

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: P941516

Luminaire Tested: **GALN-SB5A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941516
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-SB5A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA 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: 15968 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

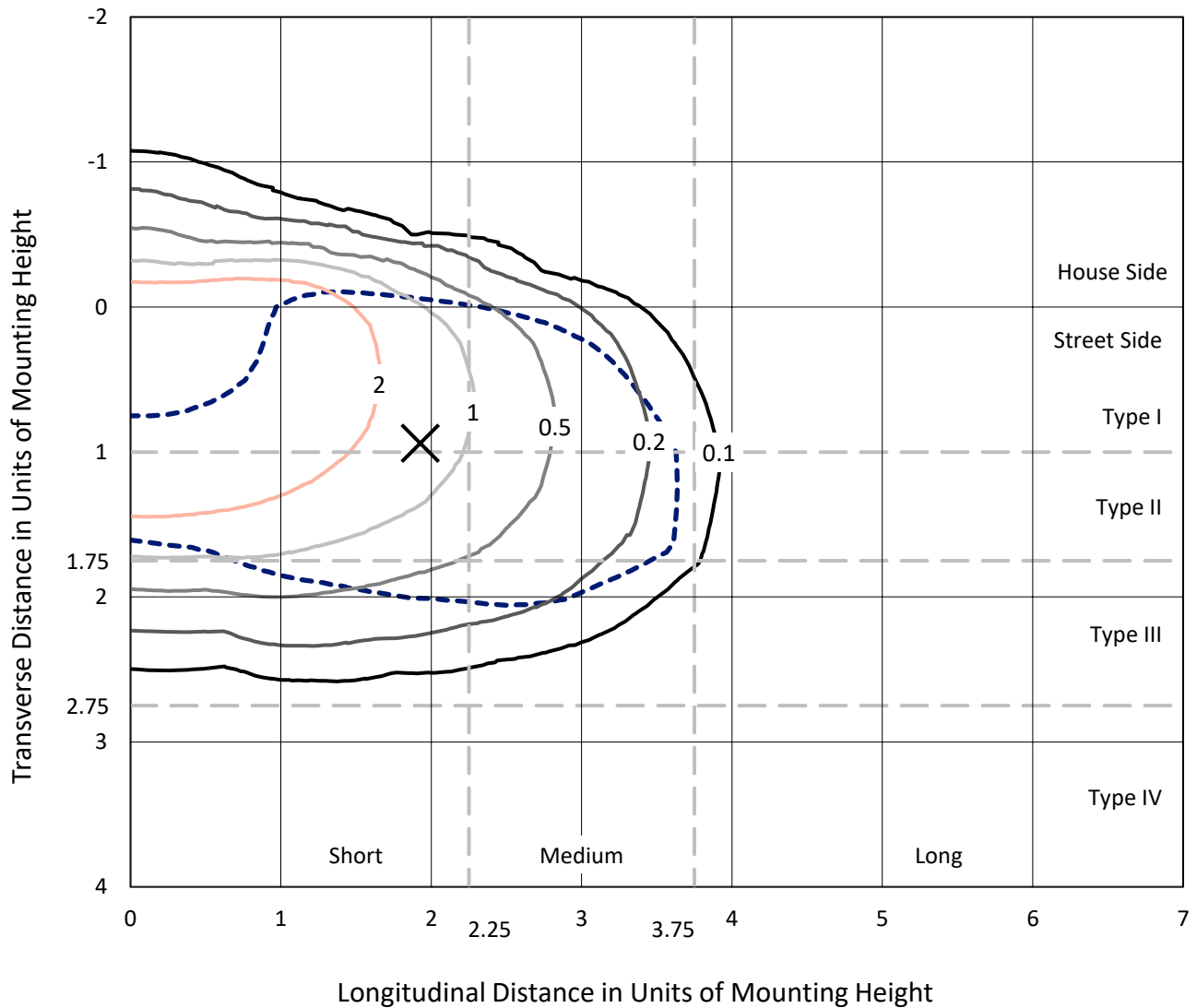
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941516
 CATALOG NUMBER: GALN-SB5A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

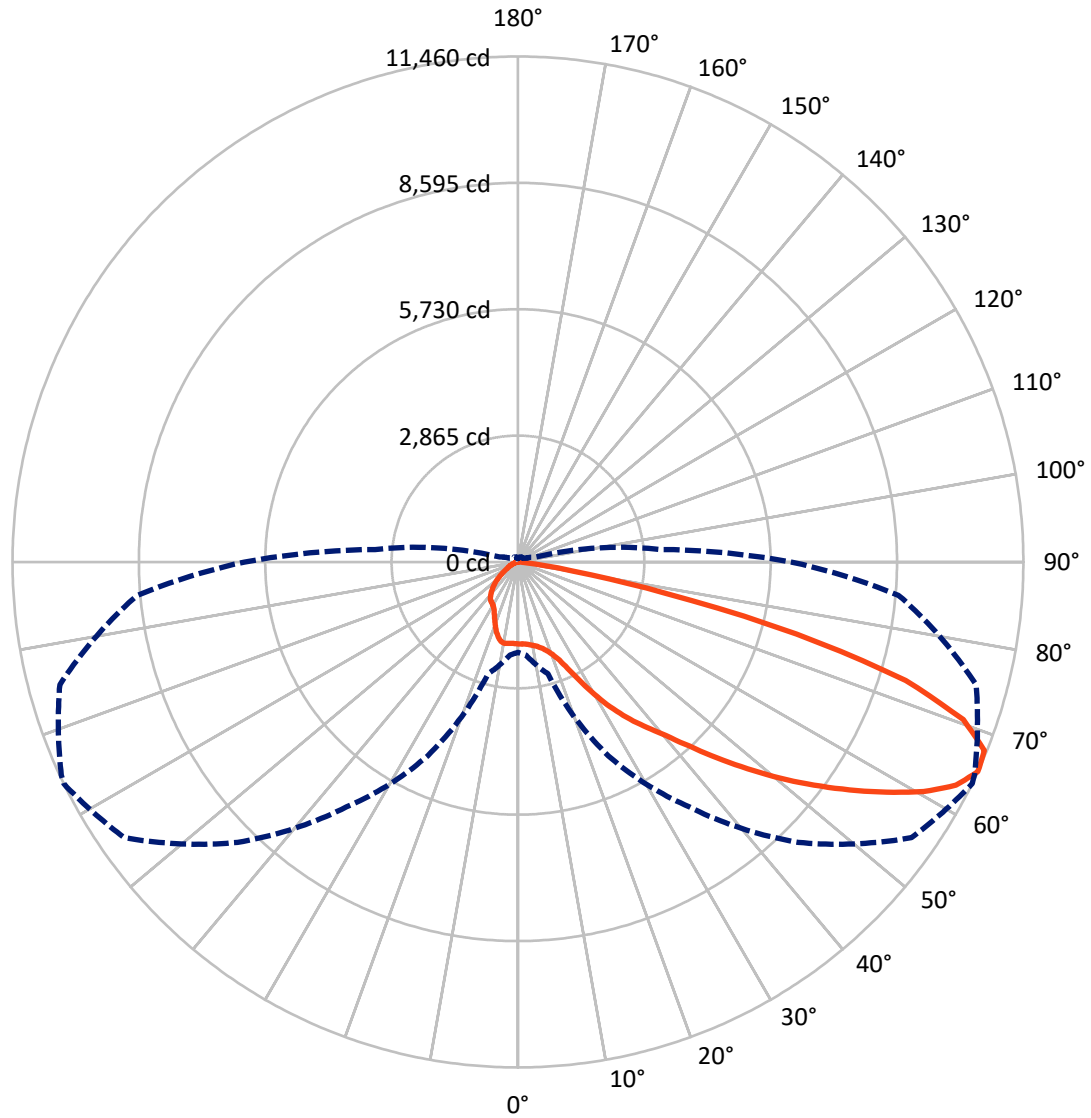
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P941516
CATALOG NUMBER: GALN-SB5A-830-U-T3-HSS

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
House Side	Lumens	2135.4	0.0	2135.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13832.6	0.0	13832.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	15968.0	0.0	15968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.1
10°-20°	464.7	2.9
20°-30°	880.7	5.5
30°-40°	1782.0	11.2
40°-50°	3035.7	19.0
50°-60°	4128.3	25.9
60°-70°	3876.7	24.3
70°-80°	1553.2	9.7
80°-90°	75.2	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°	15968.0	100.0
0°-180°	15968.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941516

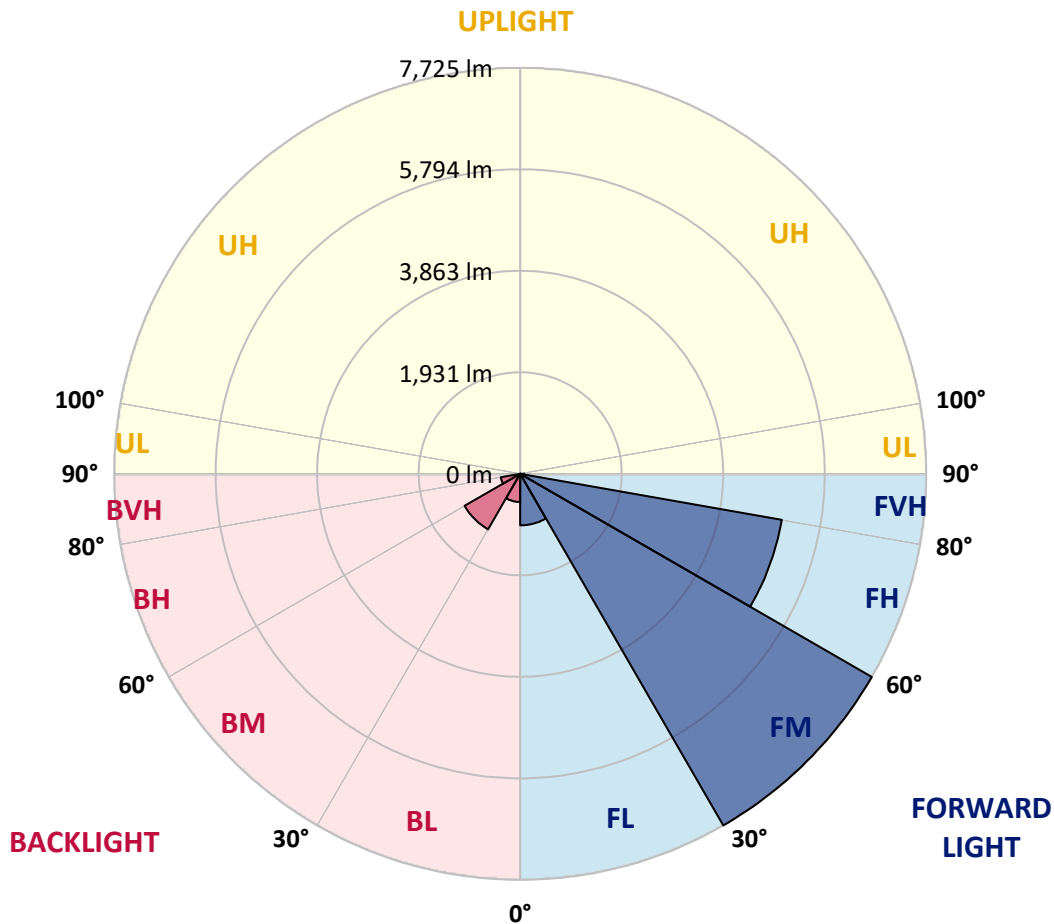
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.6	6.1			
FM (30°-60°)	7725.3	48.4			
FH (60°-80°)	5055.1	31.7			G3/7500
FVH (80°-90°)	71.6	0.4			G1/100
BL (0°-30°)	536.1	3.4	B2/1000		
BM (30°-60°)	1220.8	7.6	B2/2500		
BH (60°-80°)	374.8	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P941516
 CATALOG NUMBER: GALN-SB5A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2
2.5°	1850.8	1863.7	1860.5	1857.2	1856.2	1858.3	1859.4	1858.3	1858.3	1858.3
5°	1815.5	1826.2	1826.2	1833.7	1844.4	1857.2	1866.9	1869.0	1871.2	1874.4
7.5°	1748.1	1756.6	1763.0	1787.7	1814.4	1848.7	1877.6	1892.6	1894.7	1906.5
10°	1702.0	1712.7	1723.4	1749.1	1787.7	1839.0	1888.3	1924.7	1930.0	1957.9
12.5°	1699.9	1710.6	1724.5	1752.3	1797.3	1851.9	1911.8	1964.3	1973.9	2014.6
15°	1722.4	1735.2	1748.1	1782.3	1830.5	1896.9	1961.1	2026.4	2036.0	2093.8
17.5°	1768.4	1785.5	1795.2	1829.4	1880.8	1954.7	2039.2	2114.2	2122.7	2190.2
20°	1859.4	1879.7	1882.9	1910.8	1961.1	2040.3	2140.9	2234.0	2244.7	2321.8
22.5°	2047.8	2076.7	2051.0	2064.9	2109.9	2189.1	2298.3	2416.0	2431.0	2518.8
25°	2379.6	2420.3	2353.9	2330.4	2349.7	2432.1	2569.1	2717.9	2735.0	2805.7
27.5°	3031.5	2979.1	2878.5	2780.0	2722.2	2769.3	2923.4	3107.5	3128.9	3197.5
30°	3747.7	3701.6	3565.7	3347.3	3210.3	3202.8	3345.2	3550.7	3575.3	3640.6
32.5°	4464.9	4421.0	4273.3	4004.6	3766.9	3649.2	3747.7	3975.7	3988.5	4030.3
35°	5170.3	5125.4	4977.6	4702.5	4410.3	4142.7	4123.4	4380.3	4384.6	4428.5
37.5°	5880.0	5842.6	5685.2	5415.4	5127.5	4758.2	4579.4	4763.5	4768.9	4811.7
40°	6386.4	6402.4	6294.3	6085.6	5838.3	5434.7	5091.1	5171.4	5139.3	5211.0
42.5°	6821.0	6853.1	6758.9	6654.0	6510.5	6155.1	5724.8	5710.9	5659.5	5698.0
45°	7196.7	7223.4	7138.9	7114.3	7111.1	6861.6	6417.4	6333.9	6262.2	6254.7
47.5°	7334.8	7386.2	7422.6	7505.0	7665.5	7560.6	7133.5	7004.0	6923.7	6864.8
50°	7387.2	7441.8	7566.0	7805.8	8185.8	8230.7	7846.5	7700.9	7602.4	7495.3
52.5°	7316.6	7414.0	7581.0	7984.5	8535.8	8768.1	8530.5	8403.1	8290.7	8116.2
55°	6900.2	6997.6	7339.1	7982.4	8710.3	9144.9	9177.0	9120.3	8994.0	8718.9
57.5°	6022.4	6166.9	6707.5	7710.5	8707.1	9469.3	9810.7	9851.4	9710.1	9316.2
60°	4806.4	5002.2	5661.7	7107.8	8438.4	9644.8	10366.3	10569.7	10419.8	9904.9
62.5°	3353.7	3580.7	4204.8	6163.7	7824.0	9518.5	10772.0	11147.7	11034.3	10431.6
65°	2045.6	2118.4	2621.6	4850.2	6779.2	8989.7	10897.3	11460.3	11422.9	10753.8
67.5°	1362.7	1423.7	1568.2	3325.9	5262.4	7933.2	10597.5	11405.7	11416.4	10701.4
70°	821.0	873.5	967.7	1934.3	3410.5	6279.3	9669.4	10709.9	10772.0	10000.2
72.5°	338.3	373.6	459.2	876.7	1766.3	3985.3	7699.8	9195.2	9339.7	8408.4
75°	191.6	209.8	269.8	440.0	766.4	1857.2	4664.0	6527.7	6740.7	5795.5
77.5°	127.4	135.9	174.5	284.7	431.4	633.7	1993.2	3400.8	3807.6	3165.3
80°	85.6	93.1	119.9	190.5	280.5	271.9	634.8	1259.9	1550.0	1087.6
82.5°	57.8	58.9	85.6	125.2	177.7	131.7	187.3	391.8	492.4	314.7
85°	33.2	32.1	63.2	72.8	79.2	54.6	56.7	117.8	154.1	132.7
87.5°	4.3	6.4	24.6	19.3	10.7	11.8	11.8	20.3	30.0	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941516
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1857.2	0°	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2	1857.2
1859.4	2.5°	1859.4	1858.3	1855.1	1851.9	1844.4	1840.1	1842.3	1840.1	1839.0	1840.1
1873.3	5°	1873.3	1870.1	1861.5	1850.8	1835.8	1817.6	1805.9	1788.7	1772.7	1763.0
1910.8	7.5°	1910.8	1907.6	1895.8	1865.8	1817.6	1741.6	1672.1	1611.0	1565.0	1538.2
1970.7	10°	1970.7	1965.4	1947.2	1880.8	1754.5	1588.6	1450.5	1335.9	1261.0	1225.7
2041.4	12.5°	2041.4	2034.9	2002.8	1866.9	1634.6	1375.5	1185.0	1057.6	988.0	957.0
2122.7	15°	2124.9	2116.3	2053.1	1800.5	1460.1	1140.0	965.6	870.3	825.3	797.5
2226.6	17.5°	2228.7	2213.7	2090.6	1701.0	1270.6	960.2	830.7	759.0	719.3	692.6
2362.5	20°	2363.6	2339.0	2120.6	1582.1	1096.1	846.7	739.7	679.7	649.8	626.2
2555.2	22.5°	2552.0	2516.6	2157.0	1453.7	973.0	768.6	672.2	628.4	603.7	577.0
2823.9	25°	2785.3	2743.6	2201.9	1334.9	888.5	701.1	623.0	586.6	557.7	526.7
3176.0	27.5°	3111.8	3036.9	2255.5	1237.4	815.7	643.3	578.0	537.4	504.2	478.5
3575.3	30°	3475.8	3352.7	2302.6	1178.6	749.3	589.8	519.2	478.5	447.5	429.3
3933.9	32.5°	3820.5	3653.5	2333.6	1152.9	689.4	528.8	454.9	411.1	387.5	382.2
4285.0	35°	4145.9	3925.4	2330.4	1128.3	635.9	467.8	391.8	346.8	328.6	331.8
4662.9	37.5°	4520.5	4215.5	2307.9	1089.7	592.0	412.1	337.2	297.6	281.5	282.6
5122.1	40°	4956.2	4550.5	2294.0	1016.9	543.8	360.7	292.2	260.1	248.3	244.1
5606.0	42.5°	5420.8	4874.9	2296.1	934.5	483.8	314.7	261.2	234.4	223.7	220.5
6144.4	45°	5887.5	5184.2	2299.3	848.9	420.7	279.4	238.7	216.2	209.8	205.5
6690.4	47.5°	6326.4	5447.6	2239.4	756.8	358.6	252.6	220.5	205.5	200.2	194.8
7238.4	50°	6735.3	5623.1	2094.9	649.8	309.4	231.2	206.6	195.9	190.5	185.2
7735.1	52.5°	7053.2	5650.9	1856.2	539.5	275.1	215.2	198.0	188.4	182.0	176.6
8136.5	55°	7194.5	5476.5	1516.8	436.7	248.3	201.2	189.5	179.8	172.3	167.0
8452.3	57.5°	7158.2	5109.3	1182.9	351.1	222.7	187.3	178.8	172.3	163.8	155.2
8708.2	60°	6979.4	4618.0	891.7	292.2	199.1	172.3	167.0	161.6	149.9	137.0
8806.7	62.5°	6670.0	4000.3	635.9	241.9	173.4	155.2	153.1	148.8	131.7	108.1
8661.1	65°	6196.9	3249.9	428.2	201.2	148.8	135.9	137.0	129.5	107.0	80.3
8128.0	67.5°	5505.4	2376.4	274.0	164.9	124.2	113.5	114.5	110.3	91.0	68.5
7117.5	70°	4624.4	1573.6	178.8	125.2	99.6	87.8	94.2	95.3	77.1	55.7
5462.5	72.5°	3390.1	929.2	125.2	93.1	72.8	61.0	77.1	79.2	62.1	41.7
3286.3	75°	1932.2	441.0	94.2	67.4	45.0	42.8	59.9	59.9	42.8	27.8
1422.6	77.5°	811.4	184.1	66.4	43.9	25.7	24.6	40.7	37.5	21.4	12.8
346.8	80°	234.4	82.4	35.3	21.4	10.7	9.6	16.1	11.8	5.4	2.1
131.7	82.5°	92.1	36.4	13.9	8.6	4.3	4.3	2.1	0.0	0.0	0.0
74.9	85°	54.6	15.0	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
16.1	87.5°	13.9	3.2	2.1	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>
1857.2
1844.4
1765.2
1539.3
1222.5
953.8
798.6
690.4
621.9
572.7
523.5
473.1
426.0
385.4
331.8
286.9
243.0
219.4
205.5
194.8
185.2
175.6
165.9
154.1
134.9
106.0
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