

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: P957506

Luminaire Tested: **GALN-SB9D-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70515 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

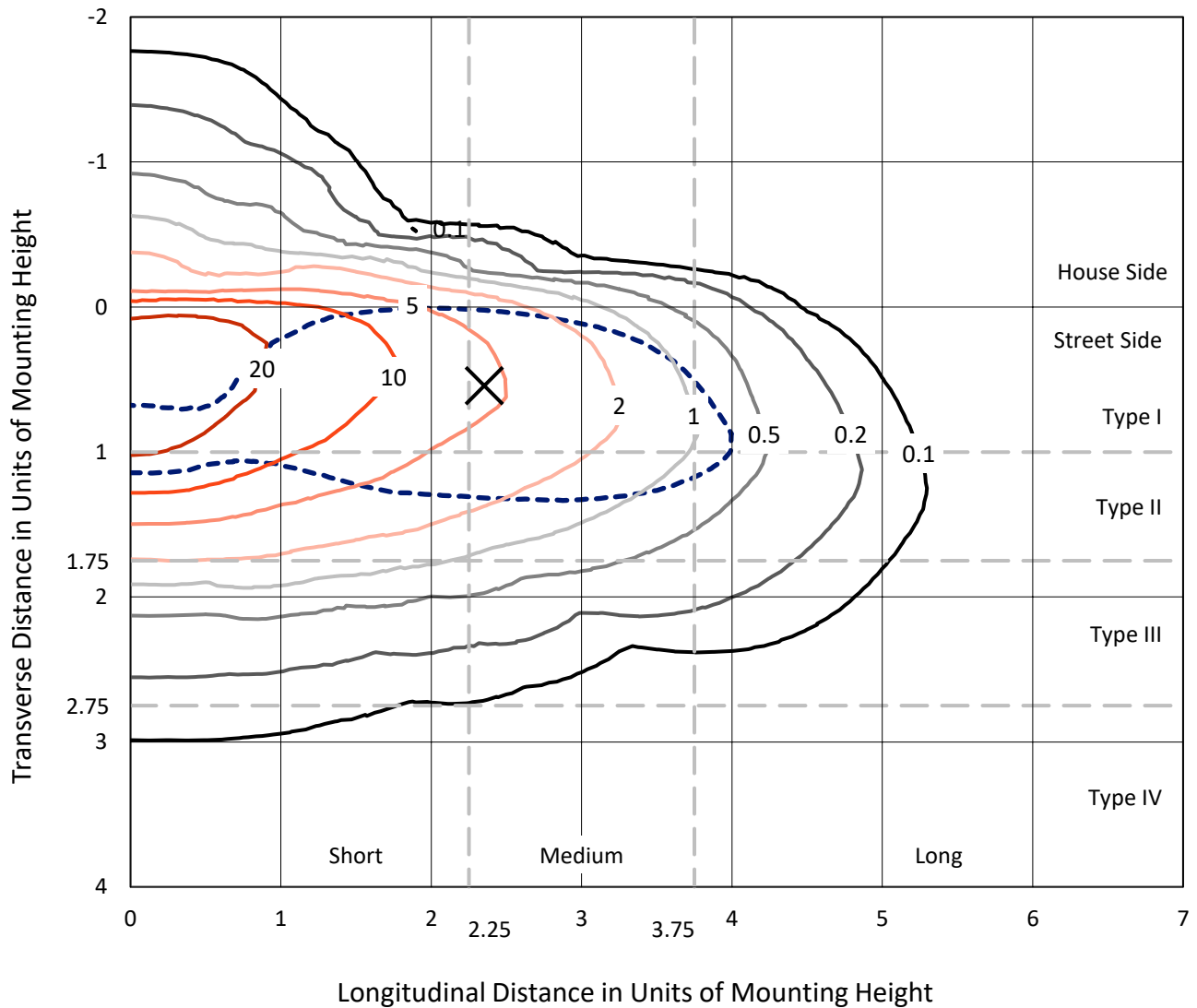
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

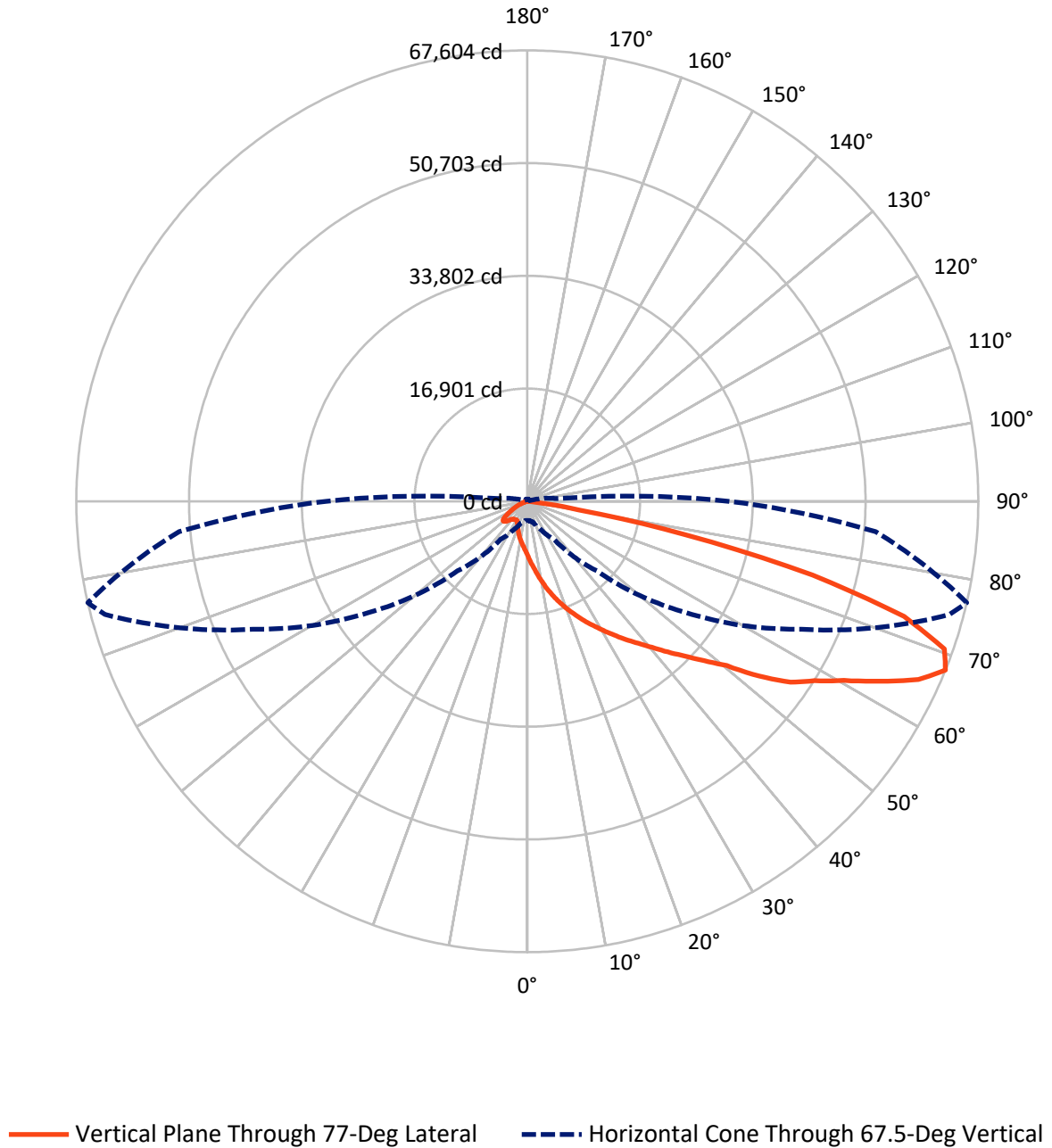
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.4 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	5187.8	0.0	5187.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	65327.2	0.0	65327.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	70515.0	0.0	70515.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.9	1.2
10°-20°	2906.4	4.1
20°-30°	5608.5	8.0
30°-40°	9736.7	13.8
40°-50°	14137.1	20.0
50°-60°	16234.7	23.0
60°-70°	14094.7	20.0
70°-80°	6638.8	9.4
80°-90°	328.3	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°	70515.0	100.0
0°-180°	70515.0	100.0

Coefficient of Utilization

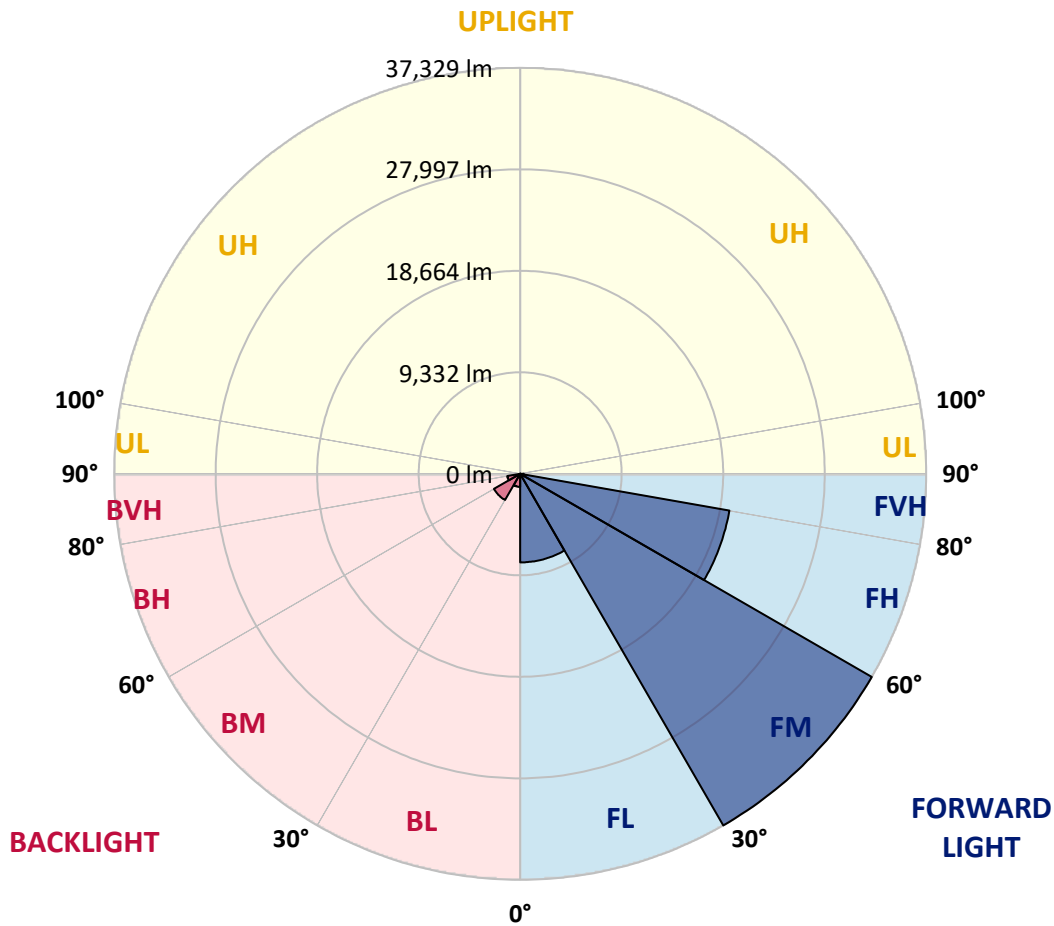


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8143.7	11.5			
FM (30°-60°)	37328.7	52.9			
FH (60°-80°)	19532.5	27.7			G5
FVH (80°-90°)	322.3	0.5			G3/500
BL (0°-30°)	1201.1	1.7	B3/2500		
BM (30°-60°)	2779.7	3.9	B3/5000		
BH (60°-80°)	1201.0	1.7	B3/2500		G3/2500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4
2.5°	11257.9	11327.9	11227.2	11034.6	10745.6	10557.3	10097.5	9664.0	9182.3	9029.1
5°	13723.1	13784.4	13670.6	13460.4	13075.1	12707.3	12103.0	11196.6	10255.1	9953.0
7.5°	15549.1	15584.1	15540.3	15347.7	14979.8	14563.9	13889.5	12816.7	11419.9	11087.1
10°	16862.7	16976.6	16963.4	16889.0	16643.8	16306.6	15588.5	14366.8	12724.8	12295.6
12.5°	17734.1	17861.1	17935.5	18101.9	18088.8	17874.2	17243.7	15951.9	14025.3	13521.7
15°	17988.1	18123.8	18408.4	18793.8	19135.3	19244.8	18802.5	17506.4	15457.1	14813.5
17.5°	17843.6	18053.8	18395.3	19004.0	19752.7	20247.5	20199.4	19008.3	16757.6	16022.0
20°	18163.2	18364.7	18631.8	19144.1	20015.5	20913.1	21272.2	20444.6	18049.4	17278.7
22.5°	19932.3	19897.2	19923.5	20006.7	20527.8	21416.7	22156.7	21749.5	19328.0	18539.8
25°	22734.7	22577.0	22309.9	21858.9	21727.6	22156.7	22927.4	22905.5	20676.7	19831.5
27.5°	25948.7	25922.4	25296.3	24210.3	23597.3	23430.9	23798.7	24030.8	22012.2	21110.2
30°	29027.0	29097.1	28252.0	27043.4	25918.1	25265.6	24932.8	25099.2	23369.6	22489.5
32.5°	31706.8	31781.3	30861.7	29447.4	28054.9	27266.7	26566.1	26154.5	24849.6	23890.7
35°	33970.7	34045.1	32989.8	31426.6	29942.2	29228.4	28435.9	27310.5	26338.4	25445.2
37.5°	35993.7	35971.8	34557.4	32981.1	31522.9	30958.1	30542.1	28733.6	27871.0	27008.4
40°	37189.1	37281.0	36072.5	34334.1	32919.8	32508.1	32481.9	30498.3	29640.0	28803.7
42.5°	37539.4	37701.4	36825.6	35398.2	34115.2	33668.5	34356.0	32407.4	31698.1	30883.6
45°	36908.8	37066.5	36668.0	35678.4	34929.6	34640.6	35967.4	34386.7	33896.2	33090.5
47.5°	35069.7	35266.8	35363.1	35152.9	35144.2	35437.6	37412.4	36471.0	36506.0	35682.8
50°	31509.8	31842.6	32727.1	33471.5	34623.1	36068.1	38818.0	38730.4	39448.5	38739.2
52.5°	25037.9	25510.8	28558.5	30594.6	33182.5	35949.9	40363.7	42356.1	44611.1	43573.4
55°	20120.5	20120.5	22598.9	26408.5	30371.3	35170.5	41038.0	44711.8	48127.3	47882.1
57.5°	16403.0	16600.0	18180.7	21548.0	26303.4	33313.8	41454.0	46191.9	50960.4	50780.8
60°	10123.8	10548.5	13534.8	16858.3	21675.0	30007.9	41191.3	47689.4	54397.7	54542.2
62.5°	5701.2	5858.8	7190.0	12129.3	16854.0	25563.4	39181.4	48525.8	58794.0	59407.1
65°	3936.5	4015.4	4527.7	7549.0	11682.6	20352.6	35253.7	48004.7	63199.1	64438.3
67.5°	2859.4	2898.8	3218.4	4610.9	6931.6	14756.5	29097.1	45377.4	65533.0	67604.2
70°	2198.2	2224.4	2456.5	3030.1	4094.2	9107.9	21132.0	40153.5	63842.8	66316.8
72.5°	1786.5	1812.8	1992.4	2241.9	2714.9	5385.9	12808.0	32608.9	56381.3	59052.4
75°	1506.3	1541.3	1703.3	1865.4	2128.1	3459.2	6007.7	22708.4	42399.8	44151.4
77.5°	836.3	770.7	1383.7	1545.7	1795.3	2189.4	2811.2	13364.1	23746.2	24232.2
80°	521.1	538.6	1099.1	1243.6	1379.3	1103.5	1287.4	5145.1	8232.1	7820.5
82.5°	30.7	70.1	845.1	897.7	945.8	472.9	486.0	1747.1	1983.6	1821.6
85°	0.0	0.0	385.3	310.9	328.4	135.7	140.1	407.2	267.1	289.0
87.5°	0.0	0.0	0.0	8.8	0.0	13.1	26.3	35.0	13.1	17.5
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°
8131.4	0°	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4	8131.4
8547.4	2.5°	8240.9	7934.4	7312.6	6703.9	6209.1	5749.4	5420.9	5110.0	4952.4	4943.7
9099.1	5°	8490.5	7846.8	6603.2	5504.1	4619.6	3910.3	3450.5	3122.1	2955.7	2898.8
9777.8	7.5°	8840.8	7873.1	5981.4	4453.2	3411.1	2802.4	2539.7	2434.6	2399.6	2360.2
10544.1	10°	9283.0	7934.4	5425.3	3586.2	2688.6	2382.1	2277.0	2233.2	2206.9	2180.6
11406.8	12.5°	9777.8	7991.3	4873.6	2977.6	2364.5	2206.9	2132.5	2079.9	2044.9	2014.2
12291.3	15°	10259.5	8026.3	4300.0	2552.8	2198.2	2071.2	1992.4	1935.4	1887.3	1852.2
13158.3	17.5°	10736.8	8074.5	3761.4	2298.9	2062.4	1935.4	1856.6	1786.5	1747.1	1707.7
14069.1	20°	11266.6	8065.7	3253.4	2119.3	1926.7	1799.7	1716.5	1650.8	1611.4	1567.6
15032.4	22.5°	11757.1	8021.9	2806.8	1966.1	1786.5	1663.9	1572.0	1506.3	1466.9	1431.9
16017.6	25°	12321.9	7986.9	2434.6	1826.0	1655.2	1532.6	1431.9	1370.6	1326.8	1296.1
17007.2	27.5°	12864.9	7934.4	2163.1	1699.0	1528.2	1410.0	1313.6	1243.6	1204.2	1182.3
18027.5	30°	13399.1	7921.2	2062.4	1576.4	1414.3	1296.1	1199.8	1134.1	1103.5	1094.7
19148.5	32.5°	14042.8	7956.3	2106.2	1532.6	1309.3	1191.0	1099.1	1050.9	1020.3	1020.3
20396.4	35°	14730.3	7947.5	2171.9	1572.0	1239.2	1085.9	1015.9	985.2	954.6	954.6
21780.1	37.5°	15592.9	7960.6	2224.4	1637.7	1212.9	998.4	959.0	919.5	902.0	902.0
23295.2	40°	16880.2	8394.1	2198.2	1694.6	1204.2	937.1	858.2	845.1	832.0	832.0
25007.3	42.5°	18456.6	9335.6	2233.2	1699.0	1199.8	893.3	788.2	814.5	783.8	779.4
26938.3	45°	20181.9	10364.6	2456.5	1607.0	1195.4	871.4	753.2	783.8	735.6	735.6
29175.9	47.5°	21894.0	11384.9	2684.2	1475.7	1182.3	867.0	722.5	705.0	691.8	696.2
32092.2	50°	24254.1	12216.8	2771.8	1296.1	1151.6	858.2	665.6	670.0	661.2	670.0
36203.8	52.5°	26824.5	12392.0	2666.7	1094.7	1064.0	832.0	626.2	643.7	639.3	648.1
39098.2	55°	28427.1	12203.7	2202.5	910.8	928.3	726.9	586.8	621.8	621.8	621.8
41926.9	57.5°	30082.3	11402.4	1563.2	740.0	770.7	595.5	551.7	599.9	595.5	591.1
45333.6	60°	31273.3	10106.3	1029.0	608.7	613.0	490.4	512.3	564.9	560.5	538.6
48845.4	62.5°	32162.2	8674.4	661.2	516.7	468.5	442.3	468.5	512.3	494.8	446.6
51823.0	65°	32061.5	6690.8	507.9	442.3	385.3	385.3	407.2	446.6	394.1	315.3
52392.2	67.5°	30191.8	4527.7	420.4	372.2	324.0	319.7	337.2	372.2	337.2	267.1
49476.0	70°	26850.8	2960.1	337.2	289.0	258.3	236.5	271.5	319.7	284.6	214.6
42119.6	72.5°	21793.2	1804.1	254.0	210.2	188.3	153.3	214.6	262.7	227.7	157.6
29289.7	75°	14099.7	919.5	175.2	135.7	100.7	92.0	157.6	197.0	157.6	96.3
12996.3	77.5°	5394.7	385.3	96.3	61.3	52.5	43.8	87.6	118.2	65.7	21.9
2517.8	80°	1037.8	162.0	48.2	30.7	26.3	17.5	13.1	8.8	0.0	0.0
446.6	82.5°	179.5	52.5	17.5	8.8	0.0	0.0	0.0	0.0	0.0	0.0
87.6	85°	61.3	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.7	87.5°	21.9	0.0	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

<u>180°</u>
8131.4
4934.9
2890.0
2351.4
2171.9
2005.5
1847.9
1703.3
1563.2
1427.5
1291.7
1182.3
1090.3
1020.3
954.6
902.0
832.0
775.0
735.6
696.2
670.0
648.1
621.8
591.1
538.6
437.9
306.5
258.3
205.8
148.9
83.2
17.5
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