

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: P939726

Luminaire Tested: **GALN-SB2B-950-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939726  
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-SB2B-950-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

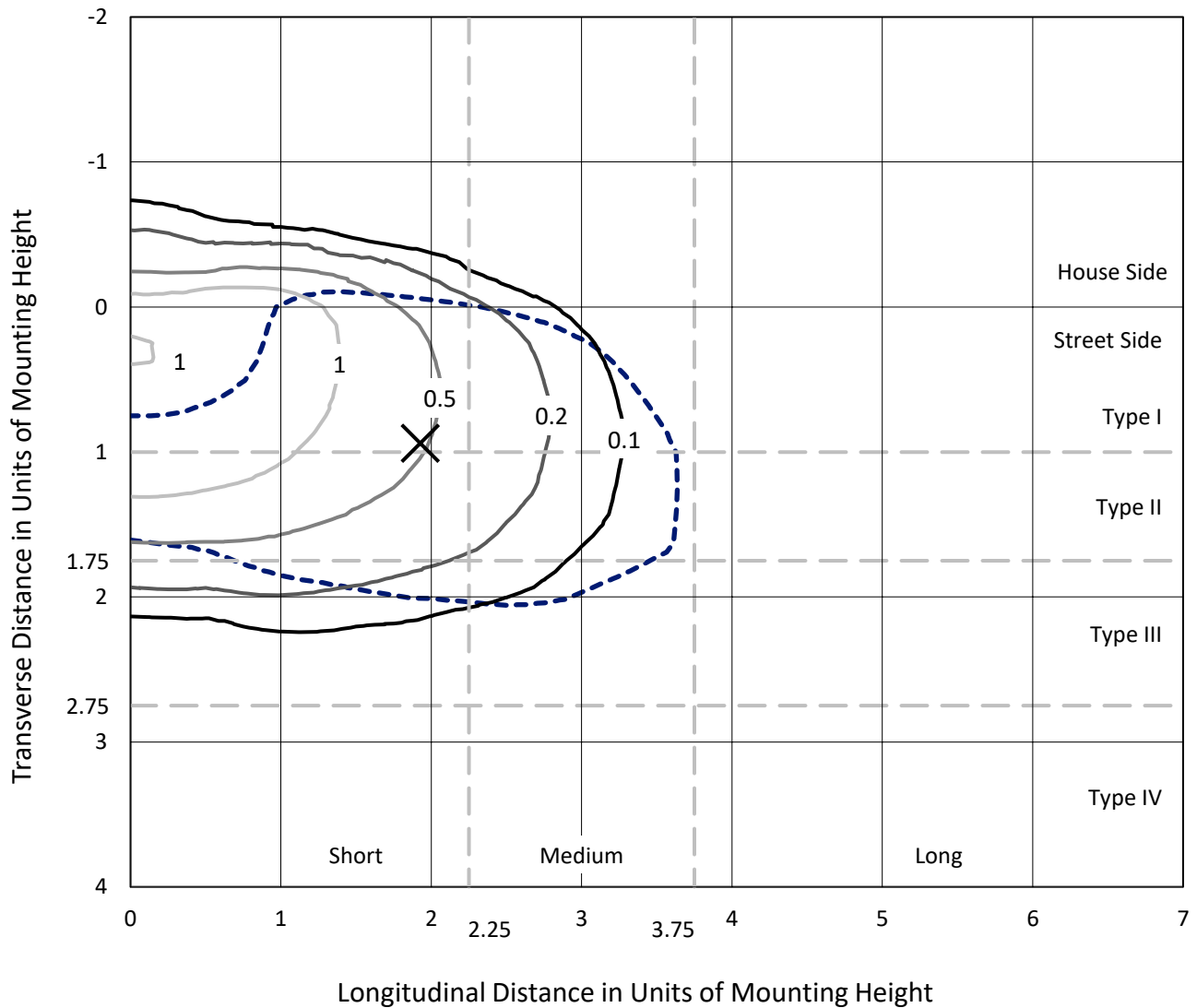
Lumens per Lamp: N/A  
Luminaire Lumens: 6144 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

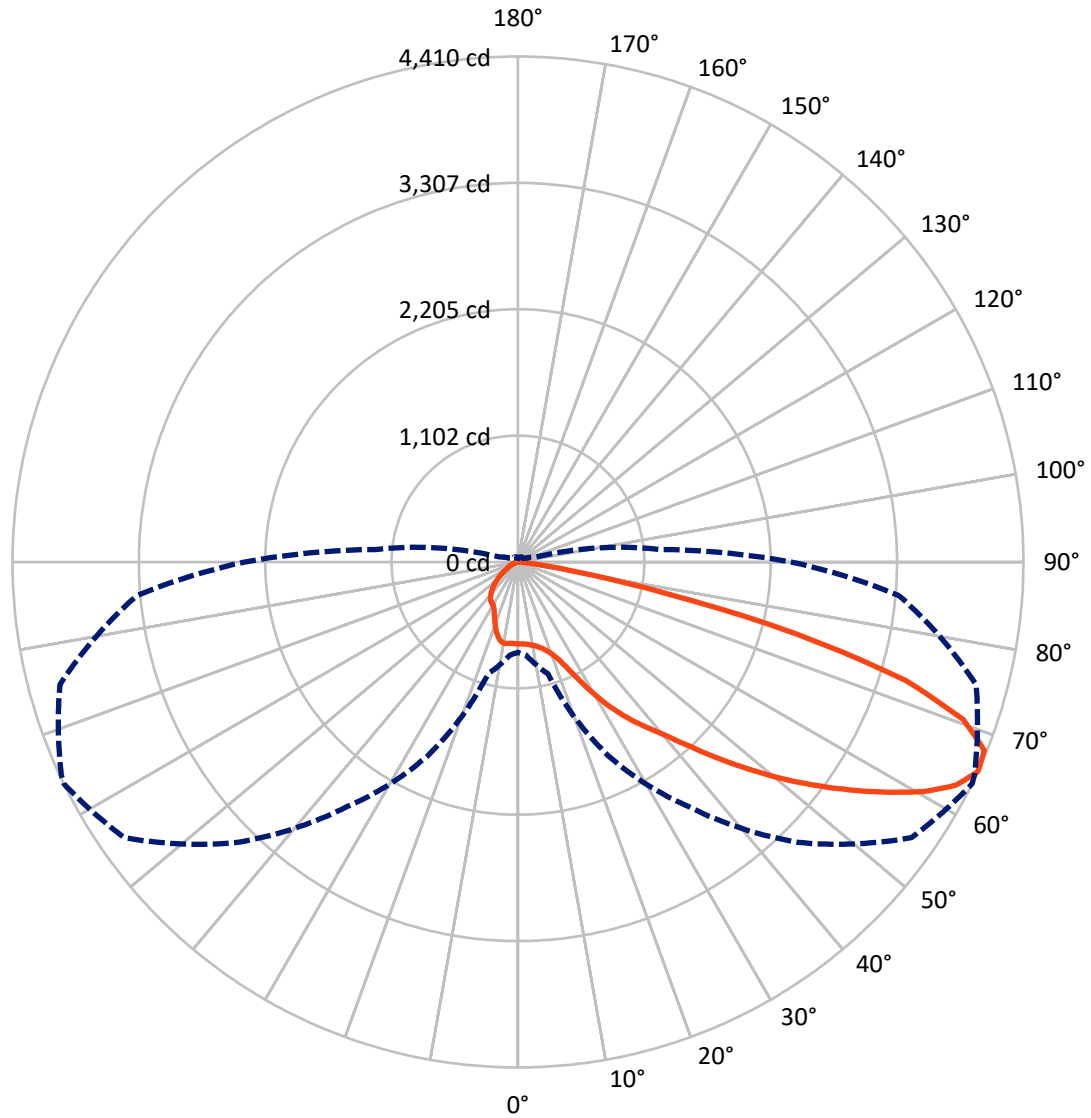
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	821.6	0.0	821.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	5322.4	0.0	5322.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	6144.0	0.0	6144.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	1.1
10°-20°	178.8	2.9
20°-30°	338.8	5.5
30°-40°	685.7	11.2
40°-50°	1168.1	19.0
50°-60°	1588.5	25.9
60°-70°	1491.6	24.3
70°-80°	597.6	9.7
80°-90°	29.0	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°	6144.0	100.0
0°-180°	6144.0	100.0

**Coefficient of Utilization**



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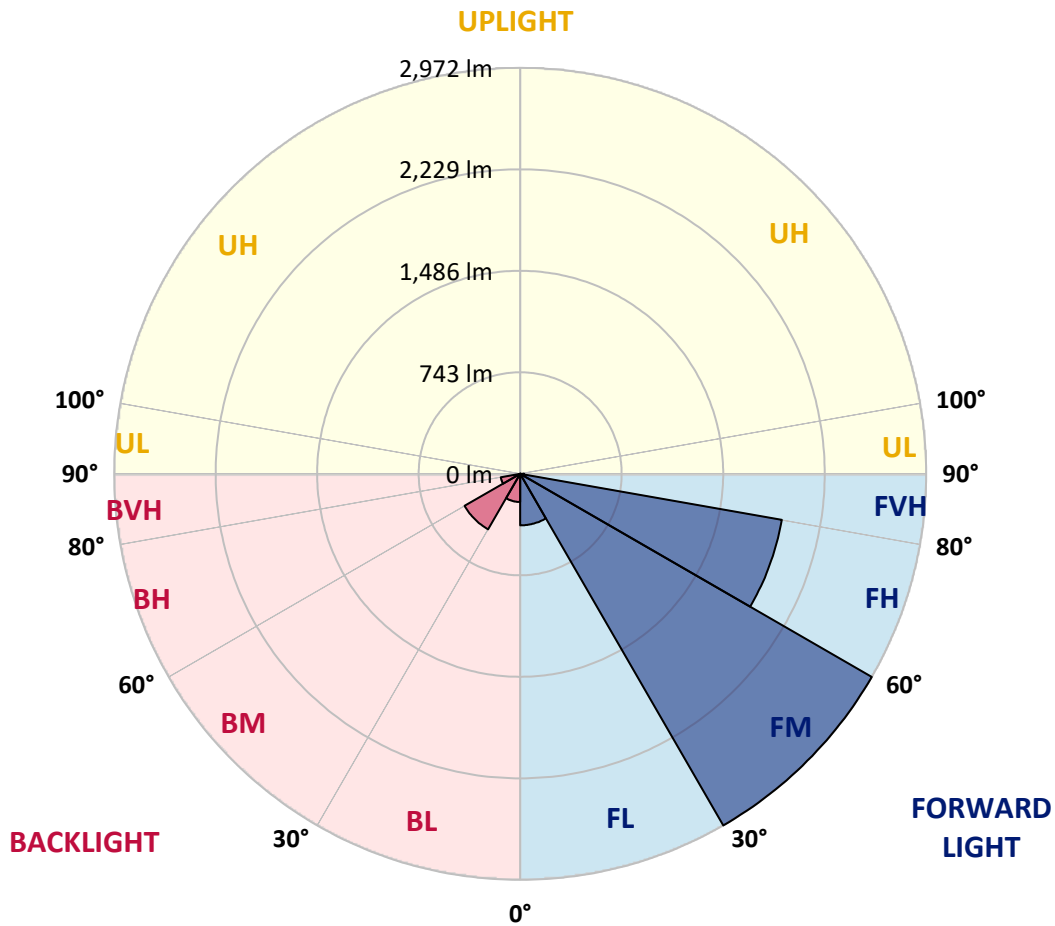
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.3	6.1			
FM (30°-60°)	2972.5	48.4			
FH (60°-80°)	1945.0	31.7			G2/5000
FVH (80°-90°)	27.5	0.4			G1/100
BL (0°-30°)	206.3	3.4	B1/500		
BM (30°-60°)	469.7	7.6	B1/1000		
BH (60°-80°)	144.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6
2.5°	712.1	717.1	715.8	714.6	714.2	715.0	715.4	715.0	715.0	715.0
5°	698.5	702.7	702.7	705.5	709.7	714.6	718.3	719.1	720.0	721.2
7.5°	672.6	675.9	678.4	687.8	698.1	711.3	722.4	728.2	729.0	733.6
10°	654.9	659.0	663.1	673.0	687.8	707.6	726.6	740.6	742.6	753.3
12.5°	654.1	658.2	663.5	674.2	691.5	712.6	735.6	755.8	759.5	775.2
15°	662.7	667.7	672.6	685.8	704.3	729.9	754.6	779.7	783.4	805.6
17.5°	680.4	687.0	690.7	703.9	723.7	752.1	784.6	813.5	816.8	842.7
20°	715.4	723.3	724.5	735.2	754.6	785.0	823.8	859.6	863.7	893.4
22.5°	787.9	799.0	789.2	794.5	811.8	842.3	884.3	929.6	935.4	969.2
25°	915.6	931.3	905.7	896.7	904.1	935.8	988.5	1045.8	1052.4	1079.5
27.5°	1166.4	1146.3	1107.5	1069.7	1047.4	1065.5	1124.8	1195.7	1203.9	1230.3
30°	1442.0	1424.3	1372.0	1287.9	1235.2	1232.3	1287.1	1366.2	1375.7	1400.8
32.5°	1717.9	1701.1	1644.2	1540.8	1449.4	1404.1	1442.0	1529.7	1534.7	1550.7
35°	1989.4	1972.1	1915.2	1809.4	1696.9	1594.0	1586.6	1685.4	1687.1	1703.9
37.5°	2262.5	2248.0	2187.5	2083.7	1972.9	1830.8	1762.0	1832.9	1834.9	1851.4
40°	2457.3	2463.5	2421.9	2341.5	2246.4	2091.1	1958.9	1989.8	1977.4	2005.0
42.5°	2624.5	2636.9	2600.6	2560.2	2505.1	2368.3	2202.7	2197.4	2177.6	2192.4
45°	2769.1	2779.4	2746.8	2737.4	2736.1	2640.1	2469.2	2437.1	2409.5	2406.6
47.5°	2822.2	2842.0	2856.0	2887.7	2949.5	2909.1	2744.8	2694.9	2664.0	2641.4
50°	2842.4	2863.4	2911.2	3003.4	3149.6	3166.9	3019.1	2963.1	2925.2	2884.0
52.5°	2815.2	2852.7	2916.9	3072.2	3284.3	3373.7	3282.3	3233.3	3190.0	3122.9
55°	2655.0	2692.5	2823.8	3071.4	3351.5	3518.7	3531.0	3509.2	3460.6	3354.8
57.5°	2317.2	2372.8	2580.8	2966.8	3350.2	3643.5	3774.9	3790.5	3736.2	3584.6
60°	1849.3	1924.7	2178.4	2734.9	3246.8	3711.0	3988.6	4066.9	4009.2	3811.1
62.5°	1290.4	1377.7	1617.9	2371.6	3010.4	3662.4	4144.7	4289.3	4245.7	4013.8
65°	787.1	815.1	1008.7	1866.2	2608.4	3459.0	4192.9	4409.6	4395.2	4137.7
67.5°	524.3	547.8	603.4	1279.7	2024.8	3052.4	4077.6	4388.6	4392.7	4117.6
70°	315.9	336.1	372.3	744.3	1312.2	2416.1	3720.5	4120.9	4144.7	3847.8
72.5°	130.2	143.7	176.7	337.3	679.6	1533.4	2962.6	3538.0	3593.6	3235.3
75°	73.7	80.7	103.8	169.3	294.9	714.6	1794.6	2511.6	2593.6	2229.9
77.5°	49.0	52.3	67.1	109.6	166.0	243.8	766.9	1308.5	1465.1	1217.9
80°	33.0	35.8	46.1	73.3	107.9	104.6	244.2	484.8	596.4	418.5
82.5°	22.2	22.7	33.0	48.2	68.4	50.7	72.1	150.7	189.5	121.1
85°	12.8	12.4	24.3	28.0	30.5	21.0	21.8	45.3	59.3	51.1
87.5°	1.6	2.5	9.5	7.4	4.1	4.5	4.5	7.8	11.5	12.4
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°
714.6	0°	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6	714.6
715.4	2.5°	715.4	715.0	713.8	712.6	709.7	708.0	708.8	708.0	707.6	708.0
720.8	5°	720.8	719.6	716.3	712.1	706.4	699.4	694.8	688.3	682.1	678.4
735.2	7.5°	735.2	734.0	729.4	717.9	699.4	670.1	643.4	619.9	602.2	591.9
758.3	10°	758.3	756.2	749.2	723.7	675.1	611.2	558.1	514.0	485.2	471.6
785.5	12.5°	785.5	783.0	770.6	718.3	628.9	529.3	456.0	406.9	380.2	368.2
816.8	15°	817.6	814.3	790.0	692.8	561.8	438.7	371.5	334.9	317.6	306.9
856.7	17.5°	857.5	851.8	804.4	654.5	488.9	369.5	319.6	292.0	276.8	266.5
909.0	20°	909.4	900.0	815.9	608.8	421.8	325.8	284.6	261.5	250.0	240.9
983.2	22.5°	981.9	968.3	829.9	559.3	374.4	295.7	258.7	241.8	232.3	222.0
1086.5	25°	1071.7	1055.6	847.2	513.6	341.9	269.8	239.7	225.7	214.6	202.6
1222.0	27.5°	1197.3	1168.5	867.8	476.1	313.9	247.5	222.4	206.8	194.0	184.1
1375.7	30°	1337.4	1290.0	886.0	453.5	288.3	226.9	199.8	184.1	172.2	165.2
1513.7	32.5°	1470.0	1405.7	897.9	443.6	265.3	203.5	175.0	158.2	149.1	147.0
1648.8	35°	1595.2	1510.4	896.7	434.1	244.7	180.0	150.7	133.4	126.4	127.7
1794.1	37.5°	1739.4	1622.0	888.0	419.3	227.8	158.6	129.7	114.5	108.3	108.7
1970.8	40°	1907.0	1750.9	882.7	391.3	209.2	138.8	112.4	100.1	95.6	93.9
2157.0	42.5°	2085.8	1875.7	883.5	359.6	186.2	121.1	100.5	90.2	86.1	84.8
2364.2	45°	2265.3	1994.7	884.7	326.6	161.9	107.5	91.8	83.2	80.7	79.1
2574.2	47.5°	2434.2	2096.1	861.7	291.2	138.0	97.2	84.8	79.1	77.0	75.0
2785.1	50°	2591.5	2163.6	806.0	250.0	119.0	89.0	79.5	75.4	73.3	71.3
2976.2	52.5°	2713.9	2174.3	714.2	207.6	105.9	82.8	76.2	72.5	70.0	68.0
3130.7	55°	2768.2	2107.2	583.6	168.0	95.6	77.4	72.9	69.2	66.3	64.3
3252.2	57.5°	2754.2	1965.9	455.1	135.1	85.7	72.1	68.8	66.3	63.0	59.7
3350.6	60°	2685.5	1776.8	343.1	112.4	76.6	66.3	64.3	62.2	57.7	52.7
3388.5	62.5°	2566.4	1539.2	244.7	93.1	66.7	59.7	58.9	57.3	50.7	41.6
3332.5	65°	2384.4	1250.5	164.8	77.4	57.3	52.3	52.7	49.8	41.2	30.9
3127.4	67.5°	2118.3	914.4	105.4	63.4	47.8	43.7	44.1	42.4	35.0	26.4
2738.6	70°	1779.3	605.5	68.8	48.2	38.3	33.8	36.2	36.7	29.7	21.4
2101.8	72.5°	1304.4	357.5	48.2	35.8	28.0	23.5	29.7	30.5	23.9	16.1
1264.5	75°	743.4	169.7	36.2	25.9	17.3	16.5	23.1	23.1	16.5	10.7
547.4	77.5°	312.2	70.8	25.5	16.9	9.9	9.5	15.7	14.4	8.2	4.9
133.4	80°	90.2	31.7	13.6	8.2	4.1	3.7	6.2	4.5	2.1	0.8
50.7	82.5°	35.4	14.0	5.4	3.3	1.6	1.6	0.8	0.0	0.0	0.0
28.8	85°	21.0	5.8	2.5	1.2	0.4	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	5.4	1.2	0.8	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>
714.6
709.7
679.2
592.3
470.4
367.0
307.3
265.7
239.3
220.4
201.4
182.1
163.9
148.3
127.7
110.4
93.5
84.4
79.1
75.0
71.3
67.5
63.8
59.3
51.9
40.8
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