

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: P939716

Luminaire Tested: **GALN-SB2B-940-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939716  
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-940-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

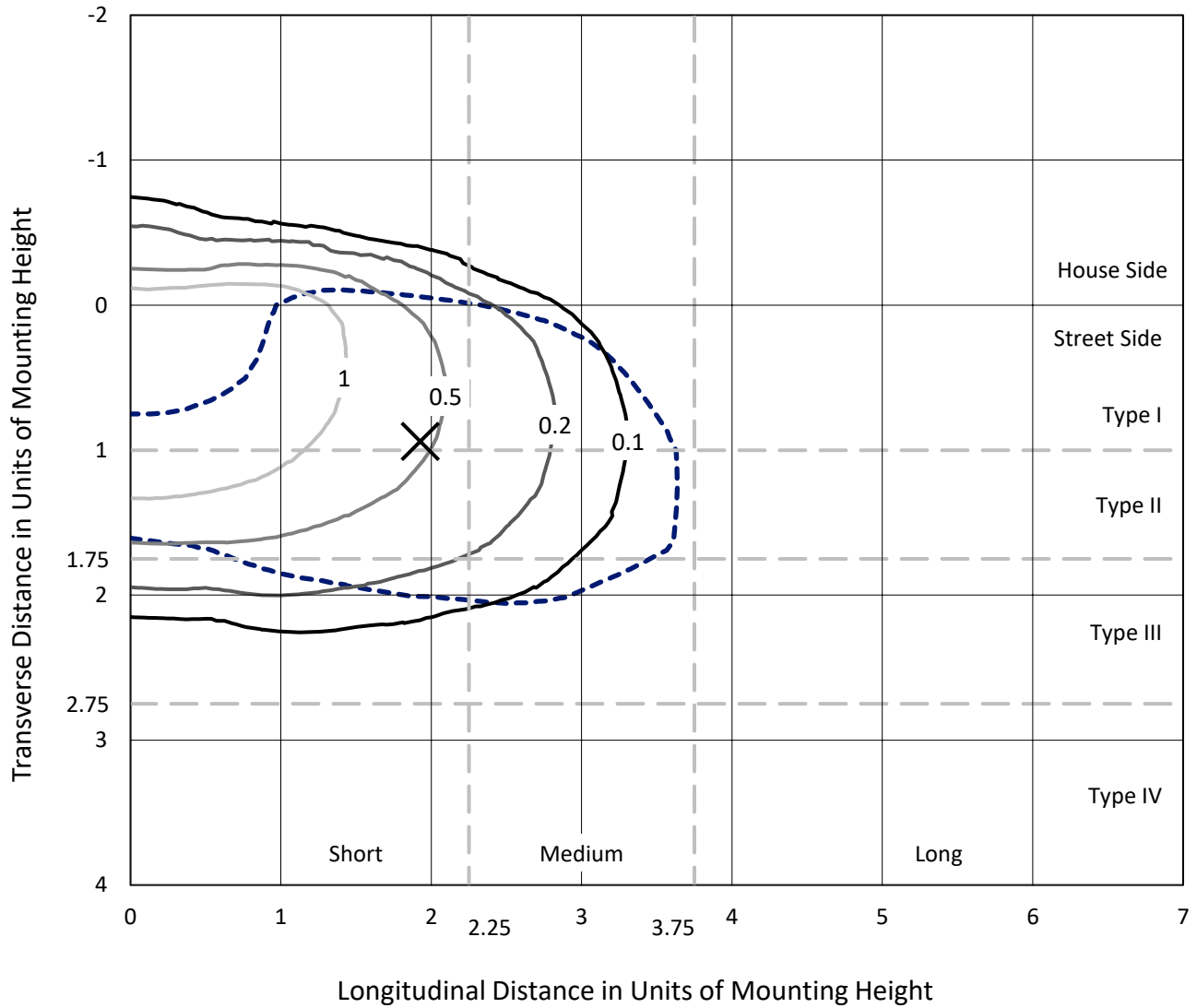
Lumens per Lamp: N/A  
Luminaire Lumens: 6400 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

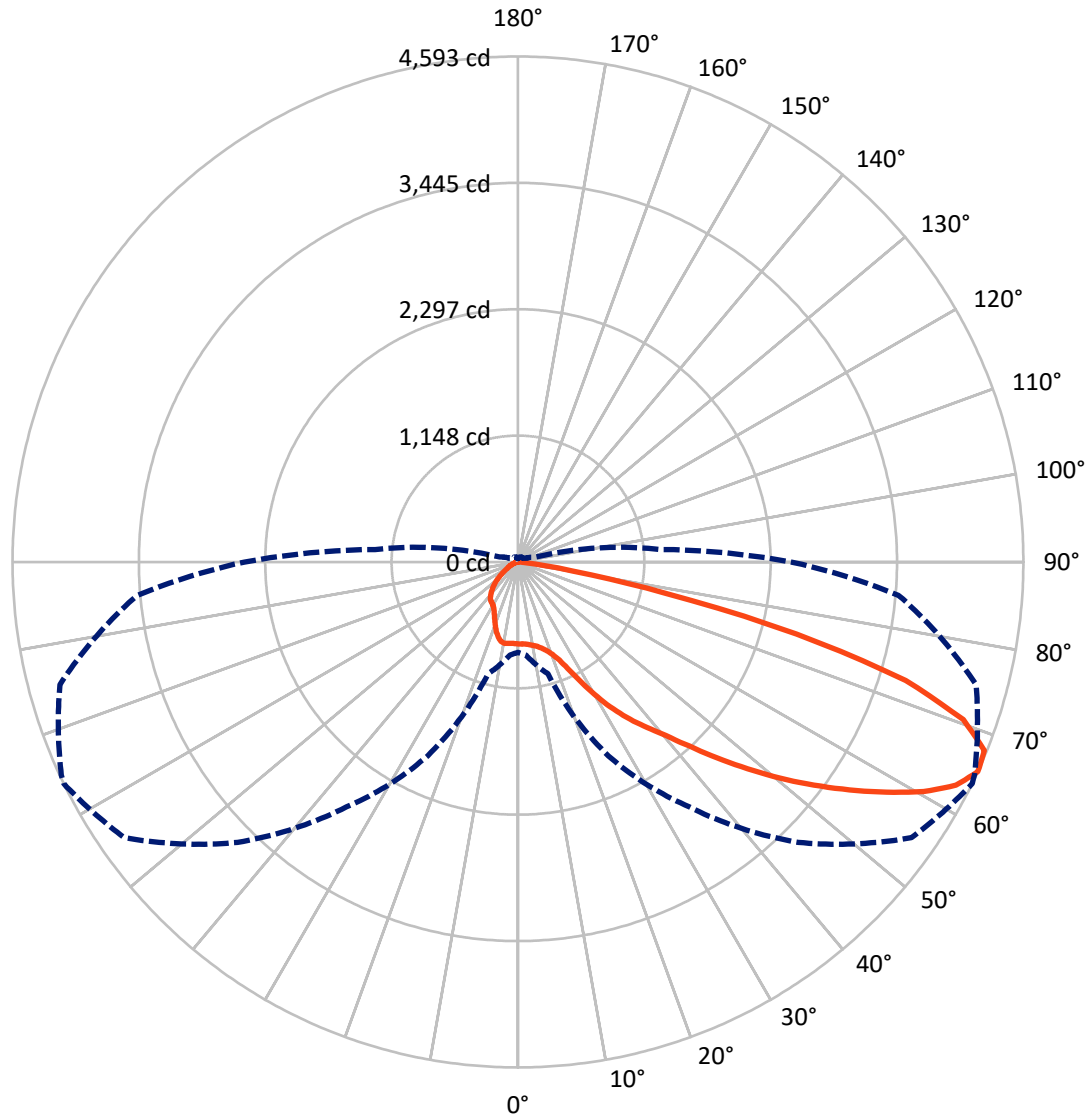
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	855.9	0.0	855.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	5544.1	0.0	5544.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	6400.0	0.0	6400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	1.1
10°-20°	186.3	2.9
20°-30°	353.0	5.5
30°-40°	714.2	11.2
40°-50°	1216.7	19.0
50°-60°	1654.6	25.9
60°-70°	1553.8	24.3
70°-80°	622.5	9.7
80°-90°	30.2	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°	6400.0	100.0
0°-180°	6400.0	100.0

**Coefficient of Utilization**



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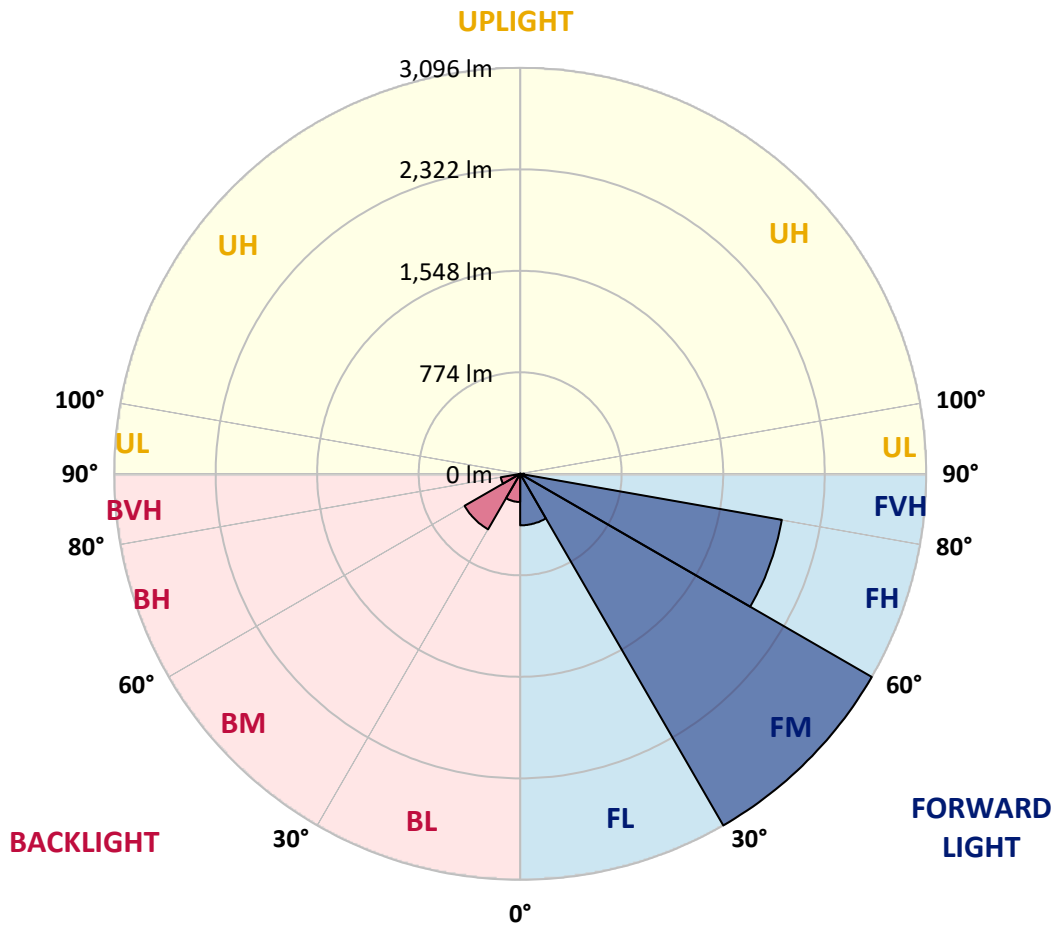
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.0	6.1			
FM (30°-60°)	3096.3	48.4			
FH (60°-80°)	2026.1	31.7			G2/5000
FVH (80°-90°)	28.7	0.4			G1/100
BL (0°-30°)	214.9	3.4	B1/500		
BM (30°-60°)	489.3	7.6	B1/1000		
BH (60°-80°)	150.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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°	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4
2.5°	741.8	747.0	745.7	744.4	744.0	744.8	745.2	744.8	744.8	744.8
5°	727.7	731.9	731.9	734.9	739.2	744.4	748.2	749.1	750.0	751.3
7.5°	700.6	704.1	706.6	716.5	727.2	741.0	752.5	758.5	759.4	764.1
10°	682.2	686.5	690.8	701.1	716.5	737.1	756.8	771.4	773.6	784.7
12.5°	681.3	685.6	691.2	702.3	720.4	742.2	766.3	787.3	791.2	807.5
15°	690.3	695.5	700.6	714.4	733.7	760.3	786.0	812.2	816.0	839.2
17.5°	708.8	715.6	719.5	733.2	753.8	783.4	817.3	847.4	850.8	877.8
20°	745.2	753.4	754.7	765.8	786.0	817.8	858.1	895.4	899.7	930.6
22.5°	820.8	832.3	822.0	827.6	845.6	877.4	921.2	968.3	974.4	1009.5
25°	953.8	970.1	943.5	934.0	941.7	974.8	1029.7	1089.3	1096.2	1124.5
27.5°	1215.0	1194.0	1153.7	1114.2	1091.1	1109.9	1171.7	1245.5	1254.1	1281.5
30°	1502.1	1483.6	1429.1	1341.6	1286.7	1283.7	1340.8	1423.1	1433.0	1459.2
32.5°	1789.5	1771.9	1712.7	1605.0	1509.8	1462.6	1502.1	1593.5	1598.6	1615.3
35°	2072.3	2054.2	1995.0	1884.8	1767.6	1660.4	1652.7	1755.6	1757.4	1774.9
37.5°	2356.7	2341.7	2278.6	2170.5	2055.1	1907.1	1835.4	1909.2	1911.4	1928.5
40°	2559.7	2566.1	2522.8	2439.1	2340.0	2178.2	2040.5	2072.7	2059.8	2088.6
42.5°	2733.9	2746.7	2709.0	2666.9	2609.4	2467.0	2294.5	2288.9	2268.3	2283.8
45°	2884.4	2895.2	2861.3	2851.4	2850.1	2750.2	2572.1	2538.6	2509.9	2506.9
47.5°	2939.8	2960.4	2975.0	3008.0	3072.4	3030.3	2859.1	2807.2	2775.0	2751.4
50°	2960.8	2982.7	3032.5	3128.6	3280.9	3298.9	3144.9	3086.5	3047.1	3004.1
52.5°	2932.5	2971.5	3038.5	3200.2	3421.2	3514.3	3419.0	3368.0	3322.9	3253.0
55°	2765.6	2804.6	2941.5	3199.4	3491.1	3665.3	3678.2	3655.4	3604.8	3494.5
57.5°	2413.8	2471.7	2688.4	3090.4	3489.8	3795.3	3932.2	3948.5	3891.8	3733.9
60°	1926.4	2004.9	2269.2	2848.8	3382.1	3865.7	4154.8	4236.4	4176.3	3969.9
62.5°	1344.2	1435.1	1685.3	2470.4	3135.9	3815.0	4317.4	4468.0	4422.6	4181.0
65°	819.9	849.1	1050.7	1944.0	2717.1	3603.1	4367.6	4593.3	4578.3	4310.1
67.5°	546.2	570.6	628.5	1333.0	2109.2	3179.6	4247.5	4571.4	4575.7	4289.1
70°	329.1	350.1	387.9	775.3	1366.9	2516.8	3875.5	4292.6	4317.4	4008.1
72.5°	135.6	149.7	184.1	351.4	707.9	1597.3	3086.1	3685.5	3743.4	3370.1
75°	76.8	84.1	108.1	176.3	307.2	744.4	1869.3	2616.3	2701.7	2322.8
77.5°	51.1	54.5	69.9	114.1	172.9	254.0	798.9	1363.1	1526.1	1268.7
80°	34.3	37.3	48.1	76.4	112.4	109.0	254.4	505.0	621.3	435.9
82.5°	23.2	23.6	34.3	50.2	71.2	52.8	75.1	157.0	197.4	126.1
85°	13.3	12.9	25.3	29.2	31.7	21.9	22.7	47.2	61.8	53.2
87.5°	1.7	2.6	9.9	7.7	4.3	4.7	4.7	8.2	12.0	12.9
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°
744.4	0°	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4	744.4
745.2	2.5°	745.2	744.8	743.5	742.2	739.2	737.5	738.4	737.5	737.1	737.5
750.8	5°	750.8	749.5	746.1	741.8	735.8	728.5	723.8	716.9	710.5	706.6
765.8	7.5°	765.8	764.6	759.8	747.8	728.5	698.1	670.2	645.7	627.3	616.5
789.9	10°	789.9	787.7	780.4	753.8	703.2	636.7	581.4	535.4	505.4	491.3
818.2	12.5°	818.2	815.6	802.7	748.2	655.1	551.3	474.9	423.9	396.0	383.6
850.8	15°	851.6	848.2	822.9	721.6	585.2	456.9	387.0	348.8	330.8	319.6
892.4	17.5°	893.3	887.3	837.9	681.7	509.3	384.8	332.9	304.2	288.3	277.6
946.9	20°	947.3	937.5	849.9	634.1	439.3	339.4	296.5	272.4	260.4	251.0
1024.1	22.5°	1022.8	1008.7	864.5	582.6	390.0	308.1	269.4	251.8	242.0	231.3
1131.8	25°	1116.4	1099.6	882.5	535.0	356.1	281.0	249.7	235.1	223.5	211.1
1273.0	27.5°	1247.2	1217.2	904.0	496.0	326.9	257.9	231.7	215.4	202.1	191.8
1433.0	30°	1393.1	1343.8	922.9	472.4	300.3	236.4	208.1	191.8	179.3	172.0
1576.7	32.5°	1531.2	1464.3	935.3	462.1	276.3	211.9	182.3	164.8	155.3	153.2
1717.5	35°	1661.7	1573.3	934.0	452.2	254.9	187.5	157.0	139.0	131.7	133.0
1868.9	37.5°	1811.8	1689.6	925.0	436.8	237.3	165.2	135.1	119.3	112.8	113.3
2053.0	40°	1986.5	1823.9	919.4	407.6	218.0	144.6	117.1	104.3	99.5	97.8
2246.9	42.5°	2172.7	1953.9	920.3	374.6	193.9	126.1	104.7	94.0	89.7	88.4
2462.7	45°	2359.7	2077.8	921.6	340.2	168.6	112.0	95.7	86.7	84.1	82.4
2681.5	47.5°	2535.6	2183.4	897.6	303.3	143.7	101.3	88.4	82.4	80.2	78.1
2901.2	50°	2699.5	2253.8	839.6	260.4	124.0	92.7	82.8	78.5	76.4	74.2
3100.3	52.5°	2827.0	2264.9	744.0	216.2	110.3	86.2	79.4	75.5	72.9	70.8
3261.1	55°	2883.6	2195.0	608.0	175.0	99.5	80.7	75.9	72.1	69.1	66.9
3387.7	57.5°	2869.0	2047.8	474.1	140.7	89.2	75.1	71.6	69.1	65.6	62.2
3490.3	60°	2797.3	1850.9	357.4	117.1	79.8	69.1	66.9	64.8	60.1	54.9
3529.7	62.5°	2673.4	1603.3	254.9	97.0	69.5	62.2	61.4	59.6	52.8	43.3
3471.4	65°	2483.7	1302.6	171.6	80.7	59.6	54.5	54.9	51.9	42.9	32.2
3257.7	67.5°	2206.6	952.5	109.8	66.1	49.8	45.5	45.9	44.2	36.5	27.5
2852.7	70°	1853.5	630.7	71.6	50.2	39.9	35.2	37.8	38.2	30.9	22.3
2189.4	72.5°	1358.8	372.4	50.2	37.3	29.2	24.5	30.9	31.7	24.9	16.7
1317.2	75°	774.4	176.8	37.8	27.0	18.0	17.2	24.0	24.0	17.2	11.2
570.2	77.5°	325.2	73.8	26.6	17.6	10.3	9.9	16.3	15.0	8.6	5.1
139.0	80°	94.0	33.0	14.2	8.6	4.3	3.9	6.4	4.7	2.1	0.9
52.8	82.5°	36.9	14.6	5.6	3.4	1.7	1.7	0.9	0.0	0.0	0.0
30.0	85°	21.9	6.0	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0
6.4	87.5°	5.6	1.3	0.9	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

<u>180°</u>
744.4
739.2
707.5
617.0
490.0
382.3
320.1
276.7
249.3
229.5
209.8
189.6
170.8
154.5
133.0
115.0
97.4
88.0
82.4
78.1
74.2
70.4
66.5
61.8
54.1
42.5
31.3
26.2
21.5
15.9
10.3
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