

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: P939474

Luminaire Tested: **GALN-SB2A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5886 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

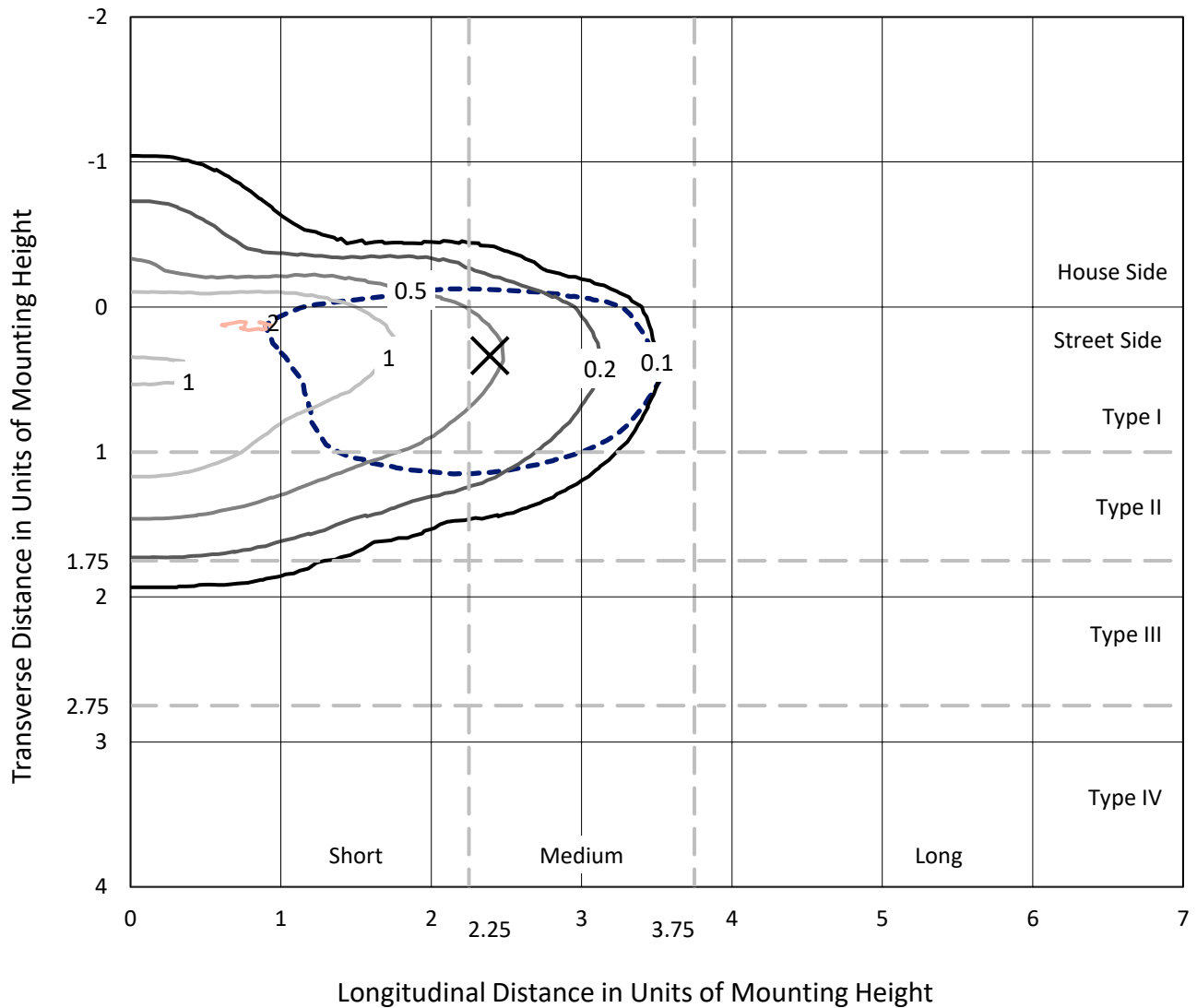
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

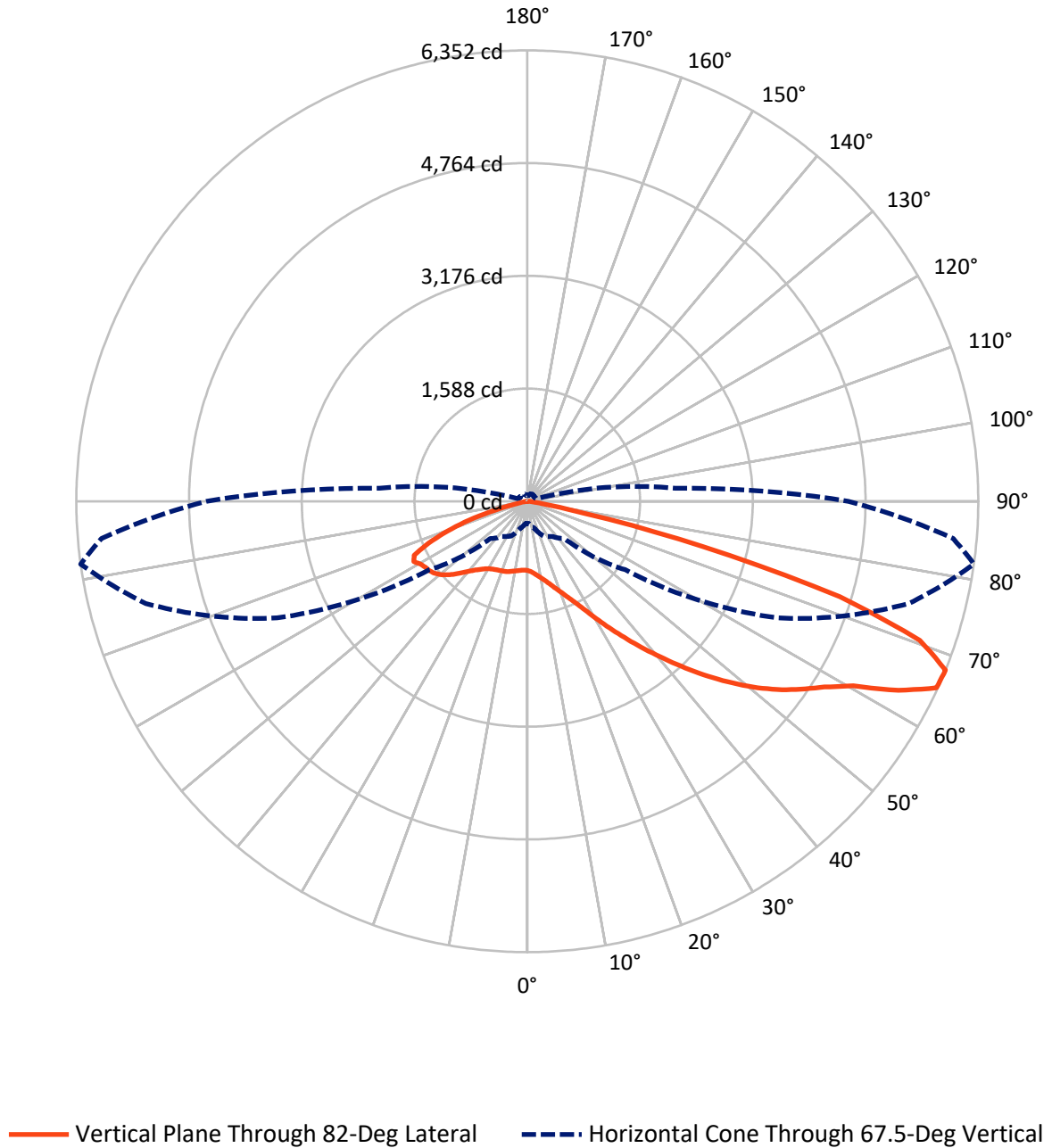
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	1066.2	0.0	1066.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4819.8	0.0	4819.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	5886.0	0.0	5886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	1.5
10°-20°	225.8	3.8
20°-30°	361.6	6.1
30°-40°	639.4	10.9
40°-50°	1120.3	19.0
50°-60°	1494.1	25.4
60°-70°	1391.0	23.6
70°-80°	533.9	9.1
80°-90°	33.2	0.6
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°	5886.0	100.0
0°-180°	5886.0	100.0

Coefficient of Utilization



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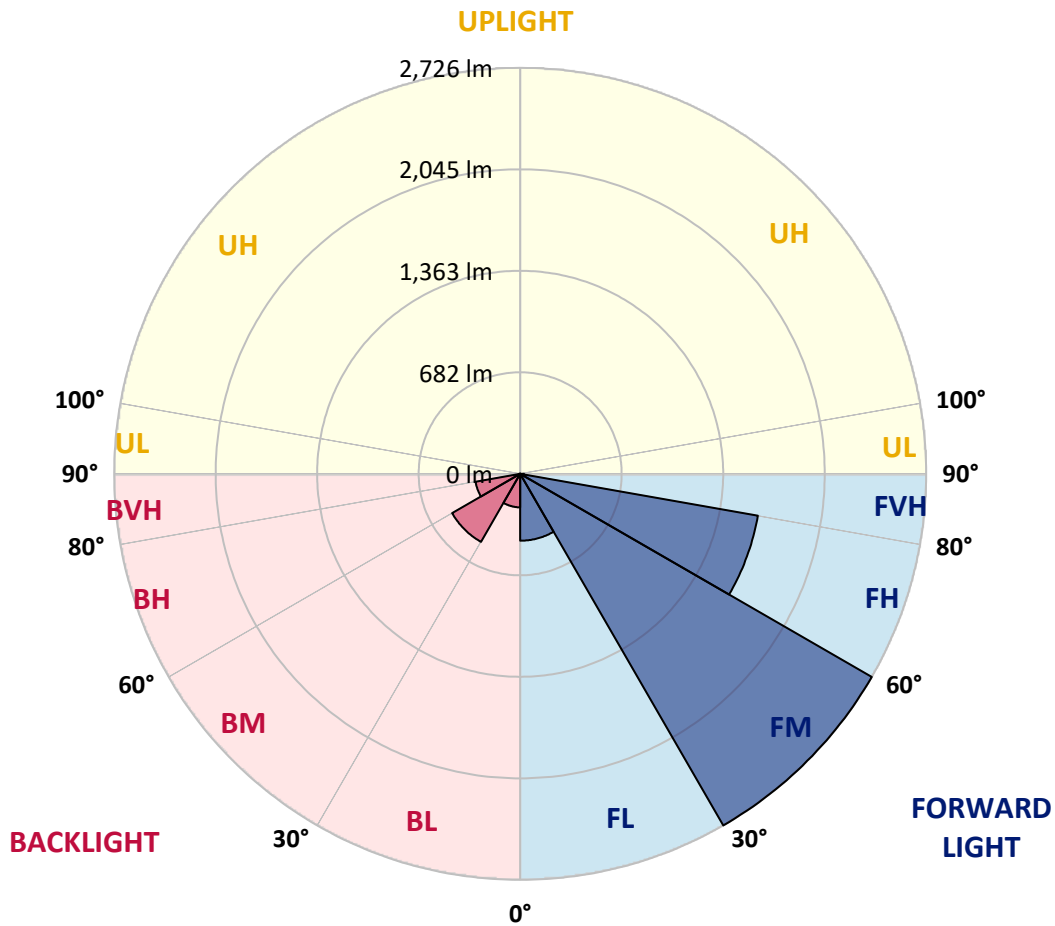
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.0	7.6			
FM (30°-60°)	2726.2	46.3			
FH (60°-80°)	1620.5	27.5			G1/1800
FVH (80°-90°)	24.1	0.4			G1/100
BL (0°-30°)	225.2	3.8	B1/500		
BM (30°-60°)	527.7	9.0	B1/1000		
BH (60°-80°)	304.3	5.2	B1/500		G1/500
BVH (80°-90°)	9.1	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	975.1	975.1	975.1	975.1	975.1	975.1	975.1	975.1	975.1	975.1
2.5°	1030.6	1036.6	1033.2	1031.5	1028.5	1024.3	1020.9	1010.3	999.3	992.1
5°	1051.4	1057.3	1056.9	1058.6	1060.7	1062.0	1061.1	1049.3	1033.6	1021.3
7.5°	1033.6	1040.4	1045.9	1054.4	1069.2	1084.9	1092.5	1090.0	1073.9	1056.9
10°	983.2	990.4	1003.5	1023.4	1054.8	1088.7	1117.1	1130.2	1120.0	1101.4
12.5°	890.8	898.0	923.8	967.1	1019.6	1078.5	1132.8	1167.9	1170.5	1151.8
15°	787.0	794.2	821.7	875.9	956.0	1050.5	1141.2	1207.8	1230.2	1214.1
17.5°	722.5	728.9	749.7	793.3	876.8	994.6	1138.3	1250.1	1301.4	1288.7
20°	703.0	708.6	718.3	748.8	818.3	936.5	1118.8	1290.0	1378.1	1370.9
22.5°	723.8	728.9	731.9	745.4	789.1	898.4	1094.2	1330.7	1467.1	1468.0
25°	771.7	776.8	773.4	781.9	800.9	886.5	1084.9	1378.5	1579.0	1588.3
27.5°	850.5	850.9	842.9	842.5	845.4	904.3	1094.6	1429.8	1720.1	1737.5
30°	1008.6	1002.2	971.3	937.8	922.6	957.7	1121.7	1490.4	1886.7	1917.6
32.5°	1252.3	1242.9	1186.2	1106.1	1025.5	1043.8	1170.5	1559.5	2068.0	2124.0
35°	1516.7	1514.2	1454.8	1335.7	1195.1	1166.2	1249.7	1650.2	2265.9	2354.9
37.5°	1762.5	1761.2	1727.3	1587.0	1415.8	1337.0	1376.9	1768.8	2477.8	2606.7
40°	1987.1	1990.9	1957.0	1831.6	1659.1	1556.1	1549.8	1915.5	2713.4	2880.8
42.5°	2181.2	2185.4	2151.1	2058.3	1899.4	1798.5	1762.1	2095.2	2943.6	3175.4
45°	2313.0	2339.2	2334.2	2260.0	2146.0	2041.3	2017.2	2320.6	3205.9	3487.7
47.5°	2350.3	2374.4	2412.6	2422.7	2353.2	2250.3	2279.1	2592.2	3471.2	3800.4
50°	2258.3	2280.8	2360.0	2465.5	2513.8	2482.1	2533.8	2883.4	3742.8	4112.3
52.5°	2076.9	2099.8	2199.8	2366.8	2563.9	2663.9	2789.3	3170.3	4006.0	4407.7
55°	1814.6	1838.8	1967.2	2156.2	2468.5	2738.9	3002.5	3456.7	4247.1	4673.4
57.5°	1457.8	1475.6	1609.1	1873.5	2228.6	2664.3	3159.7	3769.5	4474.2	4934.5
60°	950.1	965.8	1120.9	1415.8	1831.1	2415.1	3191.0	4118.3	4776.0	5273.9
62.5°	631.9	642.4	734.4	951.0	1289.6	1936.7	3007.5	4396.7	5218.4	5864.7
65°	433.5	444.1	536.1	686.9	833.1	1281.1	2479.9	4359.8	5619.3	6333.8
67.5°	309.4	318.3	396.2	538.6	603.0	744.2	1681.1	3888.6	5561.7	6351.6
70°	221.6	226.7	291.1	419.5	479.3	447.1	934.9	2974.1	4869.6	5865.1
72.5°	155.1	156.8	202.1	319.5	386.1	326.3	445.0	1982.9	3683.0	4603.5
75°	105.1	107.2	136.0	234.3	309.8	249.2	235.6	1063.3	2162.1	2548.2
77.5°	64.4	65.3	87.7	160.2	231.8	189.9	151.7	450.5	836.5	821.3
80°	36.4	36.4	55.9	99.6	158.1	122.5	106.4	191.5	264.9	232.7
82.5°	20.3	20.8	40.7	61.9	104.7	72.5	58.5	88.6	114.4	101.3
85°	8.5	9.3	25.0	29.2	50.0	36.0	23.7	37.3	42.4	37.7
87.5°	0.8	1.3	7.6	5.5	5.9	7.2	3.4	7.2	5.9	5.9
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°
975.1	0°	975.1	975.1	975.1	975.1	975.1	975.1	975.1	975.1	975.1	975.1
989.5	2.5°	981.5	975.1	959.0	940.4	915.8	903.9	887.8	876.8	867.5	868.3
1014.1	5°	1000.5	984.4	948.4	903.5	847.6	807.7	765.3	736.1	712.4	707.3
1048.0	7.5°	1026.8	1001.4	938.2	857.3	762.8	691.2	627.2	586.1	556.8	547.5
1089.1	10°	1060.7	1023.8	925.1	799.2	663.2	572.1	503.4	471.2	451.3	444.5
1137.4	12.5°	1100.1	1049.7	907.7	728.5	560.7	472.9	429.3	413.2	406.8	404.7
1196.7	15°	1149.7	1081.9	881.5	644.6	473.8	412.3	393.7	391.6	392.4	391.6
1267.9	17.5°	1208.6	1117.1	838.7	558.1	415.3	381.4	374.6	376.3	378.4	378.0
1347.6	20°	1273.0	1151.8	784.0	481.4	375.5	359.4	355.5	357.2	358.9	358.1
1439.6	22.5°	1346.3	1189.1	723.4	421.7	348.8	339.0	334.8	335.2	335.2	333.5
1556.1	25°	1434.1	1230.2	659.8	379.3	328.4	320.8	315.7	314.0	311.5	306.4
1697.7	27.5°	1538.7	1273.9	598.8	349.6	312.3	305.1	299.2	294.9	288.6	280.1
1867.6	30°	1656.5	1326.8	547.1	331.0	299.6	292.4	285.6	279.3	269.9	259.4
2062.9	32.5°	1795.1	1383.6	509.4	318.7	288.2	280.5	272.5	264.9	254.7	244.1
2282.5	35°	1960.4	1452.3	487.3	310.2	279.3	269.1	260.2	251.7	244.1	234.8
2521.0	37.5°	2139.7	1525.2	480.6	306.0	273.3	257.7	247.5	241.6	240.7	235.2
2779.1	40°	2335.9	1611.6	485.6	303.4	267.0	246.6	235.6	234.3	236.5	226.7
3055.0	42.5°	2543.5	1714.2	494.1	300.5	258.1	235.6	225.0	225.0	223.3	209.8
3346.6	45°	2768.1	1832.4	502.6	293.3	247.5	224.6	216.6	213.6	206.4	193.2
3639.8	47.5°	2994.4	1952.8	509.0	280.1	234.8	215.3	208.1	201.3	190.7	178.8
3927.6	50°	3209.3	2060.8	502.2	260.6	220.4	206.4	198.8	189.4	178.0	169.9
4200.1	52.5°	3401.2	2154.5	473.4	237.7	205.1	197.1	190.3	180.5	171.2	162.7
4445.8	55°	3568.2	2230.3	422.5	216.1	191.5	189.0	182.2	169.9	157.2	150.0
4689.5	57.5°	3728.4	2288.0	358.9	198.3	179.3	180.1	169.9	158.9	147.1	139.4
5017.9	60°	3941.6	2365.1	294.5	181.8	166.1	168.7	157.6	149.6	134.8	125.0
5581.1	62.5°	4282.3	2485.0	233.9	161.5	150.9	151.7	147.1	137.3	119.5	108.1
5998.6	65°	4552.6	2441.0	184.3	139.4	133.5	134.8	134.8	124.2	105.1	92.0
6021.0	67.5°	4522.1	2090.1	147.1	117.8	117.0	117.8	120.8	111.9	93.2	82.6
5562.5	70°	4165.7	1662.5	117.8	97.9	101.7	99.6	108.1	102.1	83.9	73.3
4312.4	72.5°	3399.1	1197.6	89.8	80.9	78.0	81.4	97.5	92.0	69.9	58.1
2284.2	75°	1986.2	639.1	67.0	64.0	56.4	67.8	86.5	78.4	53.4	42.8
700.1	77.5°	646.7	222.9	49.2	47.0	42.0	54.7	73.7	66.1	43.6	33.9
205.1	80°	173.3	67.4	33.5	30.9	27.1	40.7	58.5	52.5	31.4	22.0
88.1	82.5°	69.5	28.4	19.5	17.4	14.8	28.0	46.2	42.4	23.3	14.0
27.5	85°	22.5	9.3	7.2	5.5	6.8	17.4	27.5	28.8	16.5	7.2
4.2	87.5°	3.0	1.3	1.3	1.7	1.3	3.0	8.5	8.1	4.7	0.8
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>
975.1
859.8
695.8
538.2
439.5
403.4
391.1
377.2
357.7
332.7
305.5
279.3
258.5
244.5
233.9
234.8
227.1
209.8
192.8
178.4
168.7
161.9
149.2
138.6
123.7
107.2
90.7
80.9
72.0
56.8
41.5
32.6
21.6
14.0
5.5
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