

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: P949108

Luminaire Tested: **GALN-SB3D-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16232 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

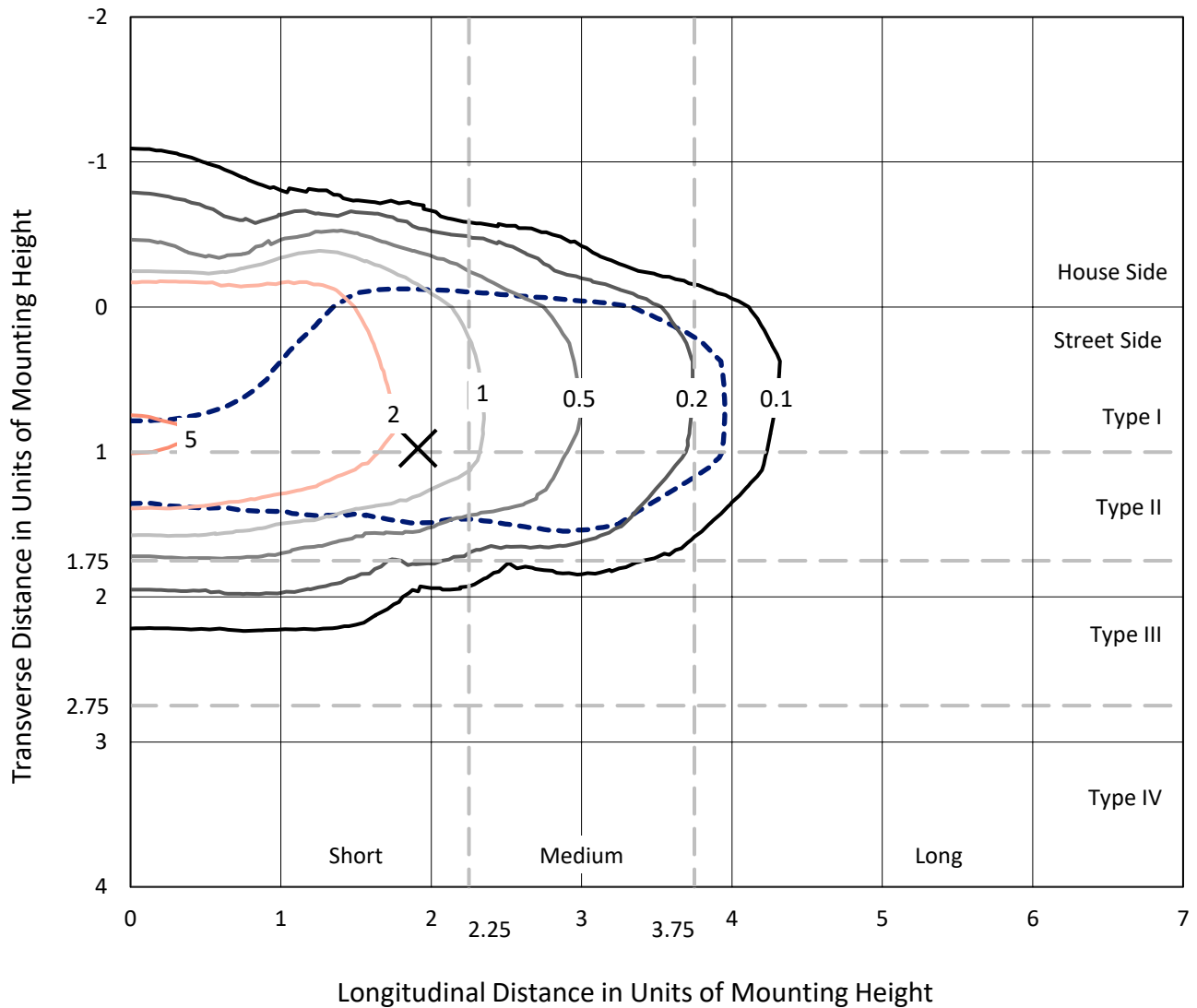
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

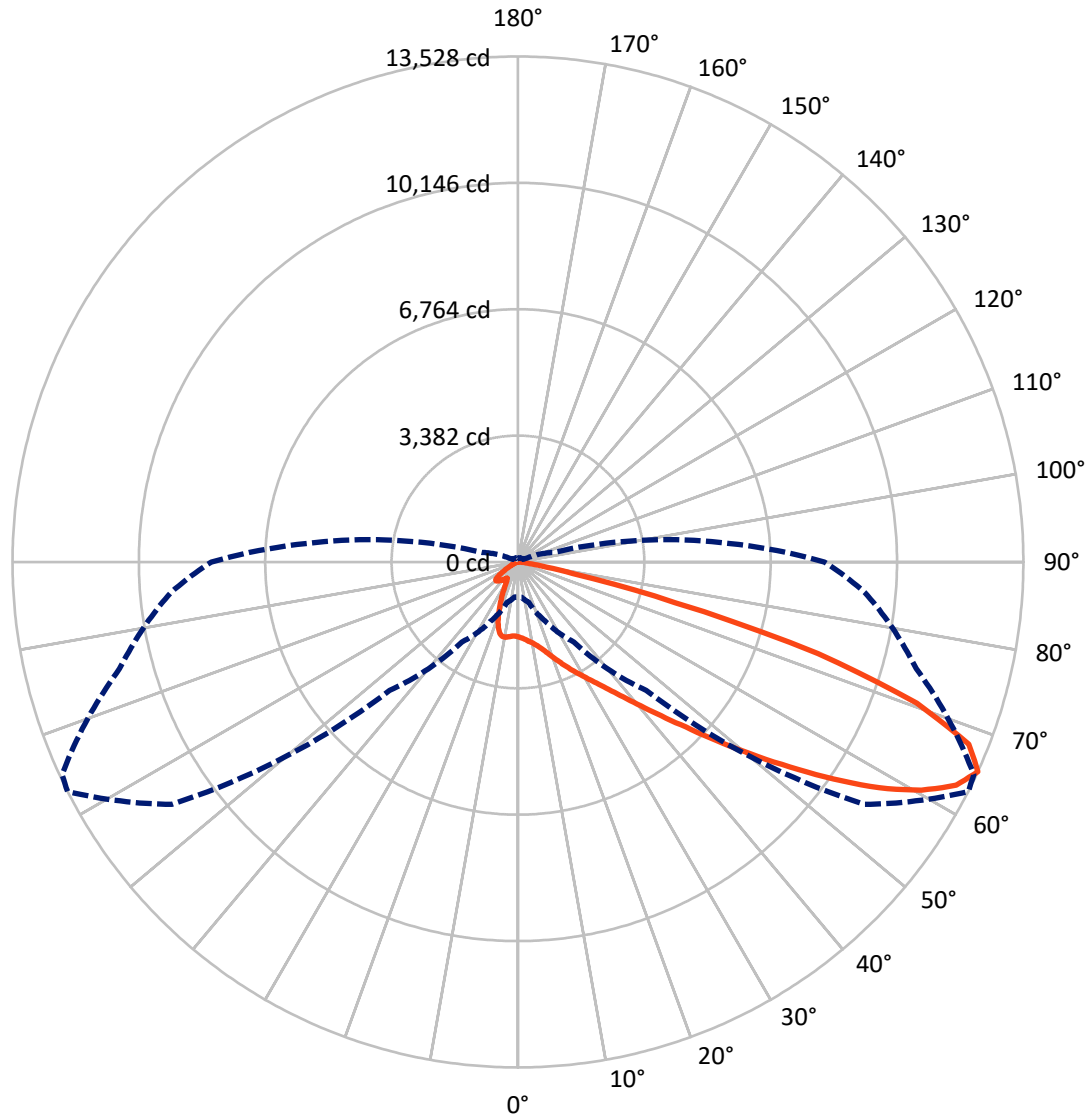
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2386.0	0.0	2386.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13846.0	0.0	13846.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	16232.0	0.0	16232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.2
10°-20°	523.7	3.2
20°-30°	911.9	5.6
30°-40°	1643.6	10.1
40°-50°	3259.9	20.1
50°-60°	4440.5	27.4
60°-70°	3544.4	21.8
70°-80°	1603.9	9.9
80°-90°	115.3	0.7
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°	16232.0	100.0
0°-180°	16232.0	100.0

Coefficient of Utilization



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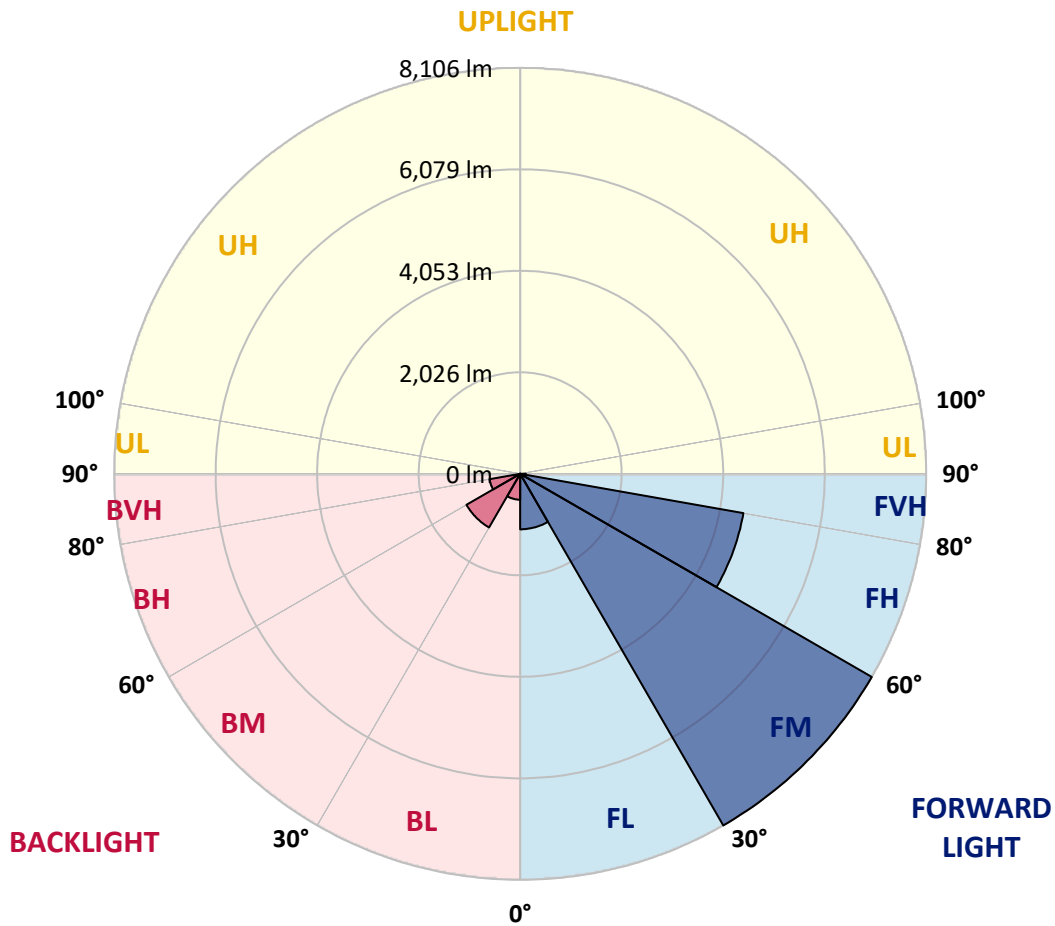
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.0	6.8			
FM (30°-60°)	8105.9	49.9			
FH (60°-80°)	4525.4	27.9			G2/5000
FVH (80°-90°)	106.7	0.7			G2/225
BL (0°-30°)	516.4	3.2	B2/1000		
BM (30°-60°)	1238.2	7.6	B2/2500		
BH (60°-80°)	622.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3
2.5°	2050.2	2044.7	2052.5	2049.1	2046.9	2042.4	2040.2	2038.0	2033.5	2030.1
5°	2055.8	2052.5	2060.3	2067.0	2073.7	2080.4	2083.7	2088.2	2083.7	2074.8
7.5°	2008.9	2006.7	2023.4	2043.5	2073.7	2099.4	2127.3	2142.9	2144.0	2140.7
10°	2005.6	2000.0	2016.7	2041.3	2080.4	2126.2	2175.3	2208.8	2213.3	2227.8
12.5°	2058.1	2052.5	2075.9	2102.7	2142.9	2190.9	2251.2	2298.1	2304.8	2324.9
15°	2146.3	2138.5	2165.3	2199.9	2251.2	2306.0	2369.6	2412.0	2417.6	2442.2
17.5°	2249.0	2241.2	2272.5	2309.3	2365.1	2440.0	2513.7	2560.6	2567.3	2582.9
20°	2380.8	2370.7	2395.3	2428.8	2488.0	2577.3	2665.5	2732.5	2731.4	2731.4
22.5°	2533.8	2518.1	2539.3	2566.1	2622.0	2730.3	2847.6	2926.8	2926.8	2895.6
25°	2697.9	2682.3	2705.7	2730.3	2779.4	2902.3	3039.6	3137.9	3142.4	3088.8
27.5°	2903.4	2883.3	2901.2	2930.2	2959.2	3084.3	3247.3	3361.2	3363.5	3280.8
30°	3298.7	3241.7	3185.9	3154.6	3168.0	3292.0	3466.2	3592.4	3603.5	3489.6
32.5°	4022.3	4011.1	3814.6	3557.8	3423.8	3515.3	3710.7	3862.6	3869.3	3723.0
35°	5146.8	5133.4	4817.4	4328.3	3891.7	3814.6	4007.8	4187.6	4183.1	4017.8
37.5°	6489.1	6476.8	6060.3	5405.9	4699.0	4266.9	4390.8	4579.5	4607.4	4390.8
40°	7635.9	7590.1	7326.6	6695.7	5771.0	5017.3	4935.8	5060.8	5089.9	4833.0
42.5°	8504.7	8465.6	8331.6	7937.4	7068.6	6127.3	5577.8	5625.9	5658.3	5350.0
45°	8954.7	8945.8	8999.4	8962.5	8390.8	7489.6	6495.8	6295.9	6308.2	5922.9
47.5°	9018.4	9013.9	9258.4	9604.6	9527.6	9026.2	7673.9	7131.2	7087.6	6569.5
50°	8643.2	8634.2	9103.2	9752.0	10286.9	10317.1	9011.7	8072.5	7976.5	7238.4
52.5°	7444.9	7442.7	8213.2	9293.1	10553.8	11447.2	10333.8	9106.6	8945.8	7946.3
55°	5728.6	5769.9	6653.2	7929.6	10066.9	11991.0	11520.9	10254.5	10007.7	8658.8
57.5°	4058.0	4118.3	4991.6	6128.4	8557.2	11669.4	12323.8	11404.7	11138.9	9369.0
60°	2179.8	2233.4	3107.7	4464.5	6366.2	10470.1	12747.0	12403.0	12151.8	10043.5
62.5°	1298.7	1316.6	1678.4	2882.2	4305.9	7998.8	12567.2	13163.5	12956.9	10609.6
65°	932.4	935.8	1117.8	1759.9	2614.2	4859.8	11306.5	13527.5	13463.9	11036.2
67.5°	785.0	782.8	858.7	1169.2	1781.1	2434.4	8665.5	13012.7	13283.0	11306.5
70°	673.4	676.7	766.0	856.5	1338.9	1378.0	4308.2	11329.9	11906.1	11377.9
72.5°	501.4	512.6	595.2	780.6	1010.6	948.1	1487.4	8400.8	9442.7	10720.2
75°	354.0	359.6	418.8	656.6	753.8	690.1	759.3	4342.8	5678.4	8218.8
77.5°	272.5	282.5	317.1	459.0	742.6	484.6	464.5	1503.1	2309.3	4964.8
80°	147.4	165.3	228.9	331.7	521.5	342.8	230.0	598.5	782.8	2321.6
82.5°	75.9	84.9	159.7	239.0	297.0	299.3	113.9	249.0	322.7	716.9
85°	30.2	36.9	107.2	131.8	153.0	147.4	51.4	100.5	116.1	198.8
87.5°	6.7	11.2	39.1	30.2	29.0	31.3	12.3	23.5	22.3	23.5
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°
2003.3	0°	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3	2003.3
2016.7	2.5°	2015.6	2011.2	1998.9	1985.5	1969.8	1960.9	1955.3	1954.2	1946.4	1940.8
2061.4	5°	2049.1	2044.7	2021.2	1993.3	1963.1	1939.7	1917.4	1897.3	1868.2	1862.6
2126.2	7.5°	2116.1	2103.8	2065.9	2027.9	1971.0	1902.8	1820.2	1725.3	1640.4	1614.7
2212.2	10°	2198.8	2182.0	2134.0	2067.0	1940.8	1755.4	1555.5	1370.2	1222.8	1181.5
2313.8	12.5°	2292.6	2278.0	2214.4	2090.4	1814.6	1478.5	1172.5	942.5	799.5	763.8
2422.1	15°	2404.2	2383.0	2294.8	2054.7	1589.0	1123.4	805.1	668.9	617.5	610.8
2546.0	17.5°	2522.6	2488.0	2366.3	1926.3	1285.3	798.4	622.0	582.9	560.6	553.9
2671.1	20°	2630.9	2586.2	2408.7	1732.0	960.4	622.0	557.2	531.5	511.4	503.6
2796.2	22.5°	2739.2	2675.6	2408.7	1467.3	720.3	551.6	511.4	488.0	464.5	454.5
2930.2	25°	2852.0	2767.1	2366.3	1172.5	579.6	505.9	467.9	442.2	422.1	409.8
3057.5	27.5°	2961.5	2844.2	2269.1	893.3	515.9	465.7	427.7	403.1	384.1	375.2
3196.0	30°	3065.3	2920.1	2132.9	677.8	474.6	426.6	390.8	369.6	350.6	341.7
3375.7	32.5°	3206.0	3016.2	1987.7	556.1	438.9	389.7	357.3	337.2	320.5	313.8
3609.1	35°	3401.4	3158.0	1862.6	546.1	408.7	359.6	327.2	308.2	291.5	285.9
3910.6	37.5°	3678.4	3386.9	1796.7	613.1	384.1	332.8	302.6	282.5	266.9	262.4
4293.7	40°	4020.1	3697.3	1832.5	680.1	367.4	309.3	280.3	260.2	246.8	241.2
4733.6	42.5°	4425.4	4080.4	2030.1	731.4	356.2	289.2	259.1	236.7	227.8	225.6
5232.8	45°	4891.1	4501.4	2332.8	786.1	338.4	270.2	237.9	221.1	214.4	213.3
5775.5	47.5°	5420.4	4963.7	2683.4	854.3	320.5	252.4	221.1	209.9	204.4	202.1
6341.7	50°	5945.2	5429.3	3044.1	892.2	306.0	235.6	207.7	198.8	194.3	193.2
6940.2	52.5°	6494.6	5908.4	3335.5	856.5	293.7	222.2	196.5	189.8	185.4	184.3
7491.8	55°	7018.4	6295.9	3385.8	727.0	269.1	208.8	184.3	180.9	175.3	175.3
8051.3	57.5°	7469.5	6490.2	3030.7	533.8	244.6	188.7	172.0	168.6	164.2	163.0
8556.1	60°	7883.8	6434.3	2339.5	359.6	217.8	168.6	156.3	154.1	149.6	144.1
8994.9	62.5°	8117.2	6188.7	1600.2	234.5	191.0	147.4	138.5	137.4	127.3	116.1
9319.9	65°	8205.4	5683.9	998.3	170.9	159.7	126.2	119.5	117.3	102.7	90.5
9504.1	67.5°	8128.4	4853.1	503.6	135.1	126.2	105.0	98.3	98.3	88.2	77.1
9493.0	70°	7820.2	3638.2	212.2	108.3	97.2	80.4	80.4	84.9	74.8	62.5
9000.5	72.5°	7151.3	2447.8	112.8	82.6	72.6	57.0	65.9	69.2	59.2	46.9
7366.8	75°	5685.1	1493.0	78.2	61.4	45.8	40.2	50.3	52.5	40.2	31.3
5050.8	77.5°	3888.3	857.6	52.5	39.1	29.0	23.5	34.6	32.4	21.2	14.5
1947.5	80°	1707.4	357.3	30.2	17.9	11.2	8.9	12.3	8.9	6.7	4.5
266.9	82.5°	199.9	83.8	11.2	6.7	4.5	2.2	1.1	0.0	0.0	0.0
81.5	85°	41.3	10.1	5.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0
14.5	87.5°	7.8	2.2	1.1	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

180°
2003.3
1946.4
1860.4
1602.4
1165.8
753.8
604.1
550.5
499.2
448.9
405.4
375.2
342.8
313.8
285.9
261.3
240.1
225.6
212.2
202.1
193.2
184.3
174.2
161.9
142.9
113.9
89.3
75.9
61.4
46.9
30.2
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4.5
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