

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: P957424

Luminaire Tested: **GALN-SB9D-740-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957424  
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-SB9D-740-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

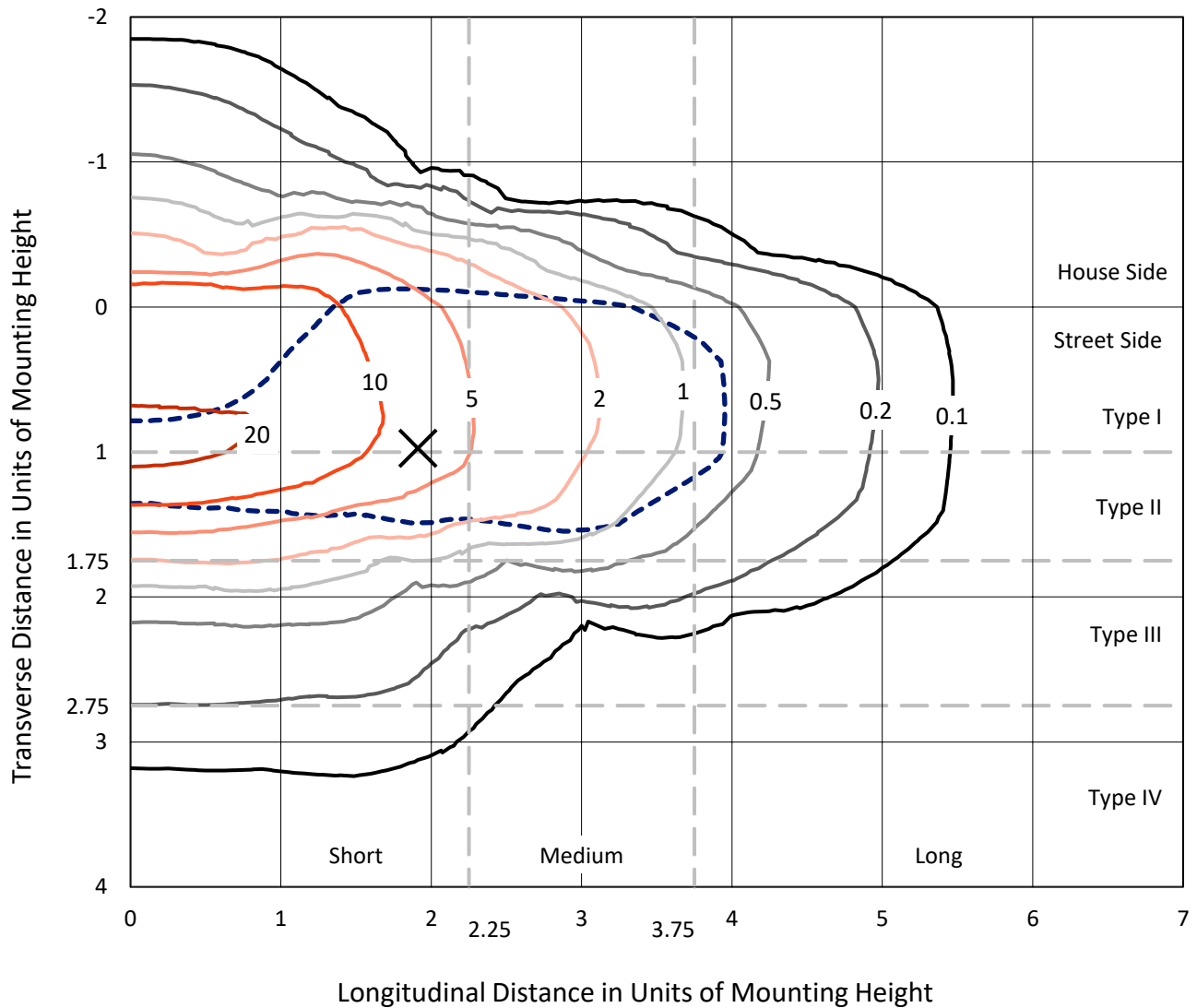
Lumens per Lamp: N/A  
Luminaire Lumens: 74942 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

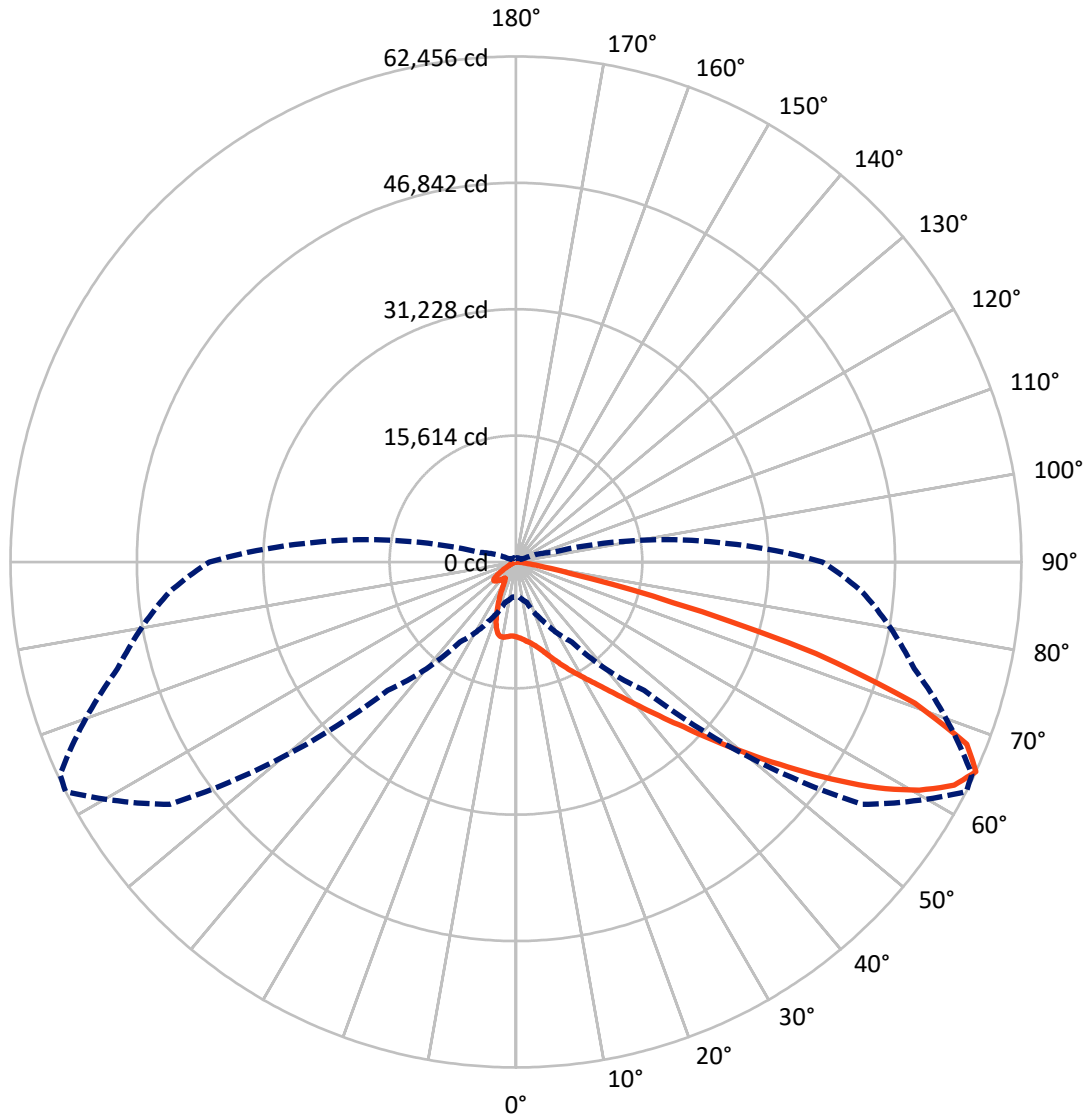
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 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
<b>House Side</b>	Lumens	11015.9	0.0	11015.9
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	63926.1	0.0	63926.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	74942.0	0.0	74942.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	871.5	1.2
10°-20°	2418.0	3.2
20°-30°	4210.3	5.6
30°-40°	7588.6	10.1
40°-50°	15050.6	20.1
50°-60°	20501.5	27.4
60°-70°	16364.1	21.8
70°-80°	7405.1	9.9
80°-90°	532.3	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°	74942.0	100.0
0°-180°	74942.0	100.0

**Coefficient of Utilization**



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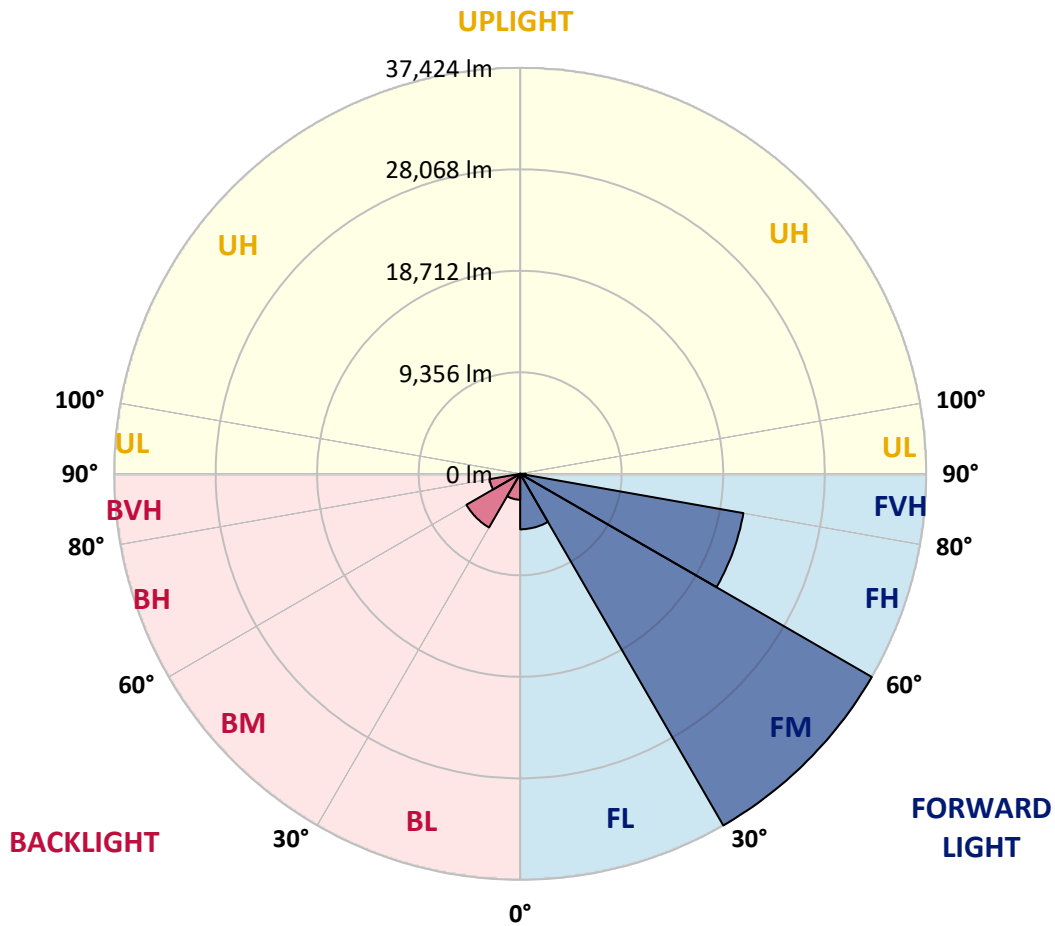
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5115.7	6.8			
FM (30°-60°)	37424.2	49.9			
FH (60°-80°)	20893.5	27.9			G5
FVH (80°-90°)	492.8	0.7			G3/500
BL (0°-30°)	2384.0	3.2	B3/2500		
BM (30°-60°)	5716.6	7.6	B4/8500		
BH (60°-80°)	2875.8	3.8	B4/5000		G4/5000
BVH (80°-90°)	39.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3
2.5°	9465.8	9440.0	9476.1	9460.6	9450.3	9429.7	9419.4	9409.1	9388.5	9373.0
5°	9491.6	9476.1	9512.2	9543.1	9574.1	9605.0	9620.5	9641.1	9620.5	9579.2
7.5°	9275.0	9264.7	9342.1	9434.9	9574.1	9692.6	9821.5	9893.7	9898.9	9883.4
10°	9259.6	9233.8	9311.1	9424.6	9605.0	9816.4	10043.2	10197.9	10218.5	10285.5
12.5°	9501.9	9476.1	9584.4	9708.1	9893.7	10115.4	10393.8	10610.4	10641.3	10734.1
15°	9909.2	9873.1	9996.8	10156.7	10393.8	10646.4	10940.3	11136.2	11162.0	11275.4
17.5°	10383.5	10347.4	10491.8	10661.9	10919.7	11265.1	11605.4	11821.9	11852.9	11925.0
20°	10991.9	10945.5	11058.9	11213.6	11486.8	11899.3	12306.6	12615.9	12610.8	12610.8
22.5°	11698.2	11626.0	11724.0	11847.7	12105.5	12605.6	13146.9	13513.0	13513.0	13368.6
25°	12456.1	12383.9	12492.2	12605.6	12832.4	13399.6	14033.7	14487.4	14508.0	14260.6
27.5°	13404.7	13311.9	13394.4	13528.5	13662.5	14239.9	14992.7	15518.5	15528.9	15147.3
30°	15229.8	14966.9	14709.1	14564.7	14626.6	15198.9	16003.2	16585.8	16637.3	16111.4
32.5°	18570.7	18519.1	17611.7	16425.9	15807.3	16230.0	17132.3	17833.4	17864.4	17189.0
35°	23762.4	23700.6	22241.5	19983.3	17967.5	17611.7	18503.7	19333.7	19313.1	18550.1
37.5°	29959.6	29902.8	27979.8	24958.6	21695.0	19699.8	20272.1	21143.4	21272.3	20272.1
40°	35254.4	35043.0	33826.3	30913.4	26644.5	23164.4	22788.0	23365.5	23499.5	22313.7
42.5°	39265.5	39085.1	38466.4	36646.5	32635.3	28289.1	25752.5	25974.2	26123.7	24700.8
45°	41343.3	41302.0	41549.5	41379.3	38739.6	34579.0	29990.5	29067.6	29124.3	27345.6
47.5°	41637.1	41616.5	42745.6	44343.9	43988.1	41673.2	35429.7	32924.1	32723.0	30330.8
50°	39904.8	39863.6	42029.0	45024.4	47494.0	47633.2	41606.2	37270.3	36826.9	33419.0
52.5°	34372.8	34362.5	37919.9	42905.4	48726.2	52850.7	47710.5	42044.4	41302.0	36687.7
55°	26448.5	26639.3	30717.4	36610.4	46478.3	55361.5	53191.0	47344.5	46205.0	39977.0
57.5°	18735.7	19014.1	23045.8	28294.3	39507.8	53876.7	56897.9	52654.8	51427.7	43256.0
60°	10063.9	10311.3	14348.2	20612.3	29392.4	48339.5	58851.9	57263.9	56103.9	46370.0
62.5°	5996.0	6078.5	7749.0	13306.8	19880.2	36930.0	58021.8	60775.0	59821.2	48984.0
65°	4305.0	4320.4	5160.8	8125.3	12069.4	22437.4	52201.1	62455.7	62161.8	50953.4
67.5°	3624.4	3614.1	3964.7	5398.0	8223.3	11239.3	40007.9	60078.9	61326.6	52201.1
70°	3108.9	3124.3	3536.8	3954.4	6181.6	6362.1	19890.5	52309.4	54969.7	52531.0
72.5°	2314.9	2366.4	2748.0	3603.8	4665.9	4377.2	6867.3	38786.1	43596.3	49494.4
75°	1634.3	1660.1	1933.4	3031.5	3480.1	3186.2	3505.9	20050.4	26216.5	37945.7
77.5°	1258.0	1304.4	1464.2	2119.0	3428.5	2237.6	2144.8	6939.5	10661.9	22922.1
80°	680.5	763.0	1056.9	1531.2	2407.7	1582.8	1062.1	2763.4	3614.1	10718.6
82.5°	350.6	391.8	737.3	1103.3	1371.4	1381.7	525.9	1149.7	1490.0	3309.9
85°	139.2	170.1	494.9	608.4	706.3	680.5	237.2	464.0	536.2	917.7
87.5°	30.9	51.6	180.4	139.2	134.0	144.4	56.7	108.3	103.1	108.3
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°
9249.3	0°	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3	9249.3
9311.1	2.5°	9306.0	9285.3	9228.6	9166.8	9094.6	9053.3	9027.6	9022.4	8986.3	8960.5
9517.4	5°	9460.6	9440.0	9331.7	9202.9	9063.7	8955.4	8852.3	8759.5	8625.4	8599.6
9816.4	7.5°	9770.0	9713.3	9538.0	9362.7	9099.7	8785.2	8403.7	7965.5	7573.7	7455.1
10213.4	10°	10151.5	10074.2	9852.5	9543.1	8960.5	8104.7	7181.8	6326.0	5645.5	5454.7
10682.5	12.5°	10584.6	10517.6	10223.7	9651.4	8378.0	6826.1	5413.4	4351.4	3691.5	3526.5
11182.6	15°	11100.1	11002.2	10594.9	9486.4	7336.5	5186.6	3717.2	3088.2	2851.1	2820.1
11754.9	17.5°	11646.6	11486.8	10924.8	8893.5	5934.2	3686.3	2871.7	2691.3	2588.1	2557.2
12332.3	20°	12146.7	11940.5	11120.8	7996.4	4433.9	2871.7	2572.7	2454.1	2361.3	2325.2
12909.8	22.5°	12646.8	12353.0	11120.8	6774.5	3325.4	2546.9	2361.3	2253.0	2144.8	2098.4
13528.5	25°	13167.6	12775.7	10924.8	5413.4	2675.8	2335.5	2160.2	2041.6	1948.8	1892.1
14116.2	27.5°	13672.8	13131.5	10476.3	4124.5	2381.9	2149.9	1974.6	1861.2	1773.5	1732.3
14755.5	30°	14152.3	13482.1	9847.3	3129.5	2191.2	1969.5	1804.5	1706.5	1618.9	1577.6
15585.6	32.5°	14801.9	13925.4	9177.1	2567.5	2026.2	1799.3	1649.8	1557.0	1479.7	1448.7
16663.1	35°	15704.1	14580.2	8599.6	2521.1	1887.0	1660.1	1510.6	1423.0	1345.6	1319.8
18055.1	37.5°	16982.8	15637.1	8295.5	2830.5	1773.5	1536.4	1397.2	1304.4	1232.2	1211.6
19823.5	40°	18560.4	17070.4	8460.4	3139.8	1696.2	1428.1	1294.1	1201.3	1139.4	1113.6
21854.9	42.5°	20431.9	18838.8	9373.0	3377.0	1644.7	1335.3	1196.1	1093.0	1051.8	1041.4
24159.4	45°	22581.8	20782.5	10770.2	3629.6	1562.2	1247.7	1098.2	1020.8	989.9	984.7
26665.1	47.5°	25025.6	22916.9	12389.1	3944.1	1479.7	1165.2	1020.8	969.3	943.5	933.2
29279.0	50°	27448.7	25066.8	14054.3	4119.4	1412.7	1087.8	959.0	917.7	897.1	891.9
32042.4	52.5°	29985.3	27278.6	15400.0	3954.4	1355.9	1026.0	907.4	876.5	855.8	850.7
34589.3	55°	32403.3	29067.6	15632.0	3356.3	1242.5	964.1	850.7	835.2	809.4	809.4
37172.3	57.5°	34486.2	29964.7	13992.5	2464.4	1129.1	871.3	794.0	778.5	757.9	752.7
39502.7	60°	36399.0	29706.9	10801.1	1660.1	1005.4	778.5	721.8	711.5	690.9	665.1
41528.9	62.5°	37476.5	28572.7	7388.1	1082.7	881.6	680.5	639.3	634.1	587.7	536.2
43029.2	65°	37883.8	26242.3	4609.2	788.8	737.3	582.6	551.7	541.3	474.3	417.6
43879.8	67.5°	37528.1	22406.5	2325.2	623.8	582.6	484.6	453.7	453.7	407.3	355.7
43828.3	70°	36105.1	16797.1	979.6	500.1	448.5	371.2	371.2	391.8	345.4	288.7
41554.6	72.5°	33016.9	11301.2	520.7	381.5	335.1	262.9	304.2	319.7	273.3	216.5
34011.9	75°	26247.5	6893.1	360.9	283.6	211.4	185.6	232.0	242.3	185.6	144.4
23319.1	77.5°	17952.0	3959.5	242.3	180.4	134.0	108.3	159.8	149.5	98.0	67.0
8991.5	80°	7883.0	1649.8	139.2	82.5	51.6	41.2	56.7	41.2	30.9	20.6
1232.2	82.5°	922.9	386.7	51.6	30.9	20.6	10.3	5.2	0.0	0.0	0.0
376.4	85°	190.8	46.4	25.8	10.3	5.2	0.0	0.0	0.0	0.0	0.0
67.0	87.5°	36.1	10.3	5.2	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>
9249.3
8986.3
8589.3
7398.4
5382.5
3480.1
2789.2
2541.7
2304.6
2072.6
1871.5
1732.3
1582.8
1448.7
1319.8
1206.4
1108.5
1041.4
979.6
933.2
891.9
850.7
804.3
747.6
659.9
525.9
412.5
350.6
283.6
216.5
139.2
72.2
20.6
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