

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: P951863

Luminaire Tested: **GALN-SB5D-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

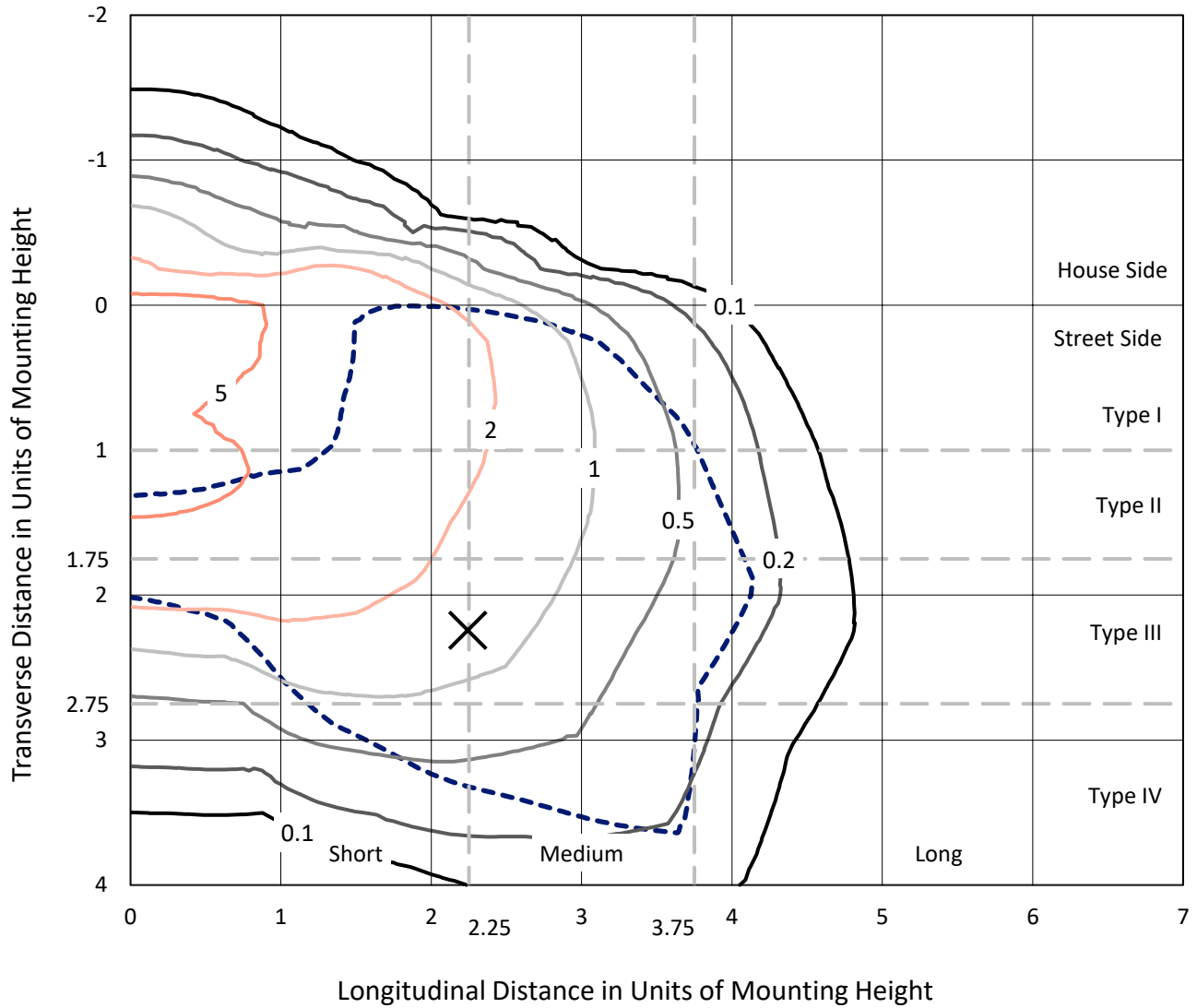
Lumens per Lamp: N/A  
Luminaire Lumens: 37874 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

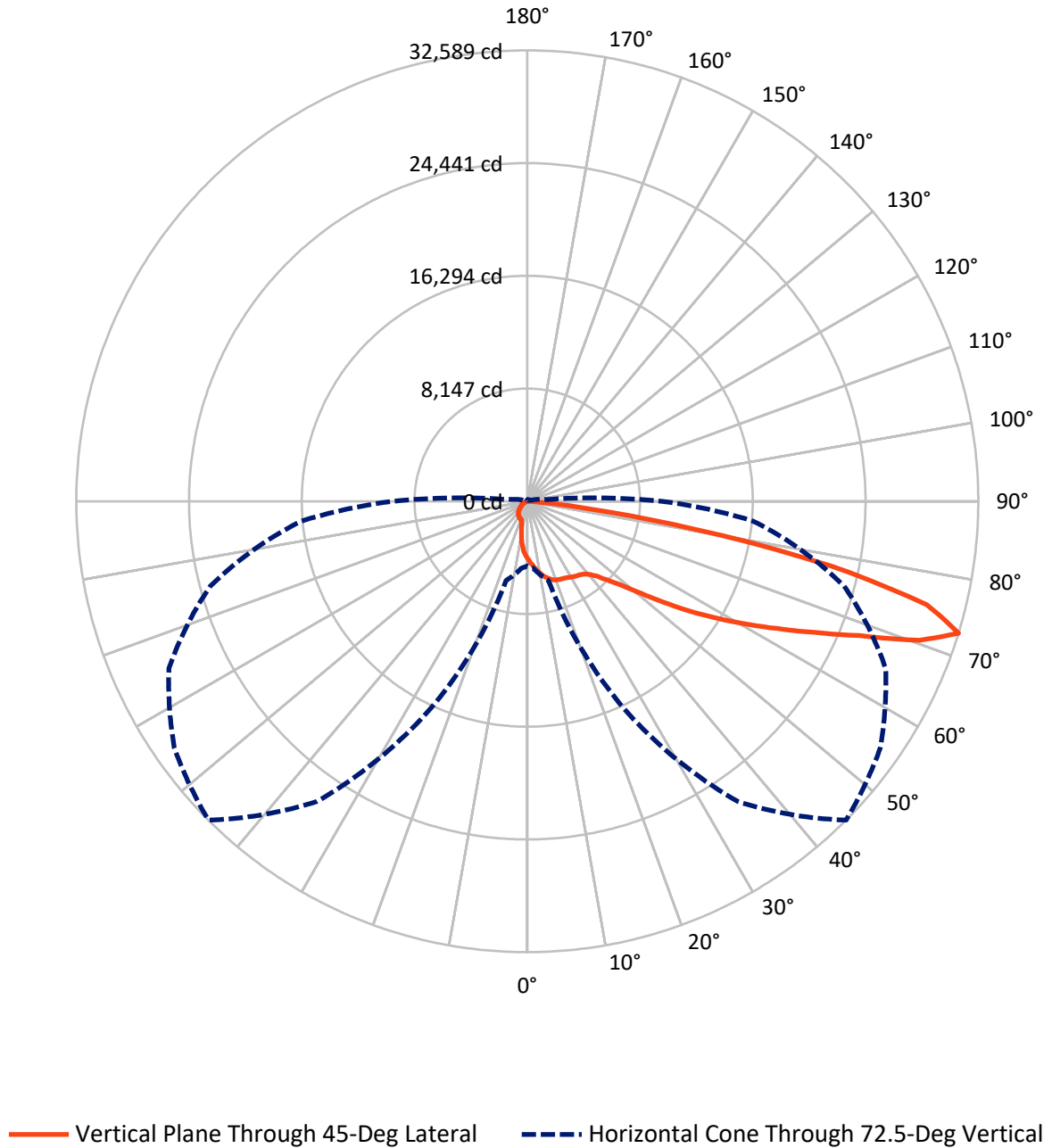
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3979.5	0.0	3979.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	33894.5	0.0	33894.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	37874.0	0.0	37874.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.9	1.0
10°-20°	1142.5	3.0
20°-30°	1876.2	5.0
30°-40°	2660.9	7.0
40°-50°	4398.3	11.6
50°-60°	7901.0	20.9
60°-70°	10970.9	29.0
70°-80°	7957.9	21.0
80°-90°	575.3	1.5
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°	37874.0	100.0
0°-180°	37874.0	100.0

**Coefficient of Utilization**



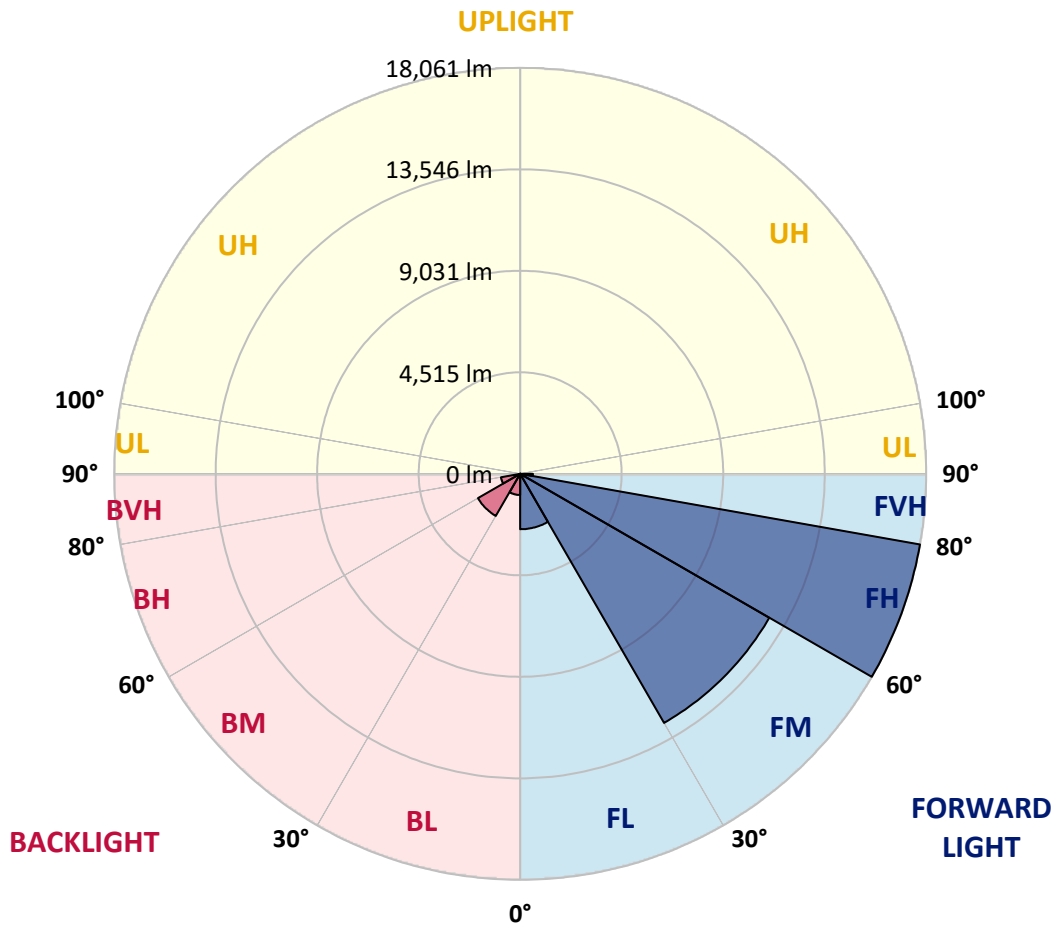
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.1	6.5			
FM (30°-60°)	12795.9	33.8			
FH (60°-80°)	18061.0	47.7			G5
FVH (80°-90°)	570.5	1.5			G4/750
BL (0°-30°)	942.6	2.5	B2/1000		
BM (30°-60°)	2164.3	5.7	B2/2500		
BH (60°-80°)	867.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.8	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2
2.5°	4531.8	4539.5	4534.4	4503.3	4451.6	4423.2	4407.7	4356.0	4322.4	4262.9
5°	4948.0	4979.0	4960.9	4898.9	4800.6	4730.8	4710.2	4604.2	4508.5	4397.4
7.5°	5390.1	5405.6	5372.0	5291.8	5160.0	5041.1	5023.0	4875.6	4723.1	4552.5
10°	5772.7	5790.8	5739.0	5622.7	5472.8	5325.4	5299.6	5136.7	4955.7	4746.3
12.5°	6093.2	6111.3	6044.1	5904.5	5739.0	5586.5	5560.7	5390.1	5191.0	4958.3
15°	6336.2	6369.8	6279.3	6129.4	5951.0	5798.5	5785.6	5617.5	5423.7	5165.1
17.5°	6478.4	6512.0	6426.7	6245.7	6093.2	5964.0	5948.4	5808.8	5627.9	5379.7
20°	6501.7	6532.7	6442.2	6284.5	6157.8	6054.4	6046.7	5945.9	5814.0	5576.2
22.5°	6431.9	6470.6	6387.9	6261.3	6173.4	6119.1	6108.7	6051.9	5976.9	5775.2
25°	6359.5	6390.5	6328.5	6217.3	6170.8	6165.6	6173.4	6163.0	6147.5	5976.9
27.5°	6354.3	6387.9	6318.1	6212.1	6186.3	6240.6	6248.3	6297.4	6310.4	6160.4
30°	6398.3	6421.5	6354.3	6243.2	6230.2	6354.3	6356.9	6444.8	6465.5	6315.5
32.5°	6493.9	6519.8	6452.6	6289.7	6271.6	6444.8	6452.6	6568.9	6602.5	6481.0
35°	6718.8	6749.8	6672.3	6418.9	6354.3	6530.1	6553.4	6690.4	6757.6	6656.8
37.5°	7279.8	7189.3	7083.3	6680.0	6543.0	6664.5	6703.3	6863.6	6982.5	6866.2
40°	8673.2	8388.8	8057.9	7124.7	6873.9	6951.5	6982.5	7142.8	7305.7	7191.9
42.5°	10764.6	10428.5	9896.0	8148.4	7372.9	7411.6	7434.9	7574.5	7804.6	7714.1
45°	12628.5	12507.0	11964.1	9896.0	8306.1	8114.8	8143.2	8215.6	8554.3	8520.7
47.5°	14060.7	13990.9	13572.1	11902.1	9883.1	8975.7	9055.8	9089.4	9578.0	9696.9
50°	15161.9	15136.1	14761.2	13685.8	11943.4	10245.0	10273.4	10201.0	10932.6	11227.3
52.5°	16201.2	16289.1	16012.5	15342.9	14143.4	11907.2	11902.1	11560.8	12548.4	12993.0
55°	17139.6	17170.6	17199.1	17033.6	16356.3	13799.6	13750.5	13192.1	14422.6	14882.7
57.5°	18021.1	18034.1	18287.4	18626.1	18659.7	15831.5	15741.0	15071.5	16470.0	16798.4
60°	18613.1	18672.6	19207.7	20148.7	20559.8	17928.1	17878.9	17196.5	18553.7	18706.2
62.5°	17760.0	18122.0	19471.4	21337.9	22353.9	20252.1	20228.9	19587.7	20745.9	20621.8
65°	14376.1	14988.7	17361.9	22141.9	24114.3	22847.6	22881.2	22198.7	22997.6	22594.3
67.5°	10056.3	10702.6	13510.0	22206.5	26081.7	25895.5	26089.4	25019.2	25388.8	24484.0
70°	6954.1	7287.6	9115.3	20815.7	27614.6	30093.8	30088.6	28483.3	27767.2	25344.9
72.5°	4676.5	4849.8	5920.0	16514.0	26487.5	32588.5	32438.6	31130.5	28568.6	23703.3
75°	1972.5	2099.1	2740.3	9280.7	20955.3	29814.6	29408.7	27511.2	25383.7	18664.8
77.5°	625.6	679.9	1080.6	3321.9	11542.7	22410.7	21981.6	17181.0	17012.9	9363.4
80°	297.3	346.4	607.5	1333.9	4542.1	12189.0	12129.6	7794.2	7318.6	2528.3
82.5°	129.3	152.5	336.1	713.5	2031.9	4348.2	4436.1	2652.4	2194.8	959.1
85°	41.4	54.3	155.1	328.3	858.3	1080.6	1067.7	630.8	884.1	522.2
87.5°	0.0	0.0	51.7	75.0	87.9	62.0	69.8	54.3	245.6	144.8
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°
4149.2	0°	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2
4200.9	2.5°	4169.9	4128.5	4056.1	3988.9	3929.4	3870.0	3833.8	3782.1	3776.9	3776.9
4268.1	5°	4198.3	4131.1	4001.8	3864.8	3707.1	3557.2	3407.2	3262.5	3215.9	3182.3
4376.7	7.5°	4281.0	4175.0	3970.8	3709.7	3409.8	3081.5	2851.4	2603.3	2507.6	2455.9
4521.4	10°	4399.9	4255.2	3944.9	3487.4	3001.4	2554.1	2225.8	1957.0	1853.6	1809.6
4679.1	12.5°	4531.8	4353.4	3898.4	3210.8	2554.1	2019.0	1698.4	1574.4	1558.8	1558.8
4867.9	15°	4689.5	4472.3	3818.3	2885.0	2086.2	1597.6	1483.9	1489.1	1504.6	1514.9
5051.4	17.5°	4852.3	4599.0	3691.6	2520.5	1672.6	1437.3	1439.9	1447.7	1460.6	1471.0
5250.5	20°	5028.1	4725.7	3523.6	2132.8	1434.8	1390.8	1398.6	1406.3	1416.7	1421.8
5436.6	22.5°	5216.8	4844.6	3324.5	1752.7	1354.6	1352.0	1354.6	1362.4	1375.3	1375.3
5653.7	25°	5418.5	4976.4	3097.0	1476.1	1313.3	1313.3	1318.4	1323.6	1333.9	1333.9
5863.1	27.5°	5625.3	5097.9	2856.6	1331.4	1277.1	1274.5	1274.5	1282.2	1287.4	1290.0
6069.9	30°	5852.8	5240.1	2616.2	1300.3	1248.6	1235.7	1227.9	1233.1	1238.3	1240.9
6287.1	32.5°	6085.5	5377.1	2401.6	1313.3	1220.2	1196.9	1171.1	1165.9	1165.9	1176.2
6512.0	35°	6344.0	5527.1	2236.2	1357.2	1204.7	1140.1	1098.7	1075.4	1078.0	1093.5
6780.9	37.5°	6654.2	5708.0	2114.7	1396.0	1194.3	1075.4	1008.2	979.8	961.7	979.8
7150.5	40°	7060.1	5974.3	2026.8	1427.0	1181.4	1000.5	910.0	863.4	829.8	840.2
7724.4	42.5°	7657.2	6393.1	1993.2	1429.6	1153.0	912.6	809.2	747.1	698.0	700.6
8587.9	45°	8494.8	7054.9	2166.4	1396.0	1090.9	816.9	703.2	620.4	589.4	581.7
9877.9	47.5°	9642.6	8019.2	2567.1	1326.2	1000.5	723.8	599.8	530.0	506.7	493.8
11571.2	50°	11180.8	9257.4	3011.7	1248.6	910.0	635.9	514.4	470.5	455.0	442.1
13579.8	52.5°	12964.6	10513.8	3376.2	1171.1	819.5	558.4	460.2	434.3	421.4	411.0
15518.7	55°	14601.0	11379.9	3355.5	1088.4	731.6	496.4	421.4	405.9	390.4	380.0
17188.7	57.5°	15619.5	11501.4	2766.1	997.9	630.8	447.2	385.2	374.8	356.8	343.8
18633.8	60°	16087.4	10808.5	1938.9	879.0	530.0	400.7	346.4	341.2	318.0	299.9
20001.4	62.5°	16172.7	9521.1	1292.6	731.6	442.1	356.8	307.6	299.9	268.9	237.8
21113.0	65°	15826.3	7680.5	894.5	571.3	377.4	310.2	263.7	248.2	214.6	183.5
21376.7	67.5°	14730.2	5392.6	623.0	411.0	320.6	245.6	209.4	204.2	178.4	152.5
20032.4	70°	12721.6	3073.8	416.2	307.6	253.3	168.0	165.5	170.6	144.8	124.1
16366.6	72.5°	9753.8	1406.3	258.5	224.9	173.2	113.7	131.8	134.4	111.2	93.1
10211.4	75°	5741.6	602.3	162.9	144.8	87.9	75.0	95.7	98.2	75.0	59.5
3733.0	77.5°	1954.4	227.5	103.4	85.3	43.9	41.4	62.0	62.0	41.4	23.3
749.7	80°	444.6	85.3	51.7	33.6	20.7	18.1	20.7	18.1	10.3	2.6
230.1	82.5°	126.7	33.6	20.7	12.9	7.8	7.8	2.6	0.0	0.0	0.0
80.1	85°	36.2	15.5	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
28.4	87.5°	15.5	2.6	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>
4149.2
3789.8
3197.8
2463.7
1809.6
1558.8
1514.9
1471.0
1424.4
1380.5
1336.5
1292.6
1246.0
1184.0
1101.3
974.6
835.0
690.2
571.3
486.0
439.5
408.5
374.8
341.2
294.7
222.3
173.2
144.8
113.7
82.7
51.7
18.1
0.0
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