

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: P951947

Luminaire Tested: **GALN-SB5D-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951947  
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-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

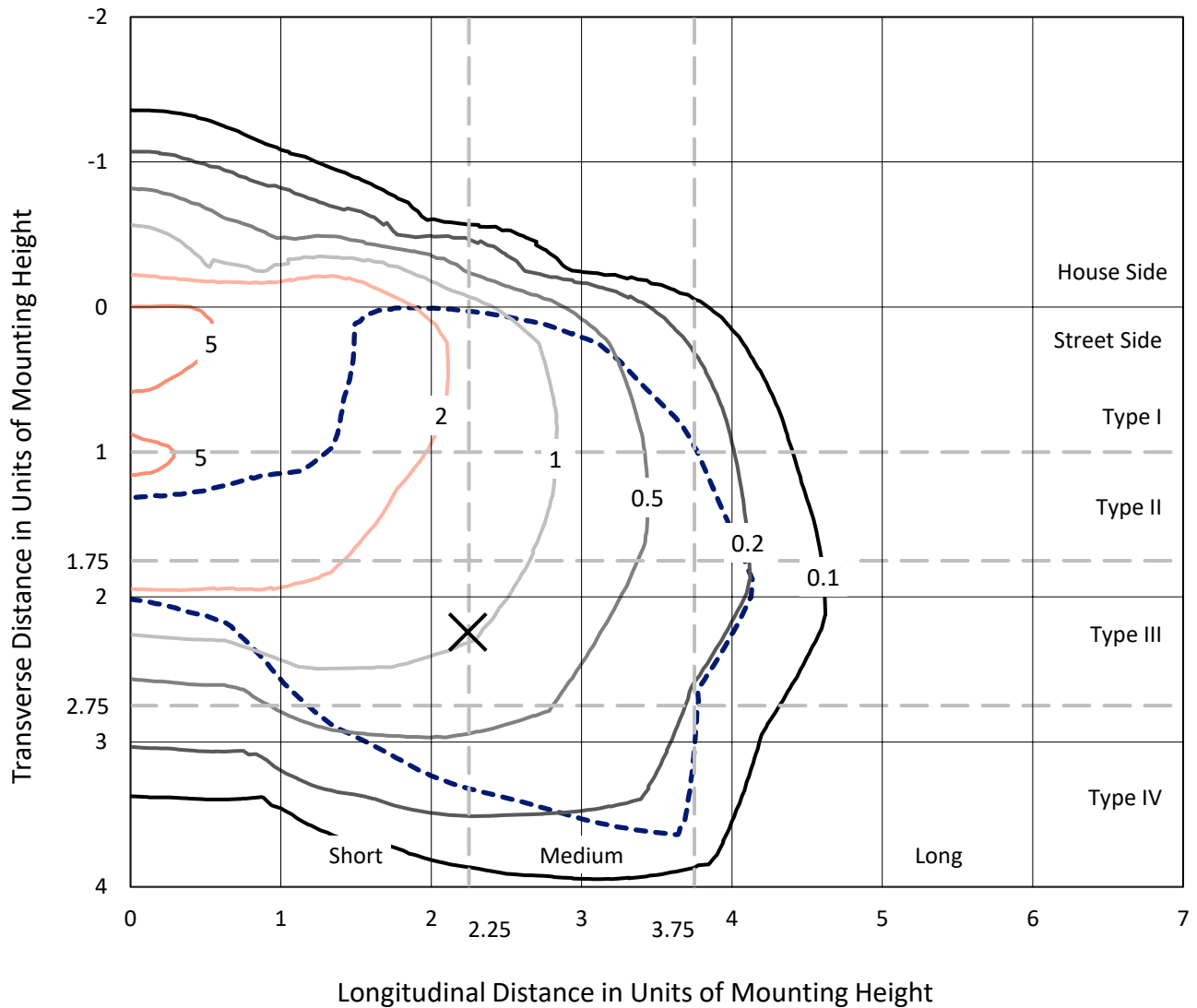
Lumens per Lamp: N/A  
Luminaire Lumens: 28692 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

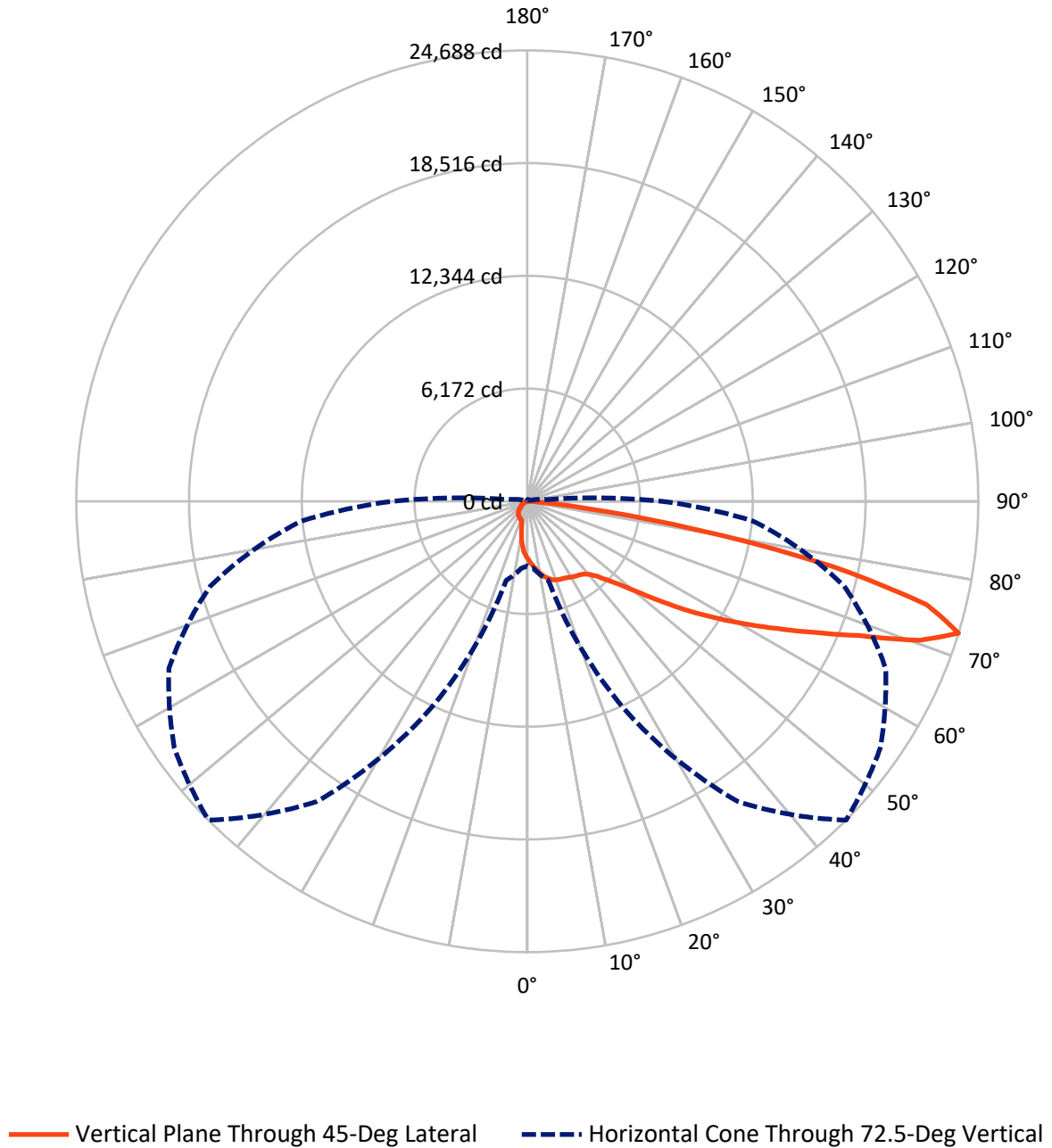
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3014.7	0.0	3014.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	25677.3	0.0	25677.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	28692.0	0.0	28692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.2	1.0
10°-20°	865.5	3.0
20°-30°	1421.4	5.0
30°-40°	2015.8	7.0
40°-50°	3332.0	11.6
50°-60°	5985.5	20.9
60°-70°	8311.2	29.0
70°-80°	6028.7	21.0
80°-90°	435.9	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°	28692.0	100.0
0°-180°	28692.0	100.0

**Coefficient of Utilization**



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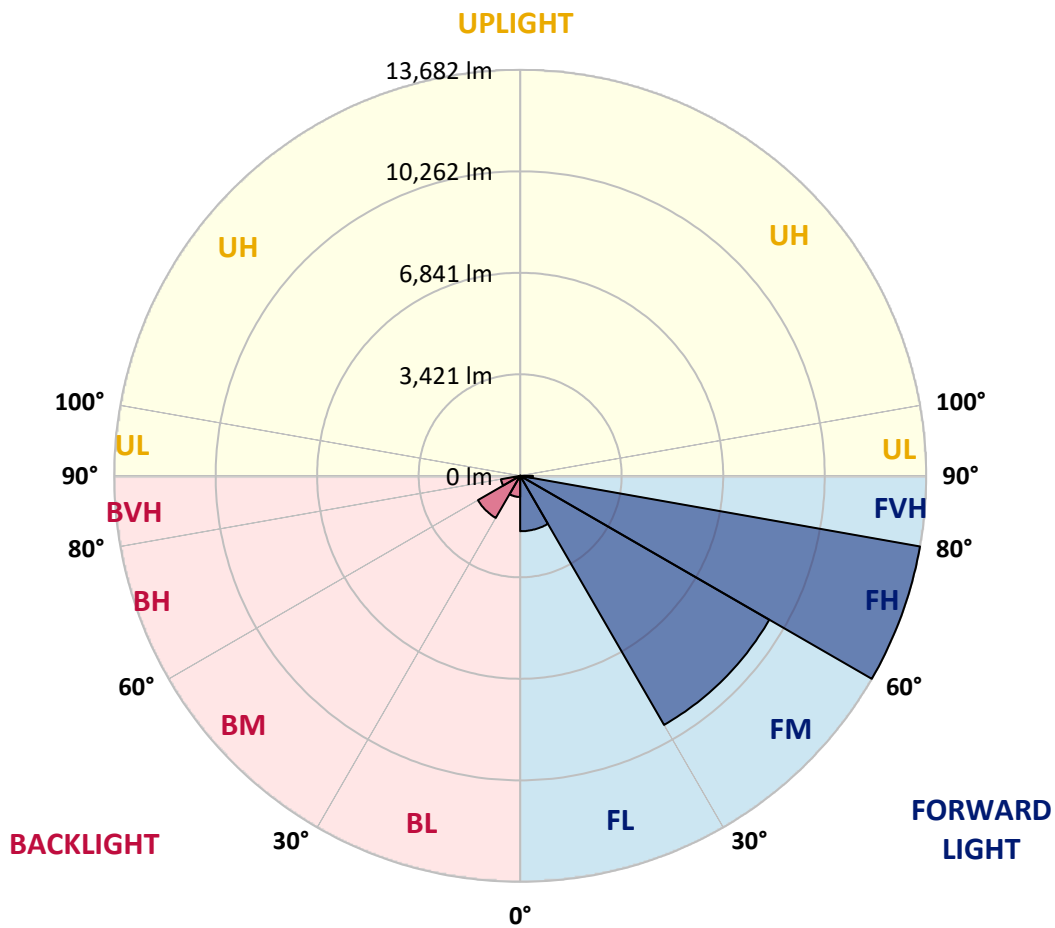
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1869.0	6.5			
FM (30°-60°)	9693.7	33.8			
FH (60°-80°)	13682.4	47.7			G5
FVH (80°-90°)	432.2	1.5			G3/500
BL (0°-30°)	714.1	2.5	B2/1000		
BM (30°-60°)	1639.6	5.7	B2/2500		
BH (60°-80°)	657.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3
2.5°	3433.1	3439.0	3435.1	3411.6	3372.4	3350.9	3339.1	3299.9	3274.5	3229.4
5°	3748.4	3771.9	3758.2	3711.2	3636.8	3583.9	3568.2	3488.0	3415.5	3331.3
7.5°	4083.3	4095.1	4069.6	4008.9	3909.0	3818.9	3805.2	3693.6	3578.0	3448.8
10°	4373.2	4386.9	4347.7	4259.6	4146.0	4034.4	4014.8	3891.4	3754.3	3595.7
12.5°	4616.0	4629.7	4578.8	4473.0	4347.7	4232.2	4212.6	4083.3	3932.5	3756.3
15°	4800.1	4825.6	4757.0	4643.4	4508.3	4392.7	4383.0	4255.7	4108.8	3912.9
17.5°	4907.8	4933.3	4868.6	4731.6	4616.0	4518.1	4506.3	4400.6	4263.5	4075.5
20°	4925.4	4948.9	4880.4	4760.9	4665.0	4586.6	4580.8	4504.4	4404.5	4224.3
22.5°	4872.6	4901.9	4839.3	4743.3	4676.7	4635.6	4627.8	4584.7	4527.9	4375.1
25°	4817.7	4841.2	4794.2	4710.0	4674.8	4670.8	4676.7	4668.9	4657.1	4527.9
27.5°	4813.8	4839.3	4786.4	4706.1	4686.5	4727.6	4733.5	4770.7	4780.5	4666.9
30°	4847.1	4864.7	4813.8	4729.6	4719.8	4813.8	4815.8	4882.3	4898.0	4784.4
32.5°	4919.6	4939.1	4888.2	4764.8	4751.1	4882.3	4888.2	4976.4	5001.8	4909.8
35°	5089.9	5113.4	5054.7	4862.8	4813.8	4947.0	4964.6	5068.4	5119.3	5042.9
37.5°	5514.9	5446.4	5366.1	5060.6	4956.8	5048.8	5078.2	5199.6	5289.7	5201.6
40°	6570.5	6355.1	6104.4	5397.4	5207.4	5266.2	5289.7	5411.1	5534.5	5448.3
42.5°	8154.9	7900.3	7496.8	6173.0	5585.4	5614.8	5632.4	5738.2	5912.5	5843.9
45°	9566.9	9474.9	9063.6	7496.8	6292.4	6147.5	6169.0	6223.9	6480.4	6455.0
47.5°	10651.9	10599.0	10281.7	9016.6	7487.1	6799.6	6860.4	6885.8	7256.0	7346.0
50°	11486.2	11466.6	11182.6	10367.9	9047.9	7761.2	7782.8	7727.9	8282.2	8505.4
52.5°	12273.4	12340.0	12130.5	11623.2	10714.5	9020.5	9016.6	8758.1	9506.2	9843.0
55°	12984.3	13007.8	13029.4	12904.1	12390.9	10454.1	10416.9	9993.8	10926.0	11274.6
57.5°	13652.2	13662.0	13853.9	14110.4	14135.9	11993.4	11924.8	11417.6	12477.1	12725.8
60°	14100.6	14145.7	14551.1	15264.0	15575.3	13581.7	13544.5	13027.4	14055.6	14171.2
62.5°	13454.4	13728.5	14750.8	16164.8	16934.5	15342.3	15324.7	14839.0	15716.3	15622.3
65°	10890.8	11354.9	13152.8	16773.9	18268.2	17308.5	17334.0	16817.0	17422.1	17116.6
67.5°	7618.3	8107.9	10234.7	16822.9	19758.5	19617.5	19764.4	18953.6	19233.7	18548.2
70°	5268.2	5520.8	6905.4	15769.2	20919.9	22798.0	22794.1	21577.9	21035.4	19200.4
72.5°	3542.8	3674.0	4484.8	12510.4	20066.0	24687.9	24574.3	23583.3	21642.5	17956.8
75°	1494.3	1590.2	2075.9	7030.7	15875.0	22586.5	22279.0	20841.5	19229.8	14139.8
77.5°	473.9	515.1	818.6	2516.6	8744.4	16977.6	16652.5	13015.7	12888.4	7093.4
80°	225.2	262.4	460.2	1010.5	3441.0	9234.0	9188.9	5904.6	5544.3	1915.3
82.5°	97.9	115.5	254.6	540.5	1539.3	3294.1	3360.7	2009.3	1662.7	726.6
85°	31.3	41.1	117.5	248.7	650.2	818.6	808.8	477.9	669.8	395.6
87.5°	0.0	0.0	39.2	56.8	66.6	47.0	52.9	41.1	186.1	109.7
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°
3143.3	0°	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3	3143.3
3182.4	2.5°	3158.9	3127.6	3072.8	3021.8	2976.8	2931.8	2904.3	2865.2	2861.3	2861.3
3233.4	5°	3180.5	3129.6	3031.6	2927.8	2808.4	2694.8	2581.2	2471.5	2436.3	2410.8
3315.6	7.5°	3243.1	3162.9	3008.1	2810.3	2583.2	2334.4	2160.1	1972.1	1899.7	1860.5
3425.3	10°	3333.2	3223.6	2988.6	2641.9	2273.7	1934.9	1686.2	1482.5	1404.2	1370.9
3544.7	12.5°	3433.1	3298.0	2953.3	2432.4	1934.9	1529.5	1286.7	1192.7	1180.9	1180.9
3687.7	15°	3552.6	3388.1	2892.6	2185.6	1580.4	1210.3	1124.1	1128.1	1139.8	1147.6
3826.8	17.5°	3676.0	3484.0	2796.6	1909.5	1267.1	1088.9	1090.8	1096.7	1106.5	1114.3
3977.6	20°	3809.1	3580.0	2669.3	1615.7	1086.9	1053.6	1059.5	1065.4	1073.2	1077.1
4118.6	22.5°	3952.1	3670.1	2518.5	1327.8	1026.2	1024.3	1026.2	1032.1	1041.9	1041.9
4283.1	25°	4104.9	3770.0	2346.2	1118.3	994.9	994.9	998.8	1002.7	1010.5	1010.5
4441.7	27.5°	4261.5	3862.0	2164.1	1008.6	967.5	965.5	965.5	971.4	975.3	977.3
4598.4	30°	4433.9	3969.7	1981.9	985.1	945.9	936.1	930.3	934.2	938.1	940.0
4762.9	32.5°	4610.1	4073.5	1819.4	994.9	924.4	906.8	887.2	883.2	883.2	891.1
4933.3	35°	4806.0	4187.1	1694.0	1028.2	912.6	863.7	832.3	814.7	816.7	828.4
5136.9	37.5°	5041.0	4324.2	1602.0	1057.5	904.8	814.7	763.8	742.2	728.5	742.2
5417.0	40°	5348.5	4525.9	1535.4	1081.0	895.0	757.9	689.4	654.1	628.7	636.5
5851.8	42.5°	5800.9	4843.2	1509.9	1083.0	873.5	691.3	613.0	566.0	528.8	530.7
6505.9	45°	6435.4	5344.5	1641.2	1057.5	826.5	618.9	532.7	470.0	446.5	440.6
7483.1	47.5°	7304.9	6075.0	1944.7	1004.7	757.9	548.4	454.4	401.5	383.9	374.1
8765.9	50°	8470.2	7013.1	2281.6	945.9	689.4	481.8	389.7	356.4	344.7	334.9
10287.6	52.5°	9821.5	7964.9	2557.7	887.2	620.8	423.0	348.6	329.0	319.2	311.4
11756.4	55°	11061.2	8621.0	2542.0	824.5	554.2	376.0	319.2	307.5	295.7	287.9
13021.6	57.5°	11832.8	8713.0	2095.5	756.0	477.9	338.8	291.8	284.0	270.3	260.5
14116.3	60°	12187.3	8188.2	1468.8	665.9	401.5	303.6	262.4	258.5	240.9	227.2
15152.3	62.5°	12251.9	7212.9	979.2	554.2	334.9	270.3	233.1	227.2	203.7	180.2
15994.4	65°	11989.5	5818.5	677.6	432.8	285.9	235.0	199.8	188.0	162.5	139.0
16194.2	67.5°	11159.1	4085.3	472.0	311.4	242.8	186.1	158.6	154.7	135.1	115.5
15175.8	70°	9637.4	2328.6	315.3	233.1	191.9	127.3	125.3	129.3	109.7	94.0
12398.8	72.5°	7389.1	1065.4	195.8	170.4	131.2	86.2	99.9	101.8	84.2	70.5
7735.8	75°	4349.7	456.3	123.4	109.7	66.6	56.8	72.5	74.4	56.8	45.0
2828.0	77.5°	1480.6	172.3	78.3	64.6	33.3	31.3	47.0	47.0	31.3	17.6
567.9	80°	336.8	64.6	39.2	25.5	15.7	13.7	15.7	13.7	7.8	2.0
174.3	82.5°	96.0	25.5	15.7	9.8	5.9	5.9	2.0	0.0	0.0	0.0
60.7	85°	27.4	11.8	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
21.5	87.5°	11.8	2.0	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>
3143.3
2871.0
2422.6
1866.4
1370.9
1180.9
1147.6
1114.3
1079.1
1045.8
1012.5
979.2
944.0
897.0
834.3
738.3
632.6
522.9
432.8
368.2
332.9
309.4
284.0
258.5
223.3
168.4
131.2
109.7
86.2
62.7
39.2
13.7
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