

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: P940956

Luminaire Tested: **GALN-SB4B-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940956
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-SB4B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 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: 17699 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

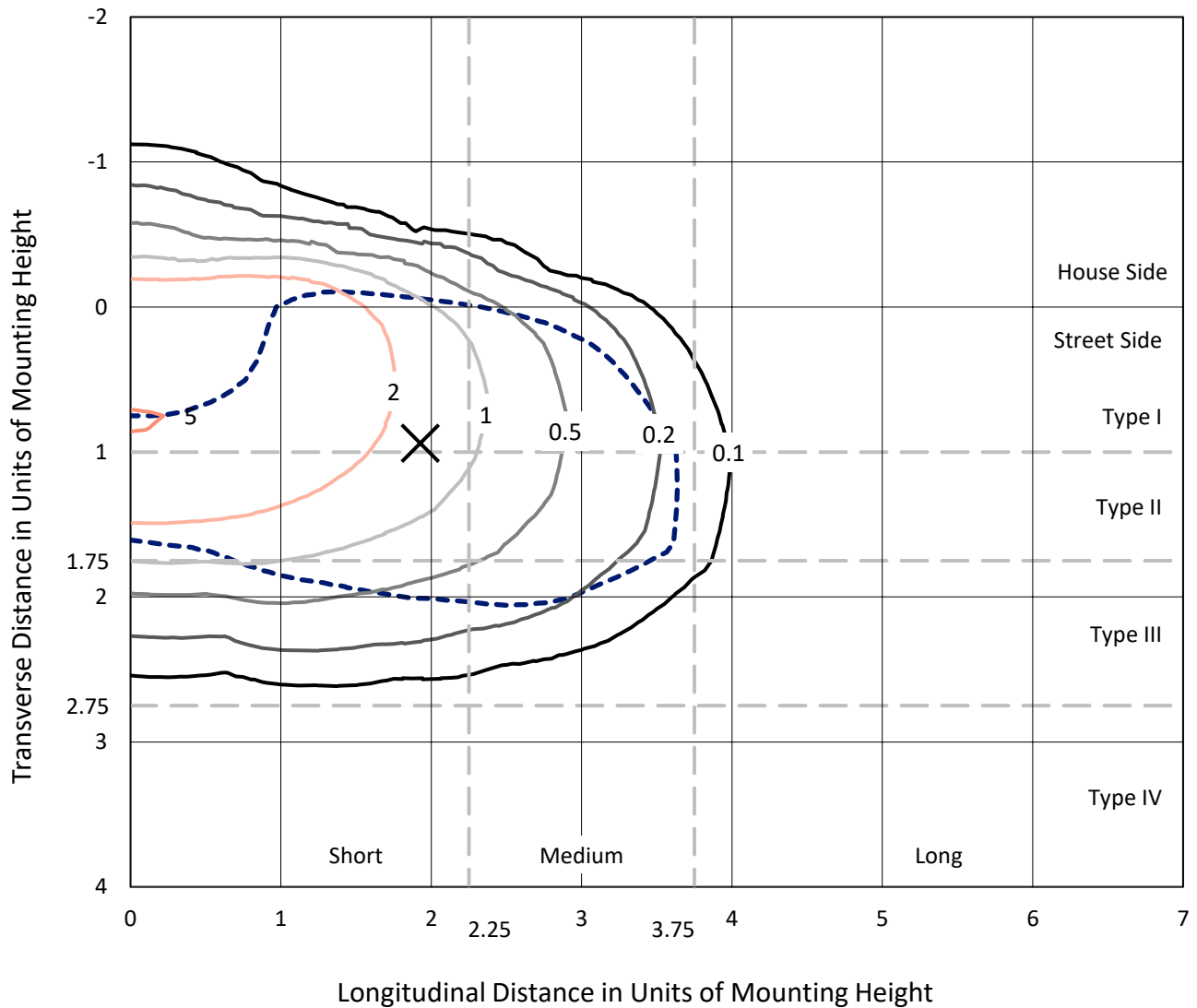
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

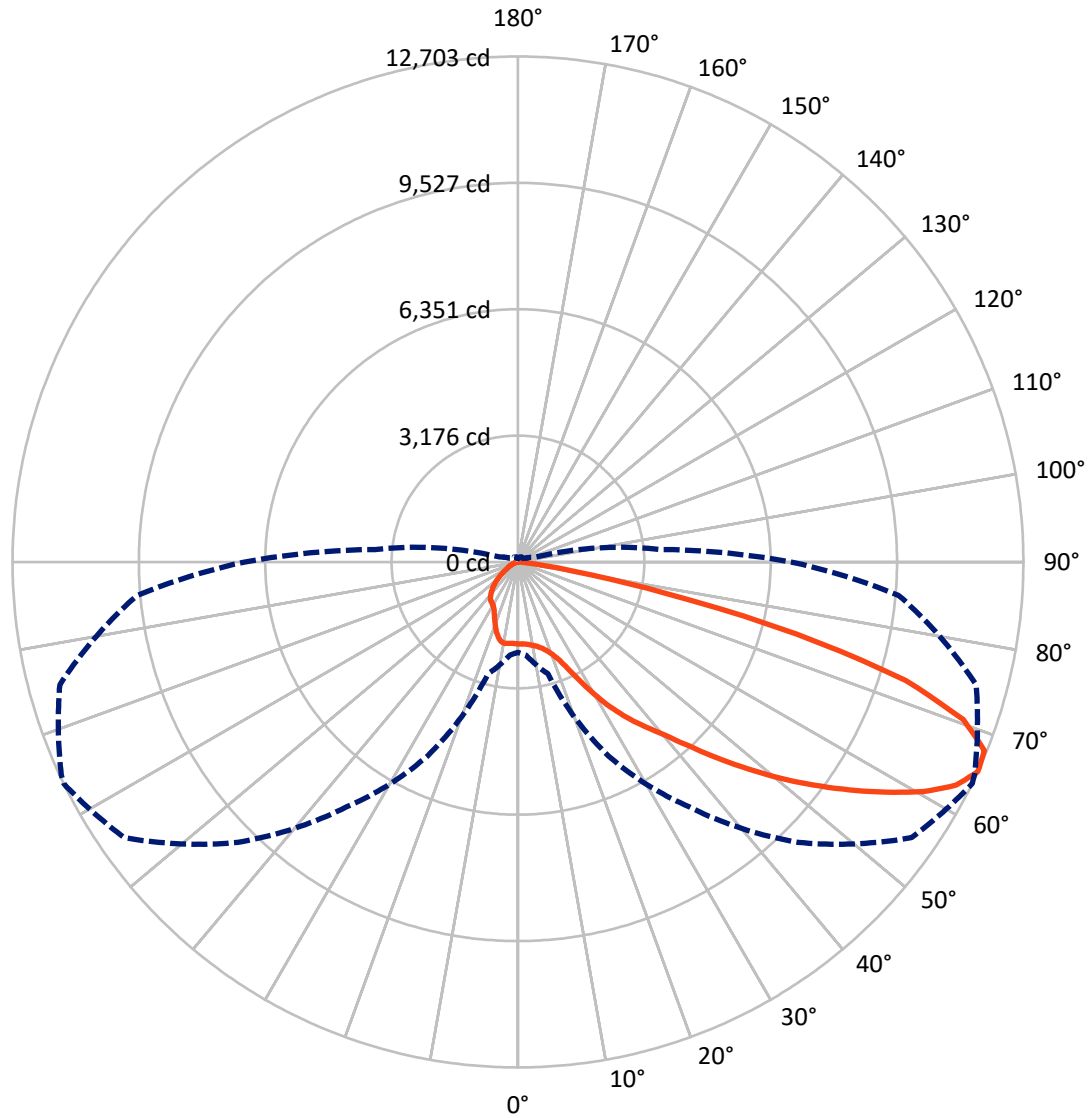
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	2366.9	0.0	2366.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15332.1	0.0	15332.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	17699.0	0.0	17699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.9	1.1
10°-20°	515.1	2.9
20°-30°	976.1	5.5
30°-40°	1975.2	11.2
40°-50°	3364.8	19.0
50°-60°	4575.9	25.9
60°-70°	4297.0	24.3
70°-80°	1721.6	9.7
80°-90°	83.4	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°	17699.0	100.0
0°-180°	17699.0	100.0

Coefficient of Utilization



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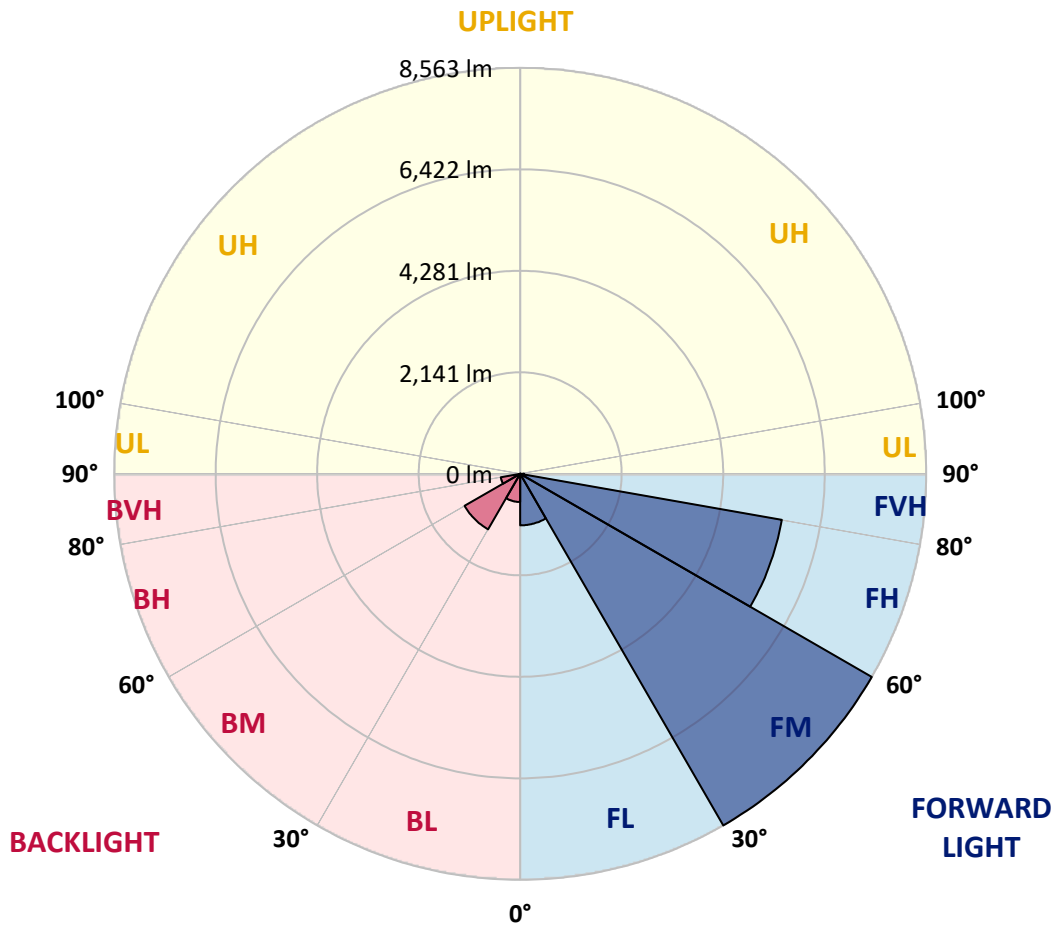
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.9	6.1			
FM (30°-60°)	8562.8	48.4			
FH (60°-80°)	5603.1	31.7			G3/7500
FVH (80°-90°)	79.3	0.4			G1/100
BL (0°-30°)	594.3	3.4	B2/1000		
BM (30°-60°)	1353.1	7.6	B2/2500		
BH (60°-80°)	415.4	2.3	B1/500		G1/500
BVH (80°-90°)	4.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6
2.5°	2051.5	2065.7	2062.1	2058.6	2057.4	2059.8	2061.0	2059.8	2059.8	2059.8
5°	2012.3	2024.2	2024.2	2032.5	2044.3	2058.6	2069.3	2071.6	2074.0	2077.6
7.5°	1937.6	1947.0	1954.2	1981.5	2011.1	2049.1	2081.1	2097.7	2100.1	2113.2
10°	1886.5	1898.4	1910.3	1938.7	1981.5	2038.4	2093.0	2133.3	2139.3	2170.1
12.5°	1884.2	1896.0	1911.5	1942.3	1992.1	2052.6	2119.1	2177.2	2187.9	2233.0
15°	1909.1	1923.3	1937.6	1975.5	2028.9	2102.5	2173.7	2246.0	2256.7	2320.8
17.5°	1960.1	1979.1	1989.8	2027.7	2084.7	2166.5	2260.3	2343.3	2352.8	2427.6
20°	2061.0	2083.5	2087.1	2117.9	2173.7	2261.5	2373.0	2476.2	2488.1	2573.5
22.5°	2269.8	2301.8	2273.3	2288.8	2338.6	2426.4	2547.4	2677.9	2694.5	2791.8
25°	2637.6	2682.7	2609.1	2583.0	2604.4	2695.7	2847.6	3012.5	3031.5	3109.8
27.5°	3360.2	3302.0	3190.5	3081.3	3017.3	3069.5	3240.3	3444.4	3468.1	3544.1
30°	4153.9	4102.9	3952.2	3710.2	3558.3	3550.0	3707.8	3935.6	3962.9	4035.3
32.5°	4948.9	4900.2	4736.5	4438.7	4175.3	4044.8	4153.9	4406.7	4420.9	4467.2
35°	5730.8	5681.0	5517.2	5212.3	4888.4	4591.8	4570.4	4855.2	4859.9	4908.6
37.5°	6517.4	6475.9	6301.5	6002.5	5683.3	5274.0	5075.8	5279.9	5285.9	5333.3
40°	7078.7	7096.5	6976.6	6745.3	6471.2	6023.9	5643.0	5732.0	5696.4	5775.9
42.5°	7560.4	7596.0	7491.6	7375.3	7216.3	6822.4	6345.4	6330.0	6273.0	6315.7
45°	7976.8	8006.5	7912.8	7885.5	7881.9	7605.5	7113.1	7020.5	6941.0	6932.7
47.5°	8129.9	8186.8	8227.2	8318.6	8496.5	8380.2	7906.8	7763.3	7674.3	7609.0
50°	8188.0	8248.5	8386.2	8652.0	9073.2	9123.0	8697.0	8535.7	8426.5	8307.9
52.5°	8109.7	8217.7	8402.8	8850.1	9461.2	9718.6	9455.2	9314.0	9189.4	8996.0
55°	7648.2	7756.2	8134.6	8847.7	9654.6	10136.3	10171.9	10109.0	9969.0	9664.0
57.5°	6675.2	6835.4	7434.6	8546.4	9651.0	10495.8	10874.3	10919.4	10762.7	10326.1
60°	5327.4	5544.5	6275.4	7878.4	9353.2	10690.4	11490.1	11715.5	11549.4	10978.7
62.5°	3717.3	3968.8	4660.6	6831.9	8672.1	10550.4	11939.7	12356.2	12230.4	11562.4
65°	2267.4	2348.1	2905.7	5376.0	7514.1	9964.2	12078.6	12702.7	12661.1	11919.6
67.5°	1510.4	1578.0	1738.2	3686.5	5832.8	8793.2	11746.3	12642.2	12654.0	11861.4
70°	910.0	968.2	1072.6	2144.0	3780.2	6960.0	10717.7	11870.9	11939.7	11084.3
72.5°	374.9	414.1	509.0	971.7	1957.7	4417.3	8534.5	10192.0	10352.2	9320.0
75°	212.4	232.6	299.0	487.7	849.5	2058.6	5169.6	7235.3	7471.4	6423.7
77.5°	141.2	150.7	193.4	315.6	478.2	702.4	2209.3	3769.5	4220.4	3508.5
80°	94.9	103.2	132.9	211.2	310.9	301.4	703.6	1396.5	1718.1	1205.5
82.5°	64.1	65.3	94.9	138.8	197.0	145.9	207.6	434.3	545.8	348.8
85°	36.8	35.6	70.0	80.7	87.8	60.5	62.9	130.5	170.9	147.1
87.5°	4.7	7.1	27.3	21.4	11.9	13.1	13.1	22.5	33.2	35.6
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°
2058.6	0°	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6	2058.6
2061.0	2.5°	2061.0	2059.8	2056.2	2052.6	2044.3	2039.6	2042.0	2039.6	2038.4	2039.6
2076.4	5°	2076.4	2072.8	2063.3	2051.5	2034.8	2014.7	2001.6	1982.6	1964.8	1954.2
2117.9	7.5°	2117.9	2114.3	2101.3	2068.1	2014.7	1930.4	1853.3	1785.7	1734.7	1705.0
2184.3	10°	2184.3	2178.4	2158.2	2084.7	1944.7	1760.8	1607.7	1480.8	1397.7	1358.5
2262.7	12.5°	2262.7	2255.5	2219.9	2069.3	1811.8	1524.7	1313.5	1172.3	1095.1	1060.7
2352.8	15°	2355.2	2345.7	2275.7	1995.7	1618.4	1263.6	1070.2	964.6	914.8	883.9
2467.9	17.5°	2470.3	2453.7	2317.2	1885.3	1408.4	1064.3	920.7	841.2	797.3	767.7
2618.6	20°	2619.8	2592.5	2350.5	1753.6	1215.0	938.5	819.9	753.4	720.2	694.1
2832.2	22.5°	2828.6	2789.5	2390.8	1611.3	1078.5	851.9	745.1	696.5	669.2	639.5
3130.0	25°	3087.3	3041.0	2440.6	1479.6	984.8	777.2	690.5	650.2	618.2	583.8
3520.3	27.5°	3449.2	3366.1	2500.0	1371.6	904.1	713.1	640.7	595.6	558.8	530.4
3962.9	30°	3852.6	3716.1	2552.2	1306.3	830.5	653.8	575.5	530.4	496.0	475.8
4360.4	32.5°	4234.6	4049.5	2586.6	1277.9	764.1	586.1	504.3	455.6	429.5	423.6
4749.6	35°	4595.3	4350.9	2583.0	1250.6	704.8	518.5	434.3	384.4	364.3	367.8
5168.4	37.5°	5010.6	4672.4	2558.1	1207.9	656.1	456.8	373.7	329.8	312.0	313.2
5677.4	40°	5493.5	5043.8	2542.7	1127.2	602.7	399.9	323.9	288.3	275.3	270.5
6213.7	42.5°	6008.4	5403.3	2545.0	1035.8	536.3	348.8	289.5	259.8	248.0	244.4
6810.5	45°	6525.7	5746.2	2548.6	940.9	466.3	309.7	264.6	239.7	232.6	227.8
7415.6	47.5°	7012.2	6038.1	2482.2	838.9	397.5	280.0	244.4	227.8	221.9	215.9
8023.1	50°	7465.5	6232.7	2322.0	720.2	342.9	256.3	229.0	217.1	211.2	205.3
8573.6	52.5°	7817.8	6263.5	2057.4	598.0	304.9	238.5	219.5	208.8	201.7	195.8
9018.6	55°	7974.5	6070.1	1681.3	484.1	275.3	223.1	210.0	199.3	191.0	185.1
9368.6	57.5°	7934.1	5663.2	1311.1	389.2	246.8	207.6	198.1	191.0	181.5	172.0
9652.2	60°	7736.0	5118.6	988.4	323.9	220.7	191.0	185.1	179.2	166.1	151.9
9761.3	62.5°	7393.1	4434.0	704.8	268.1	192.2	172.0	169.7	164.9	145.9	119.8
9600.0	65°	6868.6	3602.2	474.6	223.1	164.9	150.7	151.9	143.6	118.6	89.0
9009.1	67.5°	6102.2	2634.0	303.7	182.7	137.6	125.8	127.0	122.2	100.9	75.9
7889.0	70°	5125.7	1744.2	198.1	138.8	110.3	97.3	104.4	105.6	85.4	61.7
6054.7	72.5°	3757.6	1029.9	138.8	103.2	80.7	67.6	85.4	87.8	68.8	46.3
3642.6	75°	2141.6	488.8	104.4	74.7	49.8	47.5	66.4	66.4	47.5	30.8
1576.9	77.5°	899.4	204.1	73.6	48.6	28.5	27.3	45.1	41.5	23.7	14.2
384.4	80°	259.8	91.4	39.2	23.7	11.9	10.7	17.8	13.1	5.9	2.4
145.9	82.5°	102.0	40.3	15.4	9.5	4.7	4.7	2.4	0.0	0.0	0.0
83.1	85°	60.5	16.6	7.1	3.6	1.2	0.0	0.0	0.0	0.0	0.0
17.8	87.5°	15.4	3.6	2.4	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>
2058.6
2044.3
1956.5
1706.2
1355.0
1057.2
885.1
765.3
689.4
634.8
580.2
524.4
472.2
427.1
367.8
318.0
269.3
243.2
227.8
215.9
205.3
194.6
183.9
170.9
149.5
117.5
86.6
72.4
59.3
43.9
28.5
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