

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: P946460

Luminaire Tested: **GALN-SB2A-835-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2A-835-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

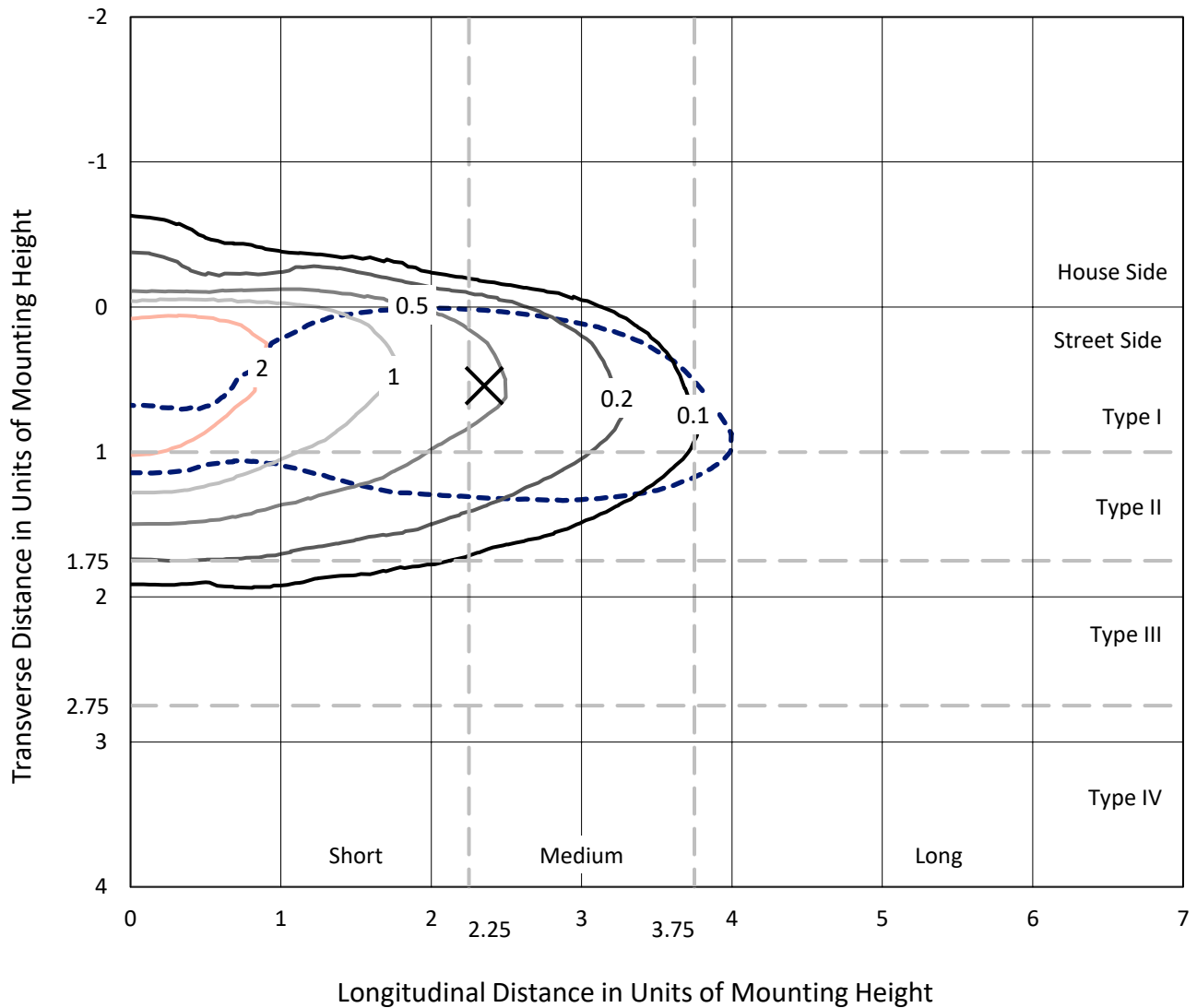
Lumens per Lamp: N/A  
Luminaire Lumens: 7045 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

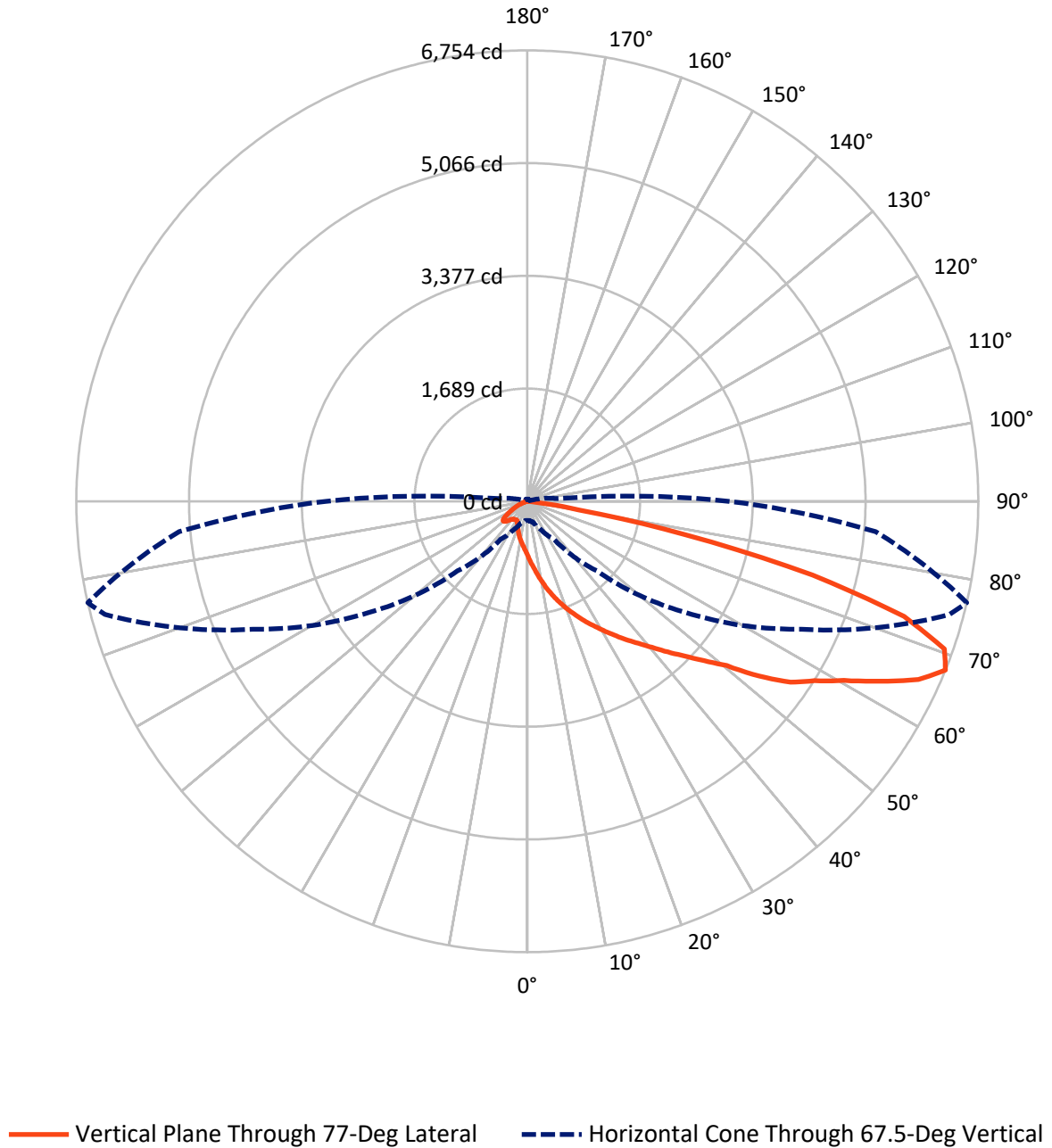
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	518.3	0.0	518.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	6526.7	0.0	6526.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	7045.0	0.0	7045.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.9	1.2
10°-20°	290.4	4.1
20°-30°	560.3	8.0
30°-40°	972.8	13.8
40°-50°	1412.4	20.0
50°-60°	1622.0	23.0
60°-70°	1408.2	20.0
70°-80°	663.3	9.4
80°-90°	32.8	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°	7045.0	100.0
0°-180°	7045.0	100.0

**Coefficient of Utilization**



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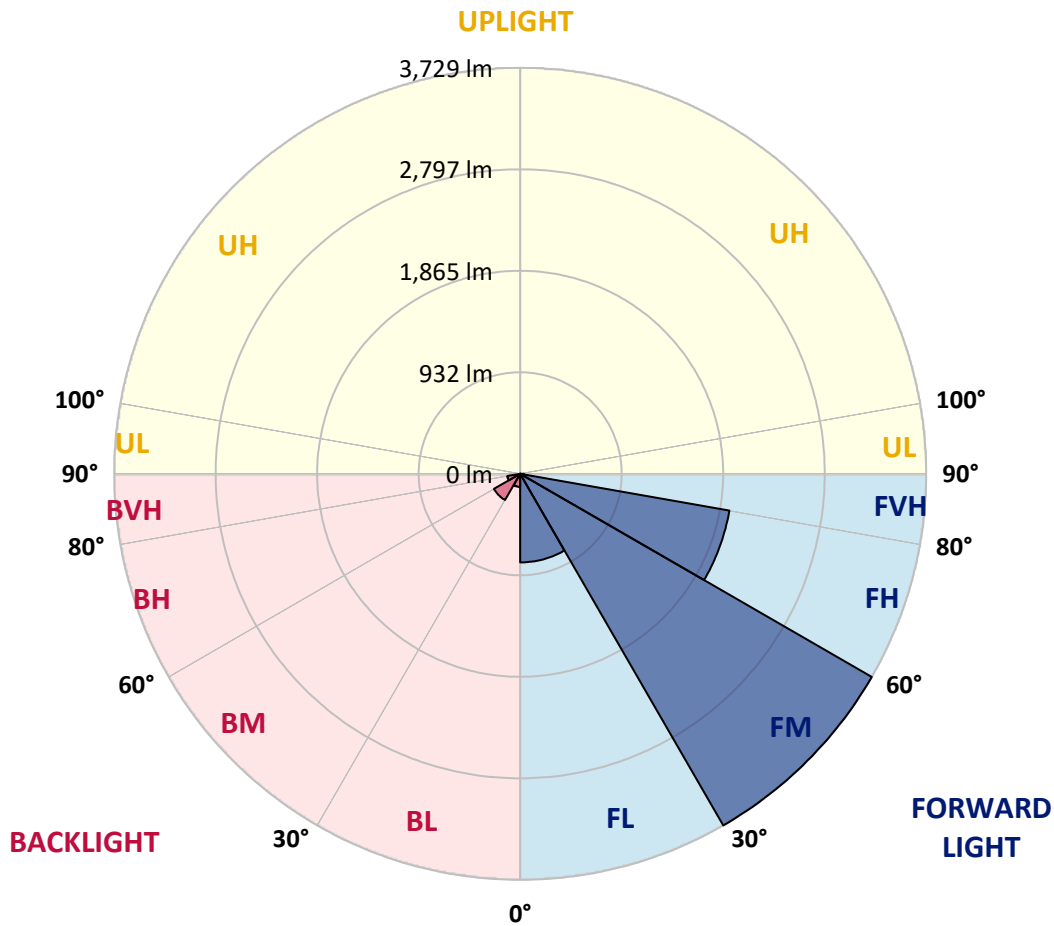
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.6	11.5			
FM (30°-60°)	3729.4	52.9			
FH (60°-80°)	1951.4	27.7			G2/5000
FVH (80°-90°)	32.2	0.5			G1/100
BL (0°-30°)	120.0	1.7	B1/500		
BM (30°-60°)	277.7	3.9	B1/1000		
BH (60°-80°)	120.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.6	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4
2.5°	1124.7	1131.7	1121.7	1102.4	1073.6	1054.8	1008.8	965.5	917.4	902.1
5°	1371.0	1377.2	1365.8	1344.8	1306.3	1269.6	1209.2	1118.6	1024.6	994.4
7.5°	1553.5	1557.0	1552.6	1533.4	1496.6	1455.0	1387.7	1280.5	1140.9	1107.7
10°	1684.7	1696.1	1694.8	1687.3	1662.8	1629.2	1557.4	1435.4	1271.3	1228.4
12.5°	1771.8	1784.5	1791.9	1808.5	1807.2	1785.8	1722.8	1593.7	1401.2	1350.9
15°	1797.1	1810.7	1839.1	1877.6	1911.8	1922.7	1878.5	1749.0	1544.3	1480.0
17.5°	1782.7	1803.7	1837.8	1898.6	1973.5	2022.9	2018.1	1899.1	1674.2	1600.7
20°	1814.6	1834.8	1861.5	1912.6	1999.7	2089.4	2125.3	2042.6	1803.3	1726.3
22.5°	1991.4	1987.9	1990.5	1998.8	2050.9	2139.7	2213.6	2172.9	1931.0	1852.3
25°	2271.4	2255.6	2228.9	2183.9	2170.8	2213.6	2290.6	2288.4	2065.8	1981.3
27.5°	2592.5	2589.9	2527.3	2418.8	2357.6	2340.9	2377.7	2400.9	2199.2	2109.1
30°	2900.0	2907.0	2822.6	2701.8	2589.4	2524.2	2491.0	2507.6	2334.8	2246.9
32.5°	3167.8	3175.2	3083.3	2942.0	2802.9	2724.2	2654.2	2613.0	2482.7	2386.9
35°	3393.9	3401.4	3295.9	3139.8	2991.5	2920.1	2841.0	2728.5	2631.4	2542.2
37.5°	3596.0	3593.9	3452.6	3295.1	3149.4	3093.0	3051.4	2870.7	2784.5	2698.3
40°	3715.5	3724.7	3603.9	3430.2	3288.9	3247.8	3245.2	3047.0	2961.3	2877.7
42.5°	3750.5	3766.7	3679.2	3536.6	3408.4	3363.7	3432.4	3237.8	3166.9	3085.5
45°	3687.5	3703.2	3663.4	3564.6	3489.7	3460.9	3593.4	3435.5	3386.5	3306.0
47.5°	3503.7	3523.4	3533.1	3512.1	3511.2	3540.5	3737.8	3643.7	3647.2	3565.0
50°	3148.1	3181.3	3269.7	3344.1	3459.1	3603.5	3878.2	3869.5	3941.2	3870.3
52.5°	2501.5	2548.7	2853.2	3056.6	3315.2	3591.7	4032.6	4231.7	4457.0	4353.3
55°	2010.2	2010.2	2257.8	2638.4	3034.3	3513.8	4100.0	4467.1	4808.3	4783.8
57.5°	1638.8	1658.5	1816.4	2152.8	2627.9	3328.3	4141.6	4614.9	5091.3	5073.4
60°	1011.4	1053.9	1352.2	1684.3	2165.5	2998.0	4115.3	4764.5	5434.8	5449.2
62.5°	569.6	585.3	718.3	1211.8	1683.8	2554.0	3914.5	4848.1	5874.0	5935.2
65°	393.3	401.2	452.3	754.2	1167.2	2033.4	3522.1	4796.0	6314.1	6437.9
67.5°	285.7	289.6	321.5	460.7	692.5	1474.3	2907.0	4533.6	6547.3	6754.2
70°	219.6	222.2	245.4	302.7	409.0	909.9	2111.3	4011.7	6378.4	6625.6
72.5°	178.5	181.1	199.1	224.0	271.2	538.1	1279.6	3257.9	5632.9	5899.8
75°	150.5	154.0	170.2	186.4	212.6	345.6	600.2	2268.7	4236.1	4411.1
77.5°	83.6	77.0	138.2	154.4	179.4	218.7	280.9	1335.2	2372.4	2421.0
80°	52.1	53.8	109.8	124.2	137.8	110.2	128.6	514.0	822.5	781.3
82.5°	3.1	7.0	84.4	89.7	94.5	47.2	48.6	174.6	198.2	182.0
85°	0.0	0.0	38.5	31.1	32.8	13.6	14.0	40.7	26.7	28.9
87.5°	0.0	0.0	0.0	0.9	0.0	1.3	2.6	3.5	1.3	1.7
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°
812.4	0°	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4
854.0	2.5°	823.3	792.7	730.6	669.8	620.3	574.4	541.6	510.5	494.8	493.9
909.1	5°	848.3	784.0	659.7	549.9	461.5	390.7	344.7	311.9	295.3	289.6
976.9	7.5°	883.3	786.6	597.6	444.9	340.8	280.0	253.7	243.2	239.7	235.8
1053.4	10°	927.4	792.7	542.0	358.3	268.6	238.0	227.5	223.1	220.5	217.9
1139.6	12.5°	976.9	798.4	486.9	297.5	236.2	220.5	213.1	207.8	204.3	201.2
1228.0	15°	1025.0	801.9	429.6	255.0	219.6	206.9	199.1	193.4	188.6	185.1
1314.6	17.5°	1072.7	806.7	375.8	229.7	206.1	193.4	185.5	178.5	174.6	170.6
1405.6	20°	1125.6	805.8	325.0	211.7	192.5	179.8	171.5	164.9	161.0	156.6
1501.9	22.5°	1174.6	801.5	280.4	196.4	178.5	166.2	157.1	150.5	146.6	143.1
1600.3	25°	1231.1	798.0	243.2	182.4	165.4	153.1	143.1	136.9	132.6	129.5
1699.2	27.5°	1285.3	792.7	216.1	169.7	152.7	140.9	131.2	124.2	120.3	118.1
1801.1	30°	1338.7	791.4	206.1	157.5	141.3	129.5	119.9	113.3	110.2	109.4
1913.1	32.5°	1403.0	794.9	210.4	153.1	130.8	119.0	109.8	105.0	101.9	101.9
2037.8	35°	1471.7	794.0	217.0	157.1	123.8	108.5	101.5	98.4	95.4	95.4
2176.0	37.5°	1557.9	795.3	222.2	163.6	121.2	99.7	95.8	91.9	90.1	90.1
2327.4	40°	1686.5	838.6	219.6	169.3	120.3	93.6	85.7	84.4	83.1	83.1
2498.4	42.5°	1844.0	932.7	223.1	169.7	119.9	89.2	78.7	81.4	78.3	77.9
2691.3	45°	2016.3	1035.5	245.4	160.6	119.4	87.1	75.2	78.3	73.5	73.5
2914.9	47.5°	2187.4	1137.4	268.2	147.4	118.1	86.6	72.2	70.4	69.1	69.6
3206.3	50°	2423.2	1220.6	276.9	129.5	115.1	85.7	66.5	66.9	66.1	66.9
3617.0	52.5°	2680.0	1238.1	266.4	109.4	106.3	83.1	62.6	64.3	63.9	64.7
3906.2	55°	2840.1	1219.2	220.1	91.0	92.7	72.6	58.6	62.1	62.1	62.1
4188.8	57.5°	3005.5	1139.2	156.2	73.9	77.0	59.5	55.1	59.9	59.5	59.1
4529.2	60°	3124.5	1009.7	102.8	60.8	61.2	49.0	51.2	56.4	56.0	53.8
4880.0	62.5°	3213.3	866.6	66.1	51.6	46.8	44.2	46.8	51.2	49.4	44.6
5177.5	65°	3203.2	668.5	50.7	44.2	38.5	38.5	40.7	44.6	39.4	31.5
5234.4	67.5°	3016.4	452.3	42.0	37.2	32.4	31.9	33.7	37.2	33.7	26.7
4943.0	70°	2682.6	295.7	33.7	28.9	25.8	23.6	27.1	31.9	28.4	21.4
4208.1	72.5°	2177.3	180.2	25.4	21.0	18.8	15.3	21.4	26.2	22.7	15.7
2926.3	75°	1408.7	91.9	17.5	13.6	10.1	9.2	15.7	19.7	15.7	9.6
1298.4	77.5°	539.0	38.5	9.6	6.1	5.2	4.4	8.7	11.8	6.6	2.2
251.5	80°	103.7	16.2	4.8	3.1	2.6	1.7	1.3	0.9	0.0	0.0
44.6	82.5°	17.9	5.2	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
8.7	85°	6.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.1	87.5°	2.2	0.0	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

<u>180°</u>
812.4
493.0
288.7
234.9
217.0
200.4
184.6
170.2
156.2
142.6
129.1
118.1
108.9
101.9
95.4
90.1
83.1
77.4
73.5
69.6
66.9
64.7
62.1
59.1
53.8
43.7
30.6
25.8
20.6
14.9
8.3
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