

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: P946355

Luminaire Tested: **GALN-SB2A-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946355
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-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 8036 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

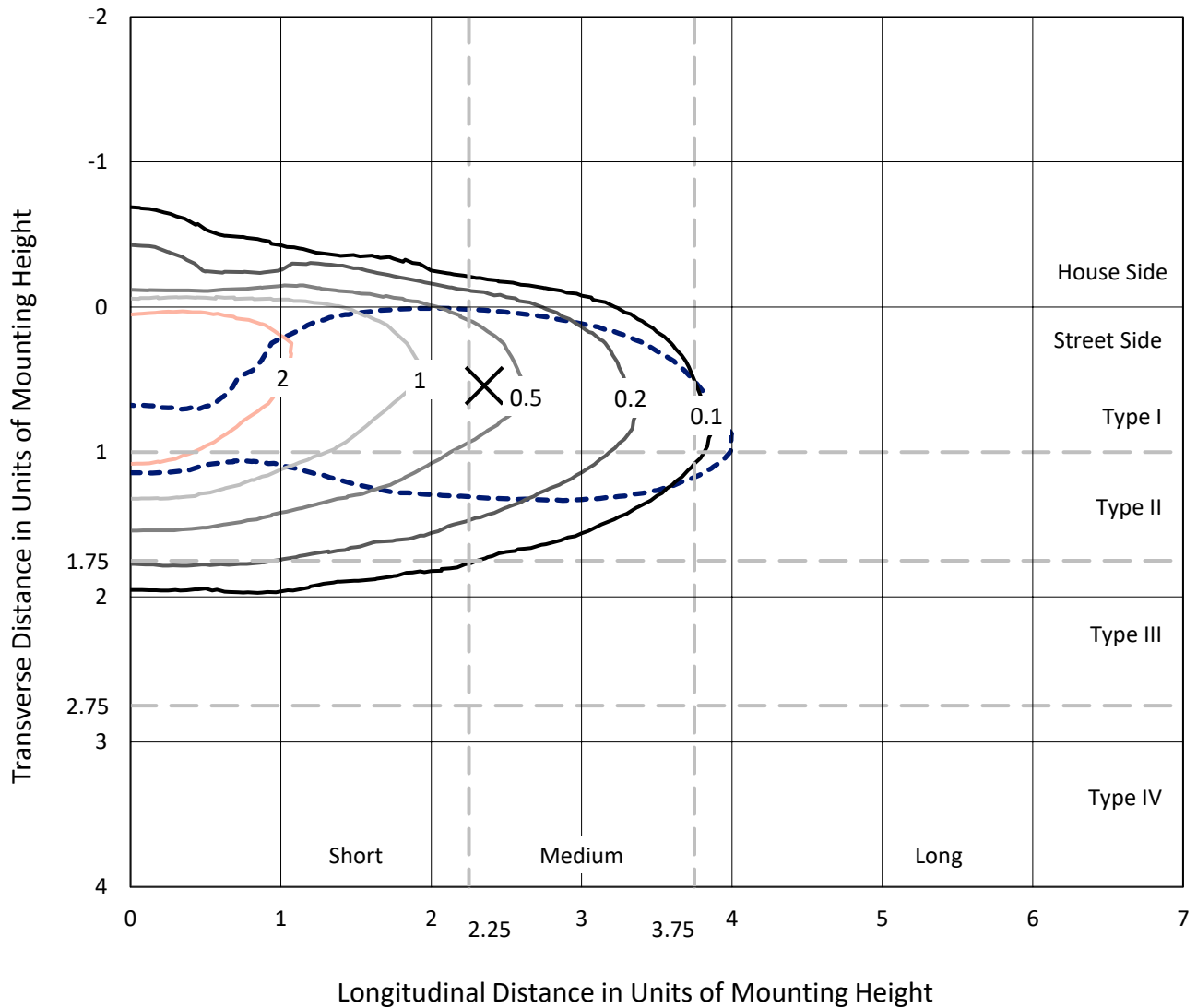
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

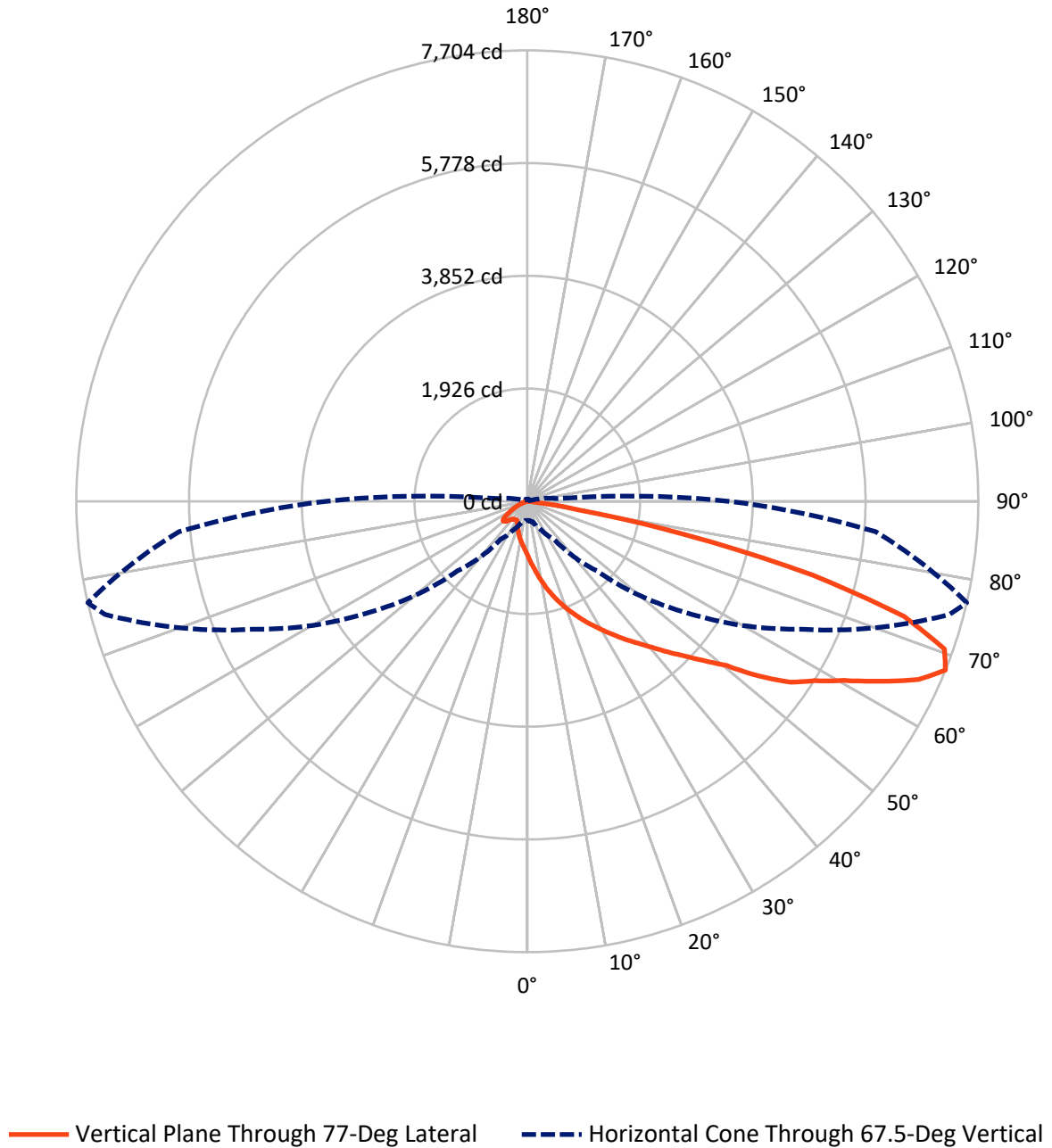
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.2	0.0	591.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	7444.8	0.0	7444.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	8036.0	0.0	8036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.2
10°-20°	331.2	4.1
20°-30°	639.2	8.0
30°-40°	1109.6	13.8
40°-50°	1611.1	20.0
50°-60°	1850.1	23.0
60°-70°	1606.3	20.0
70°-80°	756.6	9.4
80°-90°	37.4	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°	8036.0	100.0
0°-180°	8036.0	100.0

Coefficient of Utilization



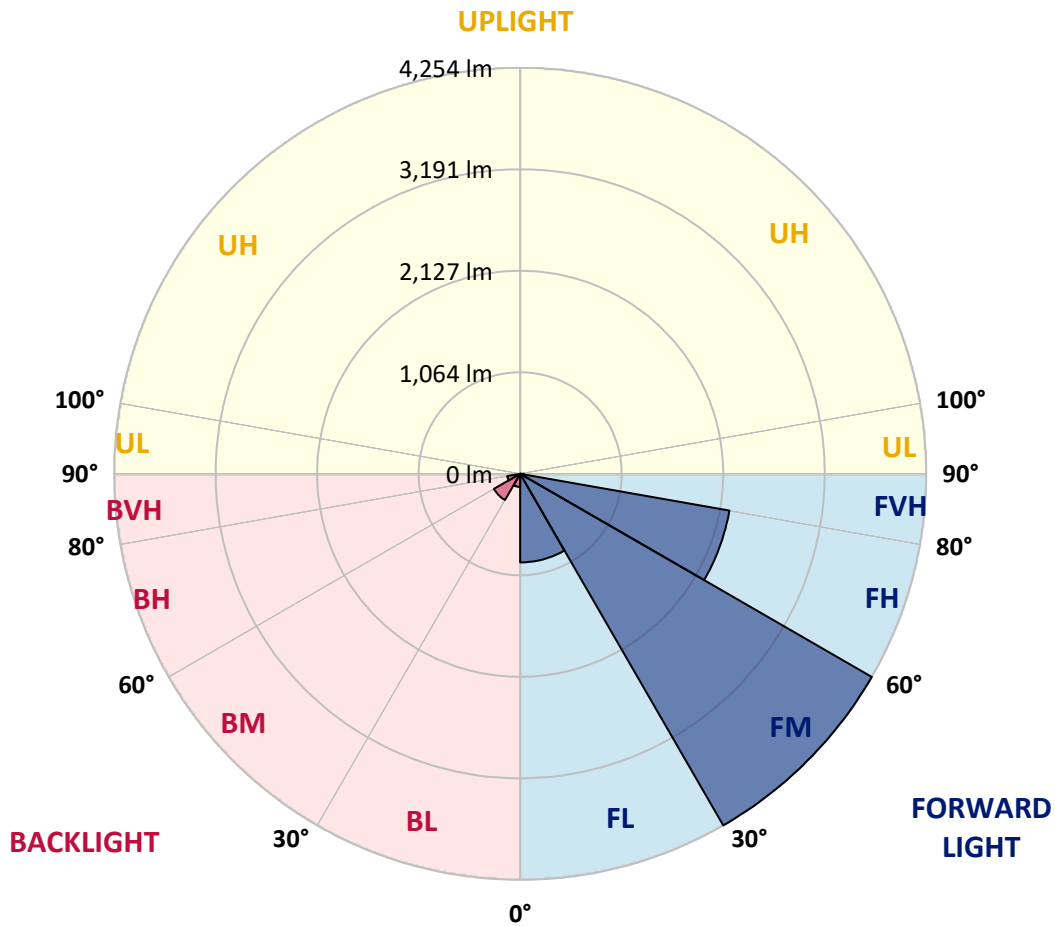
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	928.1	11.5			
FM	(30°-60°)	4254.0	52.9			
FH	(60°-80°)	2226.0	27.7			G2/5000
FVH	(80°-90°)	36.7	0.5			G1/100
BL	(0°-30°)	136.9	1.7	B1/500		
BM	(30°-60°)	316.8	3.9	B1/1000		
BH	(60°-80°)	136.9	1.7	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	926.7	926.7	926.7	926.7	926.7	926.7	926.7	926.7	926.7	926.7
2.5°	1283.0	1290.9	1279.5	1257.5	1224.6	1203.1	1150.7	1101.3	1046.4	1029.0
5°	1563.9	1570.9	1557.9	1534.0	1490.1	1448.1	1379.3	1276.0	1168.7	1134.3
7.5°	1772.0	1776.0	1771.0	1749.0	1707.1	1659.7	1582.9	1460.6	1301.4	1263.5
10°	1921.7	1934.7	1933.2	1924.7	1896.8	1858.3	1776.5	1637.3	1450.1	1401.2
12.5°	2021.0	2035.5	2044.0	2062.9	2061.4	2037.0	1965.1	1817.9	1598.3	1541.0
15°	2049.9	2065.4	2097.9	2141.8	2180.7	2193.2	2142.8	1995.1	1761.5	1688.2
17.5°	2033.5	2057.4	2096.4	2165.7	2251.1	2307.4	2302.0	2166.2	1909.7	1825.9
20°	2069.9	2092.9	2123.3	2181.7	2281.0	2383.3	2424.2	2329.9	2056.9	1969.1
22.5°	2271.5	2267.5	2270.5	2280.0	2339.4	2440.7	2525.0	2478.6	2202.6	2112.8
25°	2590.9	2572.9	2542.5	2491.1	2476.1	2525.0	2612.8	2610.3	2356.3	2260.0
27.5°	2957.2	2954.2	2882.8	2759.0	2689.2	2670.2	2712.1	2738.6	2508.5	2405.7
30°	3308.0	3315.9	3219.6	3081.9	2953.7	2879.3	2841.4	2860.3	2663.2	2562.9
32.5°	3613.4	3621.8	3517.1	3355.9	3197.2	3107.4	3027.5	2980.6	2831.9	2722.6
35°	3871.4	3879.8	3759.6	3581.4	3412.3	3330.9	3240.6	3112.4	3001.6	2899.8
37.5°	4101.9	4099.4	3938.2	3758.6	3592.4	3528.0	3480.6	3274.5	3176.2	3077.9
40°	4238.1	4248.6	4110.9	3912.8	3751.6	3704.7	3701.7	3475.6	3377.8	3282.5
42.5°	4278.0	4296.5	4196.7	4034.0	3887.8	3836.9	3915.3	3693.2	3612.4	3519.5
45°	4206.2	4224.2	4178.7	4066.0	3980.6	3947.7	4098.9	3918.8	3862.9	3771.0
47.5°	3996.6	4019.1	4030.0	4006.1	4005.1	4038.5	4263.6	4156.3	4160.3	4066.5
50°	3590.9	3628.8	3729.6	3814.5	3945.7	4110.4	4423.8	4413.8	4495.6	4414.8
52.5°	2853.4	2907.3	3254.6	3486.6	3781.5	4096.9	4599.9	4827.0	5084.0	4965.7
55°	2293.0	2293.0	2575.4	3009.6	3461.2	4008.1	4676.8	5095.4	5484.7	5456.7
57.5°	1869.3	1891.8	2071.9	2455.6	2997.6	3796.5	4724.2	5264.1	5807.5	5787.1
60°	1153.7	1202.1	1542.5	1921.2	2470.1	3419.7	4694.2	5434.8	6199.3	6215.7
62.5°	649.7	667.7	819.4	1382.3	1920.7	2913.2	4465.2	5530.1	6700.3	6770.1
65°	448.6	457.6	516.0	860.3	1331.4	2319.4	4017.6	5470.7	7202.3	7343.5
67.5°	325.9	330.3	366.8	525.5	789.9	1681.7	3315.9	5171.3	7468.2	7704.3
70°	250.5	253.5	279.9	345.3	466.6	1037.9	2408.2	4576.0	7275.6	7557.6
72.5°	203.6	206.6	227.1	255.5	309.4	613.8	1459.6	3716.2	6425.3	6729.7
75°	171.7	175.7	194.1	212.6	242.5	394.2	684.6	2587.9	4832.0	5031.6
77.5°	95.3	87.8	157.7	176.2	204.6	249.5	320.4	1523.0	2706.2	2761.5
80°	59.4	61.4	125.3	141.7	157.2	125.8	146.7	586.3	938.1	891.2
82.5°	3.5	8.0	96.3	102.3	107.8	53.9	55.4	199.1	226.1	207.6
85°	0.0	0.0	43.9	35.4	37.4	15.5	16.0	46.4	30.4	32.9
87.5°	0.0	0.0	0.0	1.0	0.0	1.5	3.0	4.0	1.5	2.0
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°
926.7	0°	926.7	926.7	926.7	926.7	926.7	926.7	926.7	926.7	926.7	926.7
974.1	2.5°	939.1	904.2	833.4	764.0	707.6	655.2	617.8	582.3	564.4	563.4
1037.0	5°	967.6	894.2	752.5	627.3	526.5	445.6	393.2	355.8	336.8	330.3
1114.3	7.5°	1007.5	897.2	681.7	507.5	388.7	319.4	289.4	277.5	273.5	269.0
1201.6	10°	1057.9	904.2	618.3	408.7	306.4	271.5	259.5	254.5	251.5	248.5
1299.9	12.5°	1114.3	910.7	555.4	339.3	269.5	251.5	243.0	237.0	233.0	229.5
1400.7	15°	1169.2	914.7	490.0	290.9	250.5	236.0	227.1	220.6	215.1	211.1
1499.5	17.5°	1223.6	920.2	428.7	262.0	235.0	220.6	211.6	203.6	199.1	194.6
1603.3	20°	1284.0	919.2	370.8	241.5	219.6	205.1	195.6	188.1	183.6	178.6
1713.1	22.5°	1339.9	914.2	319.9	224.1	203.6	189.6	179.1	171.7	167.2	163.2
1825.4	25°	1404.2	910.2	277.5	208.1	188.6	174.7	163.2	156.2	151.2	147.7
1938.2	27.5°	1466.1	904.2	246.5	193.6	174.2	160.7	149.7	141.7	137.2	134.7
2054.4	30°	1527.0	902.7	235.0	179.6	161.2	147.7	136.7	129.2	125.8	124.8
2182.2	32.5°	1600.3	906.7	240.0	174.7	149.2	135.7	125.3	119.8	116.3	116.3
2324.4	35°	1678.7	905.7	247.5	179.1	141.2	123.8	115.8	112.3	108.8	108.8
2482.1	37.5°	1777.0	907.2	253.5	186.6	138.2	113.8	109.3	104.8	102.8	102.8
2654.8	40°	1923.7	956.6	250.5	193.1	137.2	106.8	97.8	96.3	94.8	94.8
2849.9	42.5°	2103.3	1063.9	254.5	193.6	136.7	101.8	89.8	92.8	89.3	88.8
3069.9	45°	2300.0	1181.2	279.9	183.1	136.2	99.3	85.8	89.3	83.8	83.8
3324.9	47.5°	2495.1	1297.4	305.9	168.2	134.7	98.8	82.3	80.3	78.8	79.3
3657.3	50°	2764.0	1392.2	315.9	147.7	131.2	97.8	75.9	76.3	75.4	76.3
4125.8	52.5°	3057.0	1412.2	303.9	124.8	121.3	94.8	71.4	73.4	72.9	73.9
4455.7	55°	3239.6	1390.8	251.0	103.8	105.8	82.8	66.9	70.9	70.9	70.9
4778.1	57.5°	3428.2	1299.4	178.1	84.3	87.8	67.9	62.9	68.4	67.9	67.4
5166.3	60°	3564.0	1151.7	117.3	69.4	69.9	55.9	58.4	64.4	63.9	61.4
5566.5	62.5°	3665.3	988.5	75.4	58.9	53.4	50.4	53.4	58.4	56.4	50.9
5905.8	65°	3653.8	762.5	57.9	50.4	43.9	43.9	46.4	50.9	44.9	35.9
5970.7	67.5°	3440.7	516.0	47.9	42.4	36.9	36.4	38.4	42.4	38.4	30.4
5638.4	70°	3060.0	337.3	38.4	32.9	29.4	26.9	30.9	36.4	32.4	24.5
4800.0	72.5°	2483.6	205.6	28.9	24.0	21.5	17.5	24.5	29.9	25.9	18.0
3337.9	75°	1606.8	104.8	20.0	15.5	11.5	10.5	18.0	22.5	18.0	11.0
1481.1	77.5°	614.8	43.9	11.0	7.0	6.0	5.0	10.0	13.5	7.5	2.5
286.9	80°	118.3	18.5	5.5	3.5	3.0	2.0	1.5	1.0	0.0	0.0
50.9	82.5°	20.5	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
10.0	85°	7.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.5	87.5°	2.5	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>
926.7
562.4
329.3
268.0
247.5
228.5
210.6
194.1
178.1
162.7
147.2
134.7
124.3
116.3
108.8
102.8
94.8
88.3
83.8
79.3
76.3
73.9
70.9
67.4
61.4
49.9
34.9
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