

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: P955391

Luminaire Tested: **GALN-SB8B-835-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955391  
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-SB8B-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

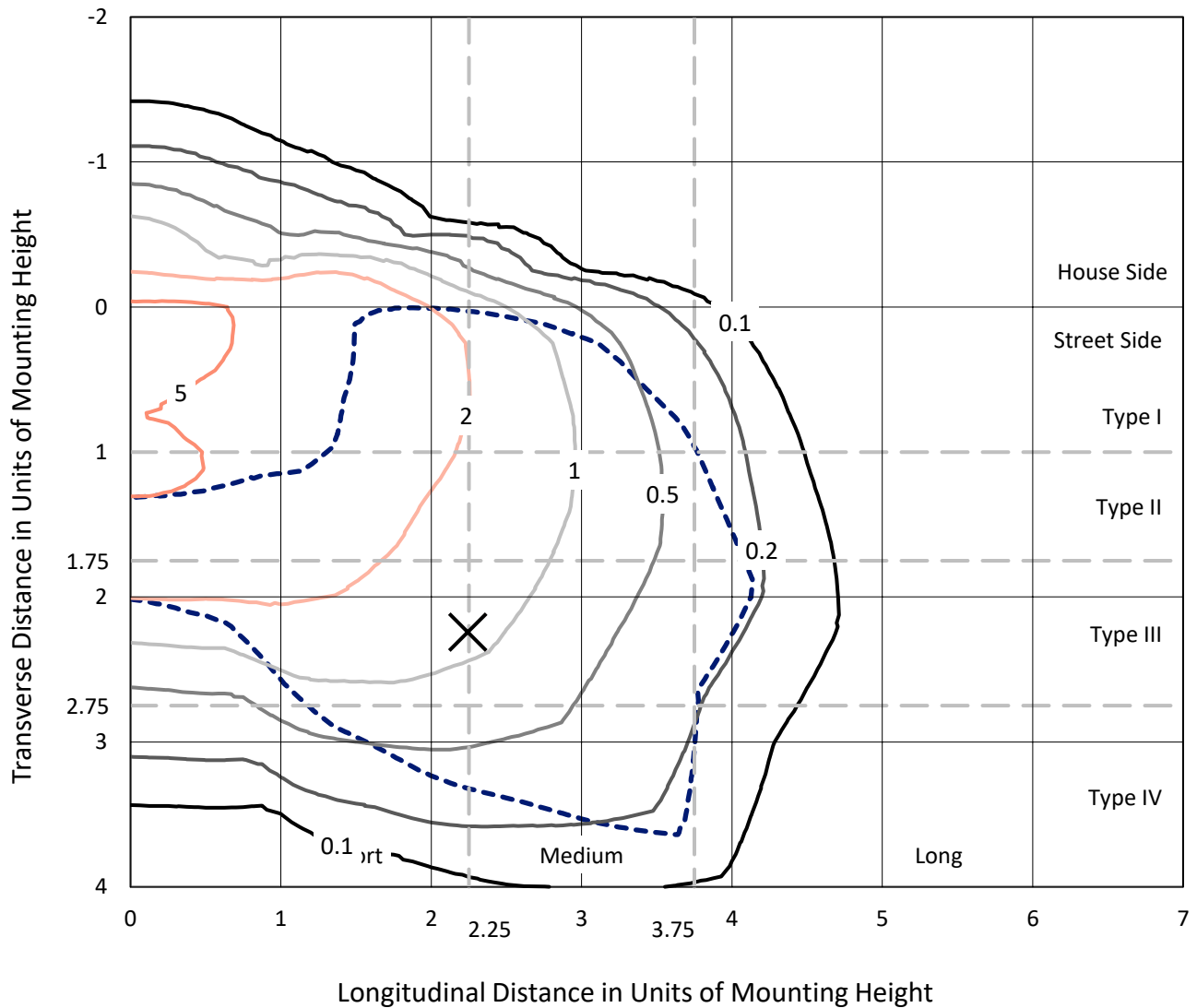
Lumens per Lamp: N/A  
Luminaire Lumens: 32532 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

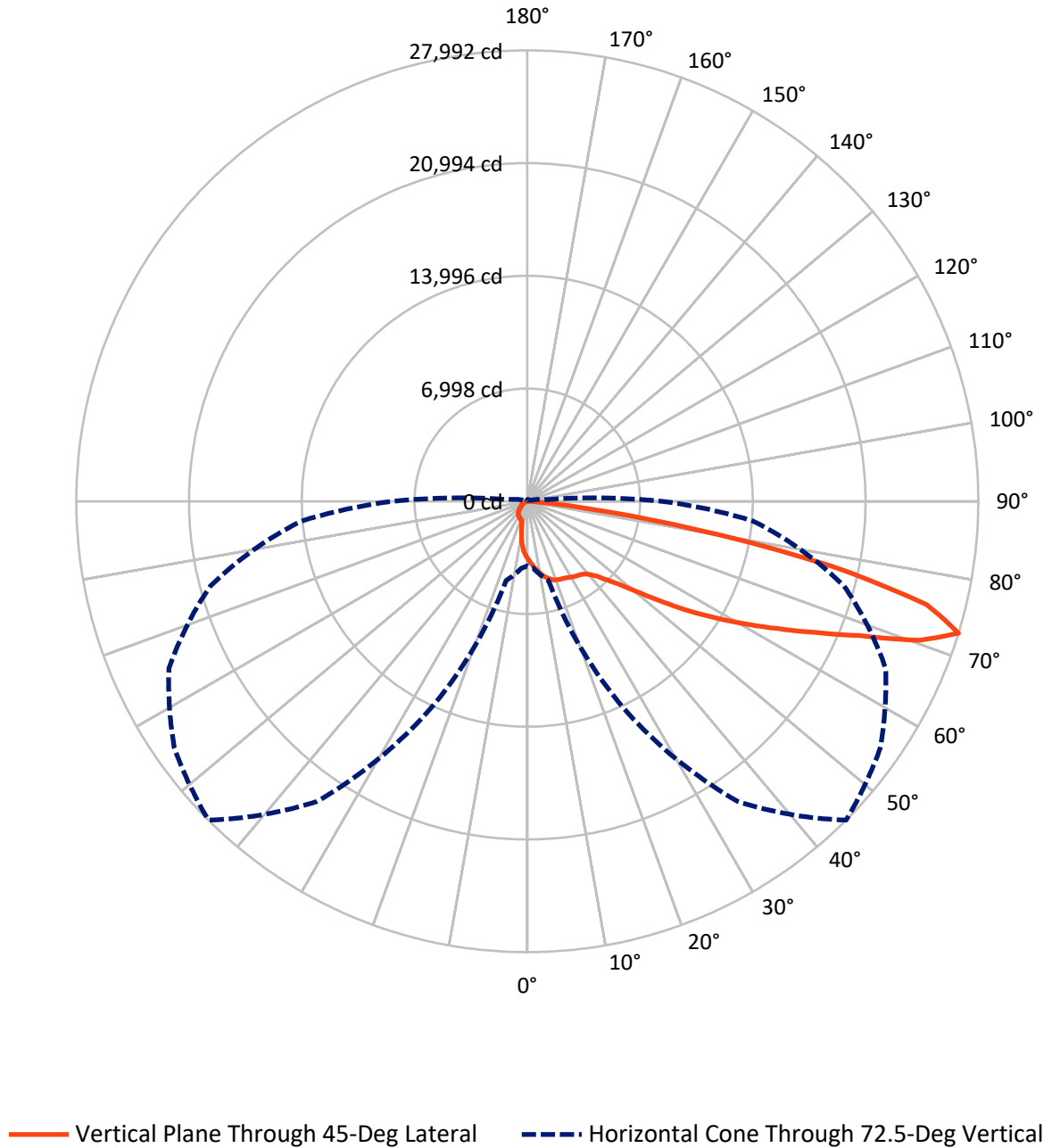
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3418.2	0.0	3418.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	29113.8	0.0	29113.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	32532.0	0.0	32532.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.8	1.0
10°-20°	981.4	3.0
20°-30°	1611.6	5.0
30°-40°	2285.6	7.0
40°-50°	3777.9	11.6
50°-60°	6786.6	20.9
60°-70°	9423.5	29.0
70°-80°	6835.5	21.0
80°-90°	494.2	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°	32532.0	100.0
0°-180°	32532.0	100.0

**Coefficient of Utilization**



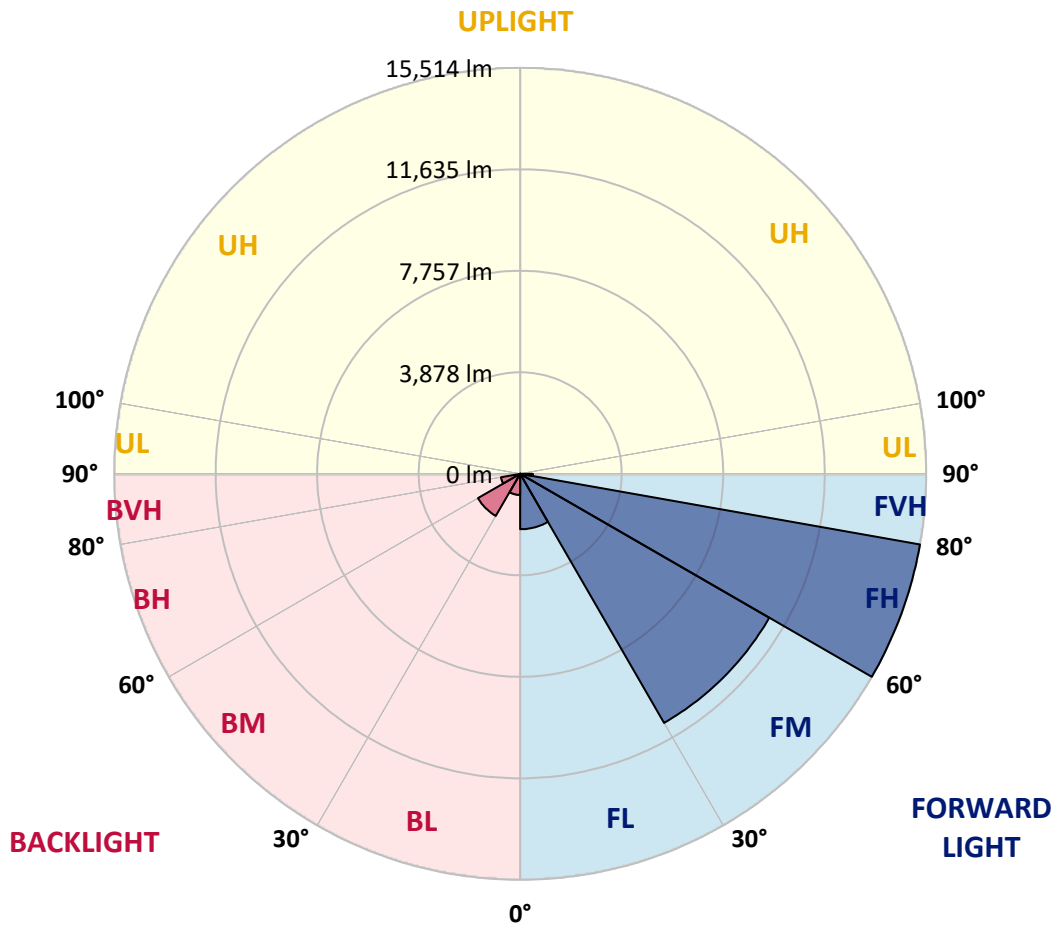
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2119.1	6.5			
FM (30°-60°)	10991.0	33.8			
FH (60°-80°)	15513.6	47.7			G5
FVH (80°-90°)	490.0	1.5			G3/500
BL (0°-30°)	809.6	2.5	B2/1000		
BM (30°-60°)	1859.0	5.7	B2/2500		
BH (60°-80°)	745.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9
2.5°	3892.6	3899.2	3894.8	3868.2	3823.8	3799.3	3786.0	3741.6	3712.7	3661.7
5°	4250.1	4276.7	4261.2	4207.9	4123.5	4063.6	4045.8	3954.8	3872.6	3777.1
7.5°	4629.8	4643.1	4614.3	4545.4	4432.2	4330.0	4314.5	4187.9	4056.9	3910.4
10°	4958.4	4974.0	4929.6	4829.7	4700.9	4574.3	4552.1	4412.2	4256.8	4076.9
12.5°	5233.8	5249.3	5191.6	5071.7	4929.6	4798.6	4776.4	4629.8	4458.8	4259.0
15°	5442.5	5471.4	5393.7	5264.9	5111.7	4980.6	4969.5	4825.2	4658.7	4436.6
17.5°	5564.6	5593.5	5520.2	5364.8	5233.8	5122.8	5109.4	4989.5	4834.1	4620.9
20°	5584.6	5611.3	5533.6	5398.1	5289.3	5200.5	5193.8	5107.2	4994.0	4789.7
22.5°	5524.7	5558.0	5486.9	5378.1	5302.6	5256.0	5247.1	5198.3	5133.9	4960.7
25°	5462.5	5489.1	5435.9	5340.4	5300.4	5296.0	5302.6	5293.7	5280.4	5133.9
27.5°	5458.1	5486.9	5427.0	5335.9	5313.7	5360.4	5367.0	5409.2	5420.3	5291.5
30°	5495.8	5515.8	5458.1	5362.6	5351.5	5458.1	5460.3	5535.8	5553.5	5424.8
32.5°	5578.0	5600.2	5542.4	5402.5	5387.0	5535.8	5542.4	5642.4	5671.2	5566.9
35°	5771.2	5797.8	5731.2	5513.6	5458.1	5609.1	5629.0	5746.7	5804.5	5717.9
37.5°	6253.0	6175.3	6084.3	5737.8	5620.2	5724.5	5757.8	5895.5	5997.7	5897.7
40°	7449.9	7205.6	6921.4	6119.8	5904.4	5971.0	5997.7	6135.3	6275.2	6177.5
42.5°	9246.3	8957.6	8500.2	6999.1	6333.0	6366.3	6386.2	6506.2	6703.8	6626.1
45°	10847.3	10742.9	10276.6	8500.2	7134.6	6970.2	6994.7	7056.8	7347.7	7318.9
47.5°	12077.5	12017.5	11657.8	10223.3	8489.1	7709.7	7778.5	7807.4	8227.1	8329.2
50°	13023.4	13001.2	12679.2	11755.5	10258.8	8800.0	8824.4	8762.2	9390.6	9643.8
52.5°	13916.1	13991.6	13754.0	13178.8	12148.5	10227.8	10223.3	9930.2	10778.5	11160.4
55°	14722.1	14748.8	14773.2	14631.1	14049.3	11853.2	11811.0	11331.4	12388.3	12783.6
57.5°	15479.3	15490.4	15708.0	15998.9	16027.8	13598.5	13520.8	12945.7	14147.0	14429.0
60°	15987.8	16038.9	16498.5	17306.8	17659.9	15399.4	15357.2	14771.0	15936.7	16067.8
62.5°	15255.0	15565.9	16725.0	18328.3	19200.9	17395.6	17375.6	16825.0	17819.7	17713.2
65°	12348.4	12874.6	14913.1	19018.8	20713.1	19625.0	19653.9	19067.7	19753.8	19407.4
67.5°	8637.9	9193.0	11604.5	19074.3	22402.9	22243.0	22409.6	21490.3	21807.8	21030.6
70°	5973.2	6259.7	7829.6	17879.7	23719.7	25849.2	25844.7	24465.8	23850.7	21770.1
72.5°	4016.9	4165.7	5085.0	14184.7	22751.5	27992.0	27863.2	26739.6	24539.1	20360.0
75°	1694.3	1803.1	2353.8	7971.7	17999.6	25609.4	25260.7	23630.9	21803.4	16032.2
77.5°	537.4	584.0	928.2	2853.4	9914.7	19249.8	18881.2	14757.6	14613.3	8042.8
80°	255.4	297.6	521.8	1145.8	3901.5	10469.8	10418.7	6694.9	6286.3	2171.7
82.5°	111.0	131.0	288.7	612.9	1745.3	3734.9	3810.4	2278.3	1885.2	823.8
85°	35.5	46.6	133.2	282.0	737.2	928.2	917.1	541.8	759.4	448.5
87.5°	0.0	0.0	44.4	64.4	75.5	53.3	60.0	46.6	211.0	124.3
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°
3563.9	0°	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9	3563.9
3608.4	2.5°	3581.7	3546.2	3484.0	3426.3	3375.2	3324.1	3293.0	3248.6	3244.2	3244.2
3666.1	5°	3606.1	3548.4	3437.4	3319.7	3184.2	3055.4	2926.7	2802.3	2762.3	2733.5
3759.4	7.5°	3677.2	3586.2	3410.7	3186.5	2928.9	2646.9	2449.2	2236.1	2153.9	2109.5
3883.7	10°	3779.3	3655.0	3388.5	2995.5	2578.0	2193.9	1911.9	1680.9	1592.1	1554.4
4019.2	12.5°	3892.6	3739.4	3348.6	2757.9	2193.9	1734.2	1458.9	1352.3	1339.0	1339.0
4181.3	15°	4028.0	3841.5	3279.7	2478.1	1792.0	1372.3	1274.6	1279.0	1292.3	1301.2
4338.9	17.5°	4167.9	3950.3	3170.9	2165.0	1436.7	1234.6	1236.8	1243.5	1254.6	1263.5
4509.9	20°	4318.9	4059.1	3026.6	1831.9	1232.4	1194.6	1201.3	1208.0	1216.9	1221.3
4669.8	22.5°	4481.0	4161.3	2855.6	1505.5	1163.6	1161.3	1163.6	1170.2	1181.3	1181.3
4856.3	25°	4654.2	4274.5	2660.2	1267.9	1128.0	1128.0	1132.5	1136.9	1145.8	1145.8
5036.2	27.5°	4831.9	4378.9	2453.7	1143.6	1096.9	1094.7	1094.7	1101.4	1105.8	1108.0
5213.8	30°	5027.3	4501.0	2247.2	1116.9	1072.5	1061.4	1054.8	1059.2	1063.6	1065.9
5400.3	32.5°	5227.1	4618.7	2062.9	1128.0	1048.1	1028.1	1005.9	1001.5	1001.5	1010.3
5593.5	35°	5449.2	4747.5	1920.8	1165.8	1034.8	979.3	943.7	923.7	926.0	939.3
5824.4	37.5°	5715.6	4902.9	1816.4	1199.1	1025.9	923.7	866.0	841.6	826.0	841.6
6142.0	40°	6064.3	5131.6	1740.9	1225.7	1014.8	859.3	781.6	741.7	712.8	721.7
6634.9	42.5°	6577.2	5491.4	1712.0	1228.0	990.4	783.8	695.0	641.7	599.5	601.8
7376.6	45°	7296.7	6059.8	1860.8	1199.1	937.1	701.7	604.0	532.9	506.3	499.6
8484.6	47.5°	8282.6	6888.1	2205.0	1139.1	859.3	621.7	515.2	455.2	435.2	424.1
9939.1	50°	9603.8	7951.7	2586.9	1072.5	781.6	546.3	441.9	404.1	390.8	379.7
11664.4	52.5°	11136.0	9030.9	2900.0	1005.9	703.9	479.6	395.3	373.0	361.9	353.1
13329.8	55°	12541.6	9774.8	2882.2	934.8	628.4	426.3	361.9	348.6	335.3	326.4
14764.3	57.5°	13416.4	9879.1	2376.0	857.1	541.8	384.2	330.9	322.0	306.4	295.3
16005.6	60°	13818.4	9284.0	1665.4	755.0	455.2	344.2	297.6	293.1	273.1	257.6
17180.2	62.5°	13891.6	8178.2	1110.3	628.4	379.7	306.4	264.2	257.6	230.9	204.3
18135.1	65°	13594.1	6597.2	768.3	490.7	324.2	266.5	226.5	213.2	184.3	157.7
18361.6	67.5°	12652.6	4632.0	535.1	353.1	275.3	211.0	179.9	175.4	153.2	131.0
17206.9	70°	10927.2	2640.2	357.5	264.2	217.6	144.3	142.1	146.6	124.3	106.6
14058.2	72.5°	8378.1	1208.0	222.1	193.2	148.8	97.7	113.2	115.5	95.5	79.9
8771.1	75°	4931.8	517.4	139.9	124.3	75.5	64.4	82.2	84.4	64.4	51.1
3206.4	77.5°	1678.7	195.4	88.8	73.3	37.7	35.5	53.3	53.3	35.5	20.0
644.0	80°	381.9	73.3	44.4	28.9	17.8	15.5	17.8	15.5	8.9	2.2
197.6	82.5°	108.8	28.9	17.8	11.1	6.7	6.7	2.2	0.0	0.0	0.0
68.8	85°	31.1	13.3	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
24.4	87.5°	13.3	2.2	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>
3563.9
3255.3
2746.8
2116.2
1554.4
1339.0
1301.2
1263.5
1223.5
1185.8
1148.0
1110.3
1070.3
1017.0
945.9
837.1
717.2
592.9
490.7
417.5
377.5
350.8
322.0
293.1
253.1
191.0
148.8
124.3
97.7
71.1
44.4
15.5
0.0
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