

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: P948123

Luminaire Tested: **GALN-SB3B-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14066 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

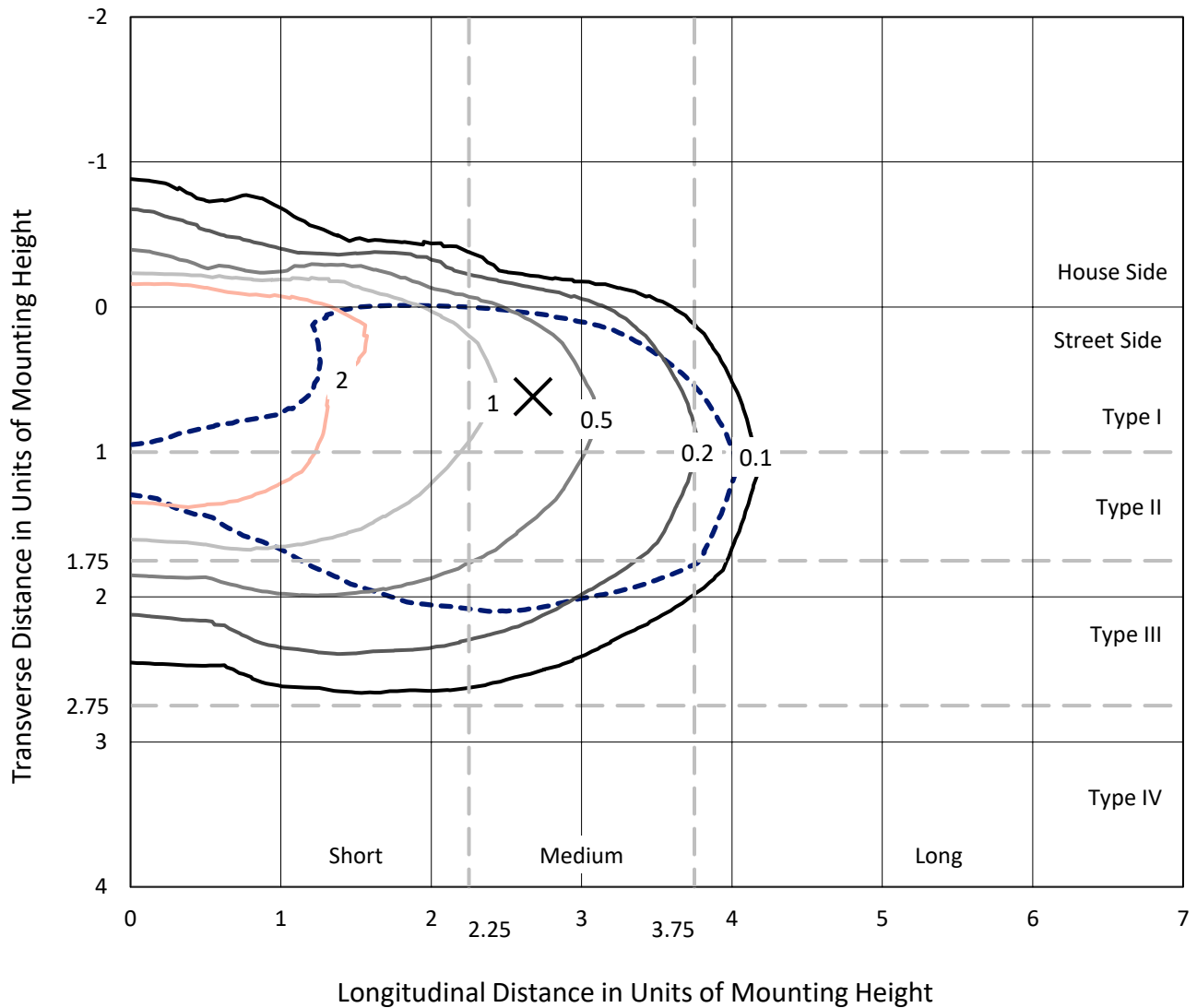
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

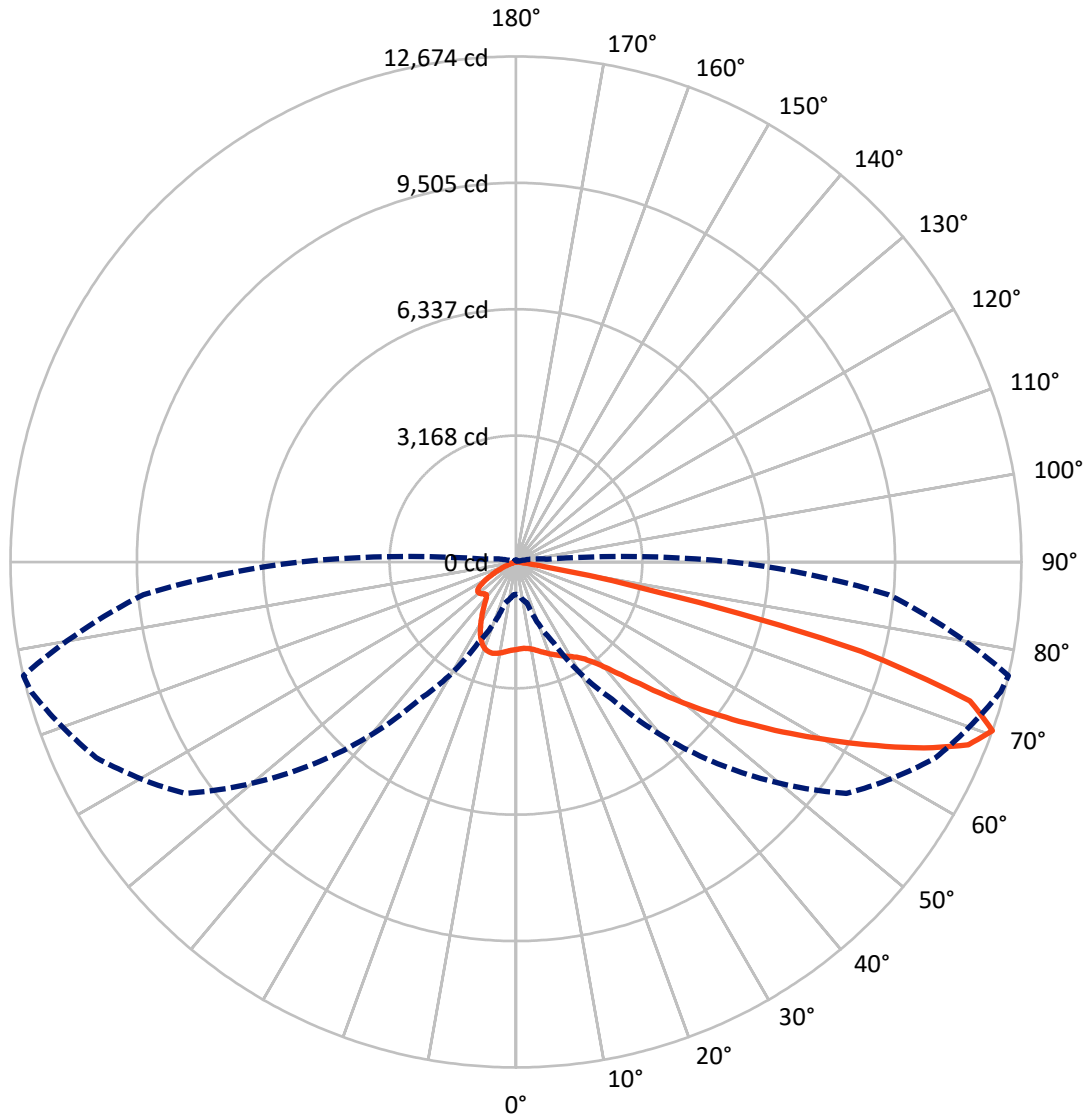
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.8	0.0	1482.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12583.2	0.0	12583.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	14066.0	0.0	14066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	1.3
10°-20°	448.9	3.2
20°-30°	694.3	4.9
30°-40°	1259.8	9.0
40°-50°	2378.1	16.9
50°-60°	3436.1	24.4
60°-70°	3657.7	26.0
70°-80°	1938.3	13.8
80°-90°	63.6	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°	14066.0	100.0
0°-180°	14066.0	100.0

Coefficient of Utilization



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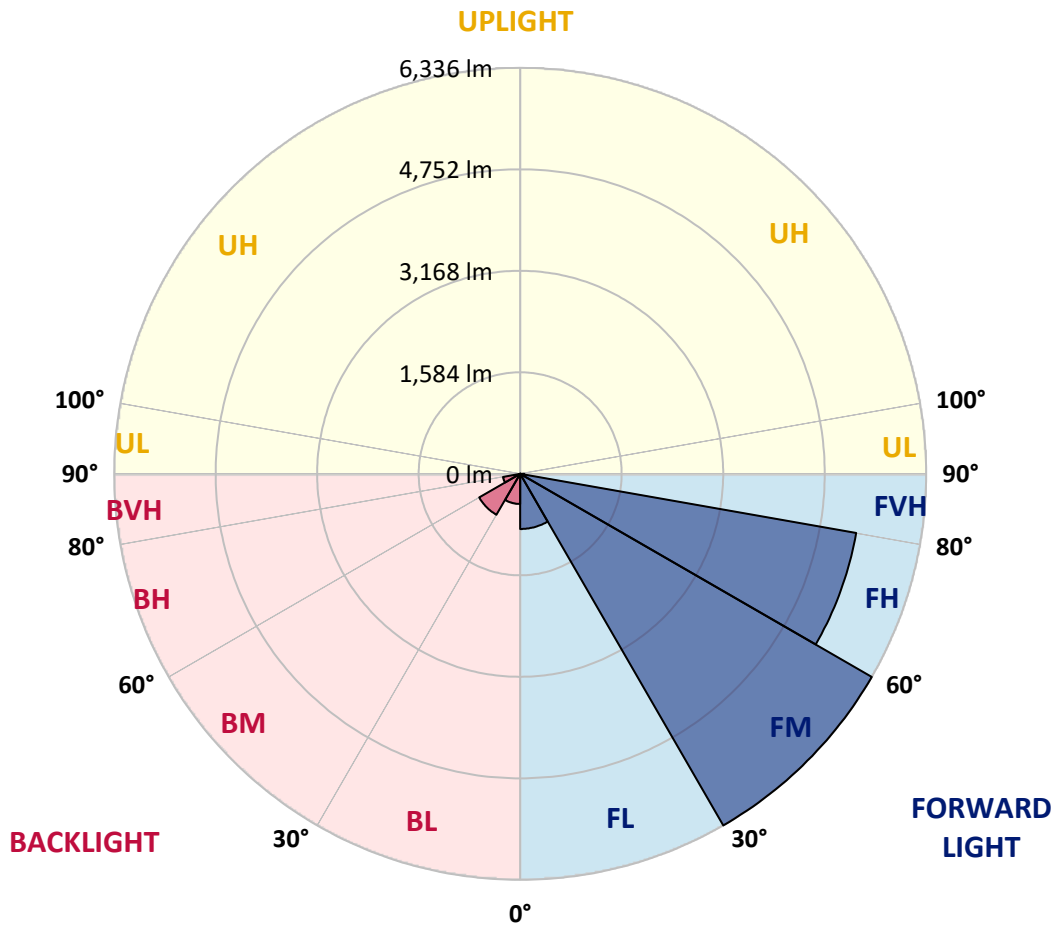
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	861.2	6.1			
FM (30°-60°)	6336.0	45.0			
FH (60°-80°)	5324.2	37.9			G3/7500
FVH (80°-90°)	61.9	0.4			G1/100
BL (0°-30°)	471.1	3.3	B1/500		
BM (30°-60°)	738.1	5.2	B1/1000		
BH (60°-80°)	271.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0
2.5°	2059.9	2078.6	2075.9	2088.3	2092.8	2110.5	2128.3	2152.3	2178.9	2178.1
5°	1943.5	1962.2	1966.6	1983.5	2004.8	2032.4	2068.8	2116.8	2166.5	2174.5
7.5°	1805.9	1825.4	1837.0	1870.7	1909.8	1966.6	2026.2	2096.3	2178.9	2190.5
10°	1668.2	1685.9	1701.0	1749.0	1811.2	1895.6	1992.4	2093.7	2204.7	2221.6
12.5°	1582.9	1599.8	1616.7	1658.4	1735.7	1838.7	1970.2	2106.1	2247.3	2271.3
15°	1552.7	1567.8	1581.1	1618.4	1690.4	1807.6	1965.8	2131.9	2301.5	2333.5
17.5°	1557.1	1565.1	1574.0	1602.5	1672.6	1793.4	1973.7	2176.3	2365.5	2393.9
20°	1582.9	1587.3	1588.2	1607.8	1670.0	1791.7	1989.7	2218.9	2425.9	2464.1
22.5°	1615.8	1617.6	1615.8	1629.1	1686.8	1805.0	2011.1	2270.4	2493.4	2528.9
25°	1769.4	1735.7	1693.1	1667.3	1715.3	1830.7	2043.0	2339.7	2567.1	2601.8
27.5°	2246.5	2149.6	1996.8	1825.4	1773.9	1868.0	2087.4	2409.9	2641.7	2672.8
30°	3021.0	2894.0	2634.6	2248.2	1962.2	1946.2	2145.2	2480.1	2720.8	2754.5
32.5°	3797.4	3766.3	3466.9	2932.2	2385.9	2120.3	2241.1	2575.1	2825.6	2852.3
35°	4582.6	4519.5	4274.4	3745.9	3038.8	2474.7	2401.0	2699.5	2963.3	2993.5
37.5°	5184.0	5145.8	4993.9	4558.6	3813.4	3021.9	2674.6	2892.2	3163.2	3196.9
40°	5715.2	5697.4	5645.9	5359.0	4679.4	3737.9	3100.1	3190.7	3440.3	3480.3
42.5°	6132.7	6174.4	6203.7	6123.8	5572.2	4555.1	3672.1	3610.0	3826.7	3867.6
45°	6559.9	6574.1	6692.3	6807.7	6458.7	5409.6	4317.0	4101.2	4307.3	4357.9
47.5°	6834.4	6891.2	7099.1	7302.5	7203.9	6257.0	5009.9	4681.2	4864.2	4959.2
50°	6854.8	6962.3	7248.3	7602.8	7746.7	7063.6	5763.1	5342.1	5536.6	5641.4
52.5°	6514.6	6681.6	7124.9	7643.6	8039.8	7746.7	6542.2	6003.0	6252.6	6389.4
55°	4994.8	5213.3	6660.3	7421.5	8051.3	8264.5	7300.7	6691.4	7050.2	7204.8
57.5°	4351.7	4461.8	5236.4	7036.0	7837.3	8473.3	7986.5	7346.9	7918.1	8110.0
60°	3620.6	3765.4	4391.6	6405.4	7546.8	8493.7	8592.3	8192.6	8858.8	9074.6
62.5°	2460.5	2617.7	3240.4	5321.7	7149.7	8483.9	9088.8	9063.1	9904.3	10136.1
65°	1524.3	1622.9	2033.3	4345.4	6594.6	8494.6	9608.5	10120.1	11007.5	11242.9
67.5°	1204.5	1249.8	1463.9	3336.4	5637.9	8254.7	10127.2	11114.1	12045.9	12232.5
70°	809.2	836.8	1065.0	2236.7	4194.4	7148.0	10117.5	11613.3	12580.7	12673.9
72.5°	426.4	447.7	622.7	1035.7	2533.4	5080.9	8528.3	11016.4	12048.6	11908.2
75°	213.2	248.7	419.3	525.9	1081.9	2833.6	5295.9	8685.6	9483.2	8939.6
77.5°	161.7	195.4	346.4	346.4	376.6	954.0	2242.9	4737.2	4369.4	3638.4
80°	103.0	133.2	302.9	262.0	157.2	242.5	584.5	1327.1	928.2	706.2
82.5°	60.4	87.1	252.3	173.2	87.9	89.7	165.2	282.5	240.7	187.4
85°	24.0	56.8	173.2	68.4	34.6	22.2	49.7	60.4	49.7	37.3
87.5°	0.0	13.3	30.2	0.0	2.7	1.8	3.6	4.4	4.4	3.6
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°
2194.0	0°	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0	2194.0
2195.8	2.5°	2203.8	2205.6	2210.9	2211.8	2199.4	2183.4	2177.2	2174.5	2163.8	2163.0
2210.0	5°	2230.5	2238.5	2230.5	2207.4	2152.3	2075.0	2016.4	1968.4	1924.9	1911.6
2258.9	7.5°	2283.8	2291.8	2267.8	2177.2	2038.6	1884.9	1746.4	1648.6	1560.7	1527.8
2318.4	10°	2360.1	2370.8	2295.3	2112.3	1867.2	1620.2	1385.7	1220.5	1091.7	1039.3
2399.2	12.5°	2456.1	2460.5	2310.4	2013.7	1644.2	1291.6	959.3	782.6	668.0	625.3
2496.9	15°	2561.8	2555.6	2312.2	1879.6	1340.4	913.1	626.2	514.3	468.1	453.9
2594.7	17.5°	2672.8	2647.1	2276.7	1685.9	1007.3	624.5	464.6	437.9	429.9	426.4
2691.5	20°	2782.1	2724.3	2211.8	1432.8	723.1	466.3	421.9	413.9	409.5	407.7
2789.2	22.5°	2881.6	2783.0	2100.8	1138.8	525.0	412.2	398.8	391.7	383.7	380.2
2884.2	25°	2978.4	2816.7	1944.4	864.3	420.2	385.5	374.9	361.5	350.9	346.4
2986.4	27.5°	3072.5	2838.0	1749.0	639.6	374.9	360.6	341.1	322.4	314.4	312.7
3095.6	30°	3172.9	2845.1	1526.9	477.0	347.3	329.6	301.1	279.8	275.4	276.3
3243.1	32.5°	3295.5	2855.8	1303.1	390.8	324.2	292.2	258.5	236.3	232.7	236.3
3458.1	35°	3442.1	2877.1	1087.2	359.8	303.8	254.0	217.6	199.0	195.4	198.1
3733.4	37.5°	3641.0	2911.8	885.6	353.5	286.9	222.1	183.0	167.9	167.9	168.8
4071.0	40°	3905.8	3004.1	705.3	349.1	278.0	198.1	154.6	148.3	151.0	152.8
4500.9	42.5°	4228.2	3200.5	583.6	343.8	268.3	187.4	140.3	137.7	142.1	143.9
5016.1	45°	4589.7	3449.2	541.0	334.9	259.4	194.5	134.1	130.6	135.9	136.8
5593.5	47.5°	4963.7	3692.6	535.6	325.1	250.5	205.2	132.4	124.4	130.6	131.5
6209.9	50°	5342.1	3851.6	541.0	310.0	236.3	205.2	133.2	118.1	123.5	126.1
6849.5	52.5°	5723.2	3924.4	537.4	277.1	211.4	192.8	133.2	112.8	118.1	119.9
7540.6	55°	6092.7	3910.2	483.2	228.3	179.4	170.5	129.7	108.4	111.9	112.8
8193.5	57.5°	6384.9	3712.1	382.8	177.7	145.7	142.1	118.1	103.0	105.7	104.8
8792.2	60°	6537.7	3276.9	273.6	136.8	114.6	111.9	103.9	95.9	97.7	93.3
9299.4	62.5°	6539.5	2701.2	183.0	108.4	91.5	88.8	88.8	86.2	84.4	75.5
9692.0	65°	6400.0	2062.6	121.7	86.2	73.7	69.3	74.6	73.7	67.5	55.1
9811.9	67.5°	6083.8	1352.0	92.4	67.5	56.8	54.2	59.5	62.2	57.7	46.2
9374.9	70°	5433.6	787.0	76.4	52.4	42.6	40.0	48.0	53.3	48.0	37.3
8013.1	72.5°	4513.3	424.6	62.2	39.1	29.3	26.6	38.2	43.5	38.2	27.5
5141.3	75°	2928.6	227.4	48.0	25.8	15.1	16.9	28.4	32.0	26.6	17.8
1509.2	77.5°	983.3	100.4	30.2	12.4	7.1	7.1	16.9	19.5	12.4	6.2
274.5	80°	219.4	41.7	12.4	5.3	2.7	2.7	3.6	3.6	1.8	0.0
84.4	82.5°	72.0	16.9	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
21.3	85°	27.5	6.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.1	87.5°	10.7	0.9	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

180°
2194.0
2164.7
1903.6
1514.5
1017.1
612.0
453.9
425.5
405.9
379.3
344.7
310.9
276.3
235.4
197.2
167.9
152.8
143.9
137.7
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127.0
119.9
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