5	8994.9	8629.4	8032.9	7525.1	7643.7	7596.3	7702.3
42.5°	10081.9	10129.4	9990.2	9835.1	9623.1	9097.8	8461.7	8441.2	8365.2	8422.2
45°	10637.3	10676.8	10551.8	10515.5	10510.7	10142.1	9485.4	9362.0	9256.0	9244.9
47.5°	10841.4	10917.3	10971.1	11093.0	11330.3	11175.2	10543.9	10352.5	10233.8	10146.8
50°	10918.9	10999.6	11183.2	11537.6	12099.3	12165.7	11597.7	11382.5	11237.0	11078.7
52.5°	10814.5	10958.5	11205.3	11801.8	12616.6	12960.0	12608.7	12420.5	12254.3	11996.4
55°	10199.0	10343.0	10847.7	11798.6	12874.6	13516.9	13564.4	13480.5	13293.8	12887.2
57.5°	8901.6	9115.2	9914.2	11396.8	12869.8	13996.3	14501.1	14561.2	14352.3	13770.1
60°	7104.2	7393.7	8368.4	10506.0	12472.7	14255.8	15322.3	15622.9	15401.4	14640.3
62.5°	4957.1	5292.5	6215.0	9110.4	11564.5	14069.1	15921.9	16477.3	16309.6	15418.8
65°	3023.6	3131.2	3874.9	7169.1	10020.2	13287.5	16107.0	16939.3	16883.9	15895.0
67.5°	2014.2	2104.4	2318.0	4916.0	7778.2	11725.9	15664.0	16858.6	16874.4	15817.5
70°	1213.6	1291.1	1430.3	2859.1	5041.0	9281.3	14292.2	15830.1	15921.9	14781.1
72.5°	500.0	552.2	678.8	1295.8	2610.7	5890.6	11380.9	13591.3	13804.9	12428.4
75°	283.2	310.1	398.7	650.3	1132.9	2745.2	6893.7	9648.4	9963.3	8566.2
77.5°	188.3	200.9	257.9	420.9	637.6	936.7	2946.1	5026.7	5628.0	4678.6
80°	126.6	137.7	177.2	281.6	414.5	401.9	938.3	1862.3	2291.1	1607.5
82.5°	85.4	87.0	126.6	185.1	262.6	194.6	276.9	579.1	727.8	465.2
85°	49.0	47.5	93.4	107.6	117.1	80.7	83.9	174.0	227.8	196.2
87.5°	6.3	9.5	36.4	28.5	15.8	17.4	17.4	30.1	44.3	47.5
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°
2745.2	0°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2748.3	2.5°	2748.3	2746.7	2742.0	2737.2	2726.2	2719.8	2723.0	2719.8	2718.3	2719.8
2768.9	5°	2768.9	2764.1	2751.5	2735.7	2713.5	2686.6	2669.2	2643.9	2620.2	2605.9
2824.3	7.5°	2824.3	2819.5	2802.1	2757.8	2686.6	2574.3	2471.4	2381.2	2313.2	2273.7
2912.9	10°	2912.9	2905.0	2878.1	2780.0	2593.3	2348.0	2143.9	1974.6	1863.9	1811.6
3017.3	12.5°	3017.3	3007.8	2960.3	2759.4	2416.1	2033.2	1751.5	1563.2	1460.4	1414.5
3137.5	15°	3140.7	3128.1	3034.7	2661.3	2158.2	1685.1	1427.2	1286.3	1219.9	1178.8
3291.0	17.5°	3294.2	3272.0	3090.1	2514.2	1878.1	1419.3	1227.8	1121.8	1063.3	1023.7
3492.0	20°	3493.5	3457.2	3134.4	2338.5	1620.2	1251.5	1093.3	1004.7	960.4	925.6
3776.8	22.5°	3772.0	3719.8	3188.2	2148.7	1438.2	1136.0	993.6	928.8	892.4	852.8
4173.9	25°	4116.9	4055.2	3254.6	1973.0	1313.2	1036.4	920.9	867.1	824.3	778.5
4694.5	27.5°	4599.5	4488.8	3333.7	1829.1	1205.7	950.9	854.4	794.3	745.2	707.3
5284.6	30°	5137.5	4955.5	3403.4	1742.0	1107.6	871.8	767.4	707.3	661.4	634.5
5814.7	32.5°	5647.0	5400.1	3449.2	1704.1	1019.0	781.6	672.4	607.6	572.8	564.9
6333.6	35°	6128.0	5802.0	3444.5	1667.7	939.8	691.4	579.1	512.6	485.7	490.5
6892.2	37.5°	6681.7	6230.8	3411.3	1610.7	875.0	609.2	498.4	439.9	416.1	417.7
7570.9	40°	7325.7	6726.0	3390.7	1503.1	803.8	533.2	431.9	384.5	367.1	360.7
8286.1	42.5°	8012.4	7205.4	3393.9	1381.3	715.2	465.2	386.1	346.5	330.7	325.9
9082.0	45°	8702.2	7662.7	3398.6	1254.7	621.8	413.0	352.8	319.6	310.1	303.8
9888.9	47.5°	9350.9	8051.9	3310.0	1118.6	530.0	373.4	325.9	303.8	295.9	288.0
10699.0	50°	9955.3	8311.4	3096.4	960.4	457.3	341.8	305.4	289.5	281.6	273.7
11433.1	52.5°	10425.3	8352.6	2743.6	797.4	406.6	318.0	292.7	278.5	269.0	261.1
12026.5	55°	10634.1	8094.7	2242.0	645.5	367.1	297.5	280.1	265.8	254.7	246.8
12493.2	57.5°	10580.3	7552.0	1748.4	519.0	329.1	276.9	264.2	254.7	242.1	229.4
12871.4	60°	10316.1	6825.7	1318.0	431.9	294.3	254.7	246.8	238.9	221.5	202.5
13017.0	62.5°	9858.8	5912.8	939.8	357.6	256.3	229.4	226.3	219.9	194.6	159.8
12801.8	65°	9159.5	4803.6	632.9	297.5	219.9	200.9	202.5	191.4	158.2	118.7
12013.8	67.5°	8137.4	3512.5	405.0	243.7	183.5	167.7	169.3	163.0	134.5	101.3
10520.2	70°	6835.2	2325.9	264.2	185.1	147.1	129.7	139.2	140.8	113.9	82.3
8074.1	72.5°	5010.9	1373.4	185.1	137.7	107.6	90.2	113.9	117.1	91.8	61.7
4857.4	75°	2855.9	651.9	139.2	99.7	66.5	63.3	88.6	88.6	63.3	41.1
2102.8	77.5°	1199.3	272.1	98.1	64.9	38.0	36.4	60.1	55.4	31.6	19.0
512.6	80°	346.5	121.8	52.2	31.6	15.8	14.2	23.7	17.4	7.9	3.2
194.6	82.5°	136.1	53.8	20.6	12.7	6.3	6.3	3.2	0.0	0.0	0.0
110.8	85°	80.7	22.2	9.5	4.7	1.6	0.0	0.0	0.0	0.0	0.0
23.7	87.5°	20.6	4.7	3.2	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>
2745.2
2726.2
2609.1
2275.2
1806.9
1409.8
1180.3
1020.5
919.3
846.5
773.7
699.3
629.7
569.6
490.5
424.0
359.2
324.4
303.8
288.0
273.7
259.5
245.2
227.8
199.4
156.6
115.5
96.5
79.1
58.5
38.0
19.0
3.2
0.0
0.0
0.0
0.0

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