

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: P954902

Luminaire Tested: **GALN-SB8A-735-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954902  
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-SB8A-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

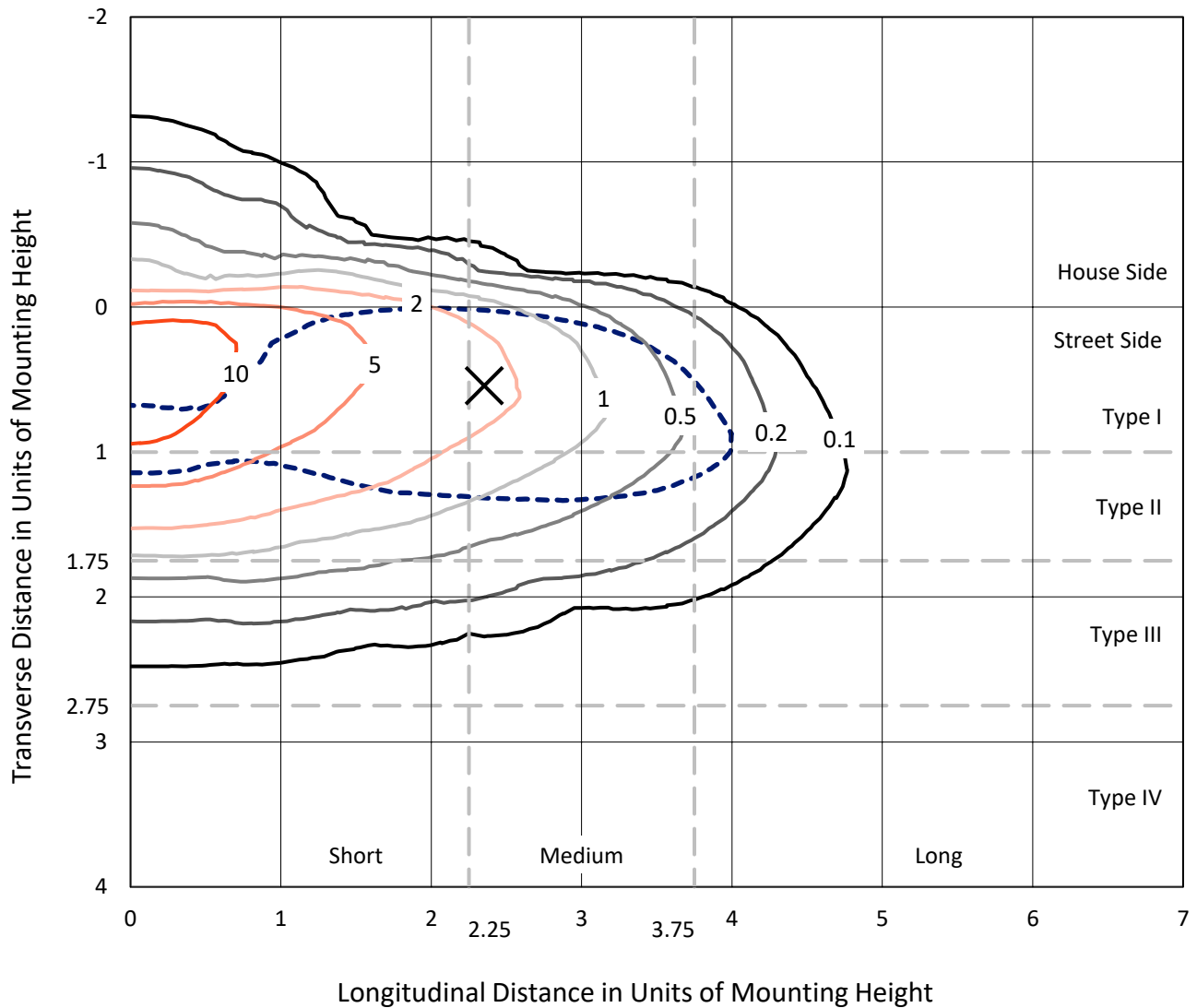
Lumens per Lamp: N/A  
Luminaire Lumens: 30711 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

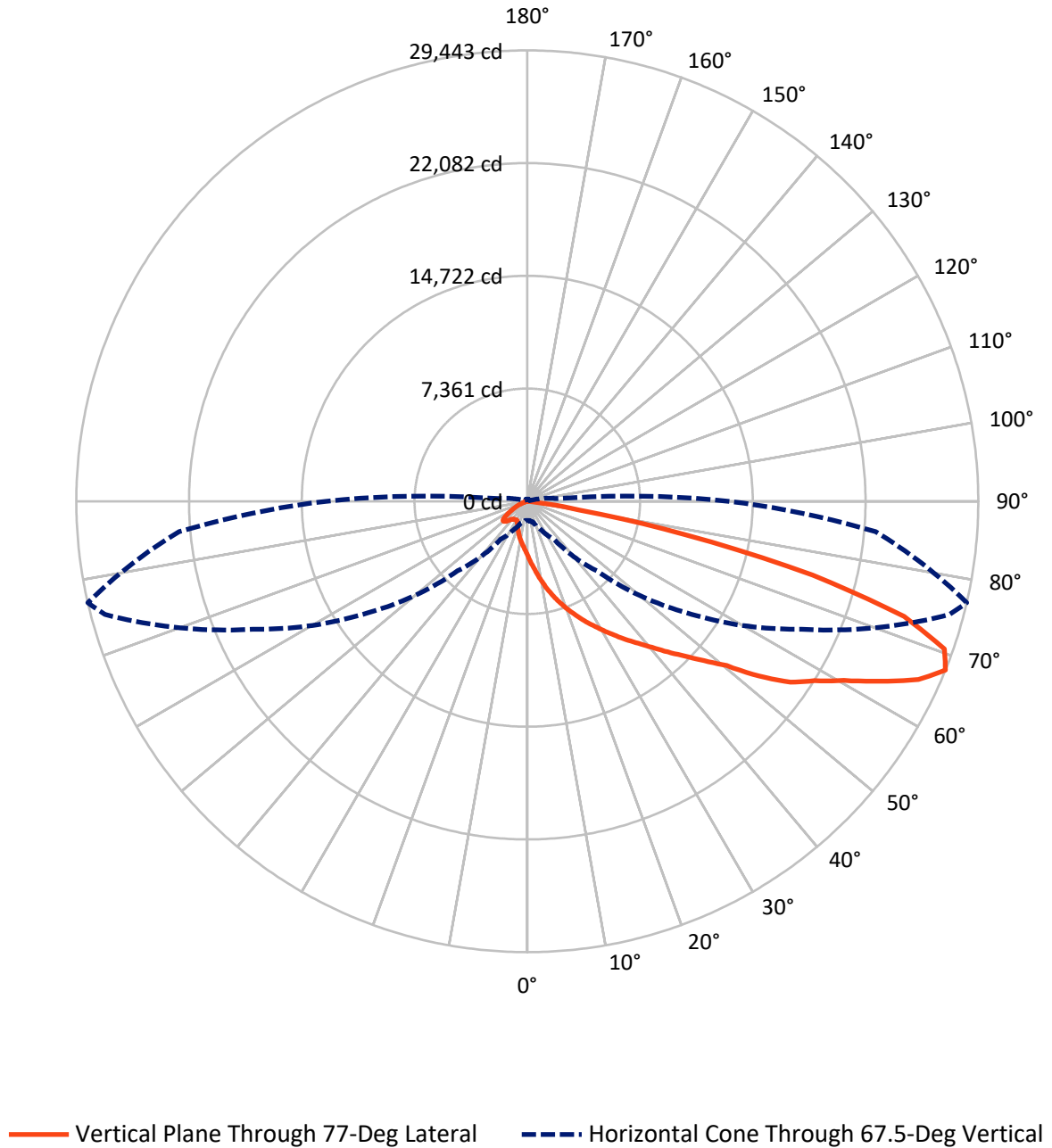
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2259.4	0.0	2259.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	28451.6	0.0	28451.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	30711.0	0.0	30711.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.5	1.2
10°-20°	1265.8	4.1
20°-30°	2442.6	8.0
30°-40°	4240.5	13.8
40°-50°	6157.0	20.0
50°-60°	7070.6	23.0
60°-70°	6138.6	20.0
70°-80°	2891.3	9.4
80°-90°	143.0	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°	30711.0	100.0
0°-180°	30711.0	100.0

**Coefficient of Utilization**



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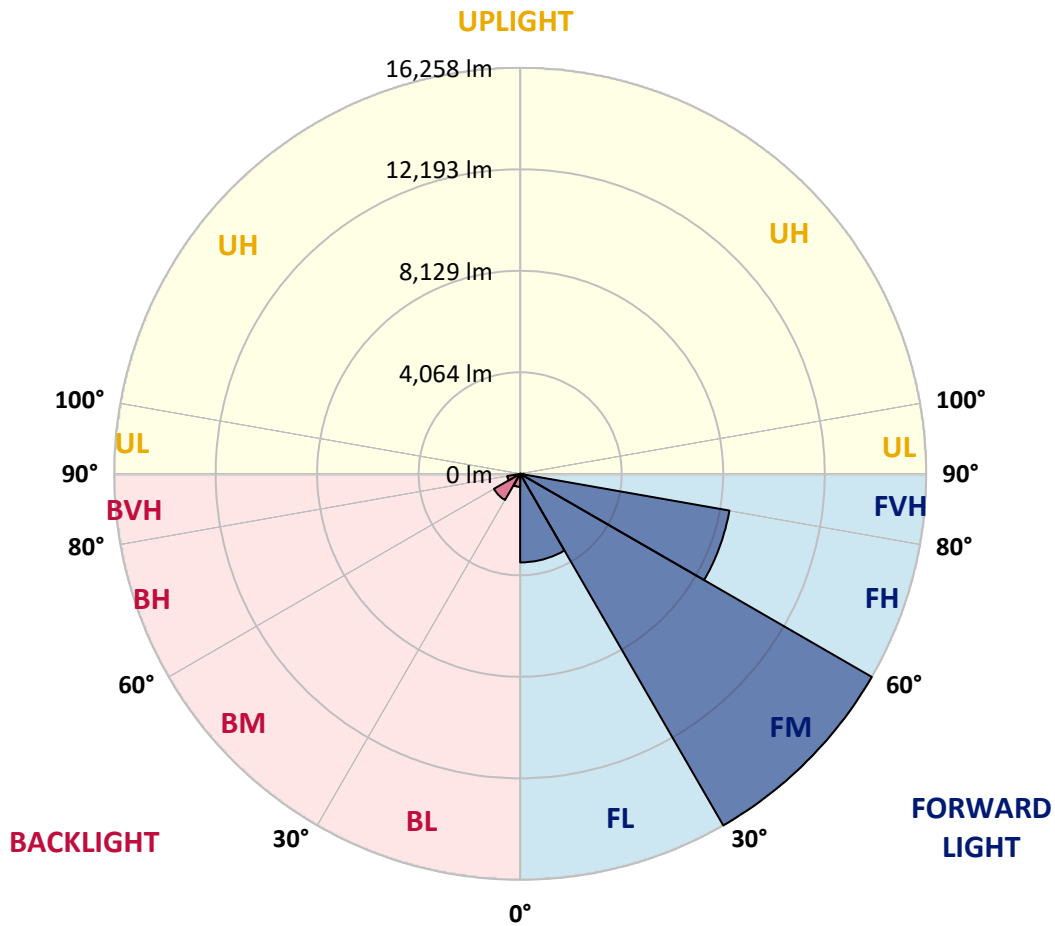
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3546.8	11.5			
FM (30°-60°)	16257.6	52.9			
FH (60°-80°)	8506.9	27.7			G4/12000
FVH (80°-90°)	140.4	0.5			G2/225
BL (0°-30°)	523.1	1.7	B2/1000		
BM (30°-60°)	1210.6	3.9	B2/2500		
BH (60°-80°)	523.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.6	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4
2.5°	4903.1	4933.6	4889.7	4805.8	4680.0	4597.9	4397.7	4208.9	3999.1	3932.4
5°	5976.8	6003.5	5953.9	5862.3	5694.5	5534.3	5271.1	4876.4	4466.4	4334.8
7.5°	6772.0	6787.3	6768.2	6684.3	6524.1	6342.9	6049.2	5582.0	4973.6	4828.7
10°	7344.1	7393.7	7388.0	7355.6	7248.8	7101.9	6789.2	6257.1	5541.9	5355.1
12.5°	7723.6	7778.9	7811.4	7883.8	7878.1	7784.7	7510.0	6947.5	6108.3	5889.0
15°	7834.2	7893.4	8017.3	8185.1	8333.9	8381.6	8189.0	7624.5	6732.0	6451.6
17.5°	7771.3	7862.9	8011.6	8276.7	8602.8	8818.3	8797.3	8278.6	7298.4	6978.0
20°	7910.5	7998.3	8114.6	8337.7	8717.2	9108.2	9264.5	8904.1	7860.9	7525.3
22.5°	8681.0	8665.7	8677.2	8713.4	8940.3	9327.5	9649.8	9472.4	8417.8	8074.5
25°	9901.5	9832.9	9716.5	9520.1	9462.9	9649.8	9985.4	9975.9	9005.2	8637.1
27.5°	11301.3	11289.9	11017.1	10544.2	10277.2	10204.7	10364.9	10466.0	9586.8	9194.0
30°	12642.0	12672.5	12304.4	11778.1	11287.9	11003.8	10858.9	10931.3	10178.0	9794.7
32.5°	13809.1	13841.5	13441.0	12825.0	12218.6	11875.3	11570.2	11390.9	10822.6	10405.0
35°	14795.1	14827.5	14367.9	13687.0	13040.5	12729.7	12384.5	11894.4	11471.0	11082.0
37.5°	15676.1	15666.6	15050.6	14364.1	13729.0	13483.0	13301.8	12514.2	12138.5	11762.8
40°	16196.7	16236.8	15710.4	14953.3	14337.4	14158.1	14146.6	13282.7	12909.0	12544.7
42.5°	16349.3	16419.9	16038.5	15416.8	14858.0	14663.5	14962.9	14114.2	13805.3	13450.6
45°	16074.7	16143.4	15969.8	15538.8	15212.7	15086.8	15664.7	14976.2	14762.6	14411.7
47.5°	15273.7	15359.5	15401.5	15310.0	15306.1	15433.9	16294.0	15884.0	15899.2	15540.7
50°	13723.3	13868.2	14253.4	14577.6	15079.2	15708.5	16906.2	16868.0	17180.8	16871.9
52.5°	10904.6	11110.6	12437.9	13324.7	14451.8	15657.0	17579.4	18447.1	19429.2	18977.3
55°	8763.0	8763.0	9842.4	11501.5	13227.4	15317.6	17873.1	19473.1	20960.6	20853.8
57.5°	7143.9	7229.7	7918.2	9384.7	11455.8	14509.0	18054.2	20117.7	22194.5	22116.3
60°	4409.1	4594.1	5894.8	7342.2	9440.0	13069.2	17939.8	20769.9	23691.5	23754.5
62.5°	2483.0	2551.7	3131.4	5282.6	7340.3	11133.5	17064.5	21134.2	25606.2	25873.2
65°	1714.5	1748.8	1971.9	3287.8	5088.1	8864.1	15353.8	20907.2	27524.7	28064.4
67.5°	1245.3	1262.5	1401.7	2008.1	3018.9	6426.8	12672.5	19763.0	28541.2	29443.3
70°	957.3	968.8	1069.9	1319.7	1783.1	3966.7	9203.5	17487.8	27805.1	28882.6
72.5°	778.1	789.5	867.7	976.4	1182.4	2345.7	5578.2	14202.0	24555.4	25718.8
75°	656.0	671.3	741.9	812.4	926.8	1506.6	2616.5	9890.1	18466.2	19229.0
77.5°	364.3	335.6	602.6	673.2	781.9	953.5	1224.3	5820.4	10342.0	10553.7
80°	226.9	234.6	478.7	541.6	600.7	480.6	560.7	2240.8	3585.3	3406.0
82.5°	13.3	30.5	368.1	390.9	411.9	206.0	211.7	760.9	863.9	793.3
85°	0.0	0.0	167.8	135.4	143.0	59.1	61.0	177.4	116.3	125.9
87.5°	0.0	0.0	0.0	3.8	0.0	5.7	11.4	15.3	5.7	7.6
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°
3541.4	0°	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4	3541.4
3722.6	2.5°	3589.1	3455.6	3184.8	2919.7	2704.2	2504.0	2361.0	2225.6	2156.9	2153.1
3962.9	5°	3697.8	3417.5	2875.9	2397.2	2012.0	1703.0	1502.8	1359.7	1287.3	1262.5
4258.5	7.5°	3850.4	3428.9	2605.1	1939.5	1485.6	1220.5	1106.1	1060.3	1045.1	1027.9
4592.2	10°	4043.0	3455.6	2362.9	1561.9	1170.9	1037.4	991.7	972.6	961.2	949.7
4967.9	12.5°	4258.5	3480.4	2122.6	1296.8	1029.8	961.2	928.7	905.9	890.6	877.3
5353.1	15°	4468.3	3495.7	1872.7	1111.8	957.3	902.0	867.7	842.9	821.9	806.7
5730.7	17.5°	4676.1	3516.6	1638.2	1001.2	898.2	842.9	808.6	778.1	760.9	743.8
6127.4	20°	4906.9	3512.8	1417.0	923.0	839.1	783.8	747.6	719.0	701.8	682.7
6547.0	22.5°	5120.5	3493.8	1222.4	856.3	778.1	724.7	684.6	656.0	638.9	623.6
6976.1	25°	5366.5	3478.5	1060.3	795.2	720.9	667.5	623.6	596.9	577.8	564.5
7407.1	27.5°	5603.0	3455.6	942.1	739.9	665.6	614.1	572.1	541.6	524.4	514.9
7851.4	30°	5835.6	3449.9	898.2	686.5	616.0	564.5	522.5	493.9	480.6	476.8
8339.6	32.5°	6116.0	3465.1	917.3	667.5	570.2	518.7	478.7	457.7	444.3	444.3
8883.1	35°	6415.4	3461.3	945.9	684.6	539.7	473.0	442.4	429.1	415.7	415.7
9485.8	37.5°	6791.1	3467.1	968.8	713.2	528.3	434.8	417.6	400.5	392.9	392.9
10145.6	40°	7351.8	3655.9	957.3	738.0	524.4	408.1	373.8	368.1	362.3	362.3
10891.3	42.5°	8038.3	4065.9	972.6	739.9	522.5	389.0	343.3	354.7	341.4	339.5
11732.3	45°	8789.7	4514.0	1069.9	699.9	520.6	379.5	328.0	341.4	320.4	320.4
12706.8	47.5°	9535.4	4958.4	1169.0	642.7	514.9	377.6	314.7	307.0	301.3	303.2
13976.9	50°	10563.3	5320.7	1207.2	564.5	501.6	373.8	289.9	291.8	288.0	291.8
15767.7	52.5°	11682.7	5397.0	1161.4	476.8	463.4	362.3	272.7	280.3	278.4	282.2
17028.2	55°	12380.7	5315.0	959.3	396.7	404.3	316.6	255.5	270.8	270.8	270.8
18260.2	57.5°	13101.6	4966.0	680.8	322.3	335.6	259.4	240.3	261.3	259.4	257.5
19743.9	60°	13620.3	4401.5	448.2	265.1	267.0	213.6	223.1	246.0	244.1	234.6
21273.4	62.5°	14007.4	3777.9	288.0	225.0	204.1	192.6	204.1	223.1	215.5	194.5
22570.2	65°	13963.6	2914.0	221.2	192.6	167.8	167.8	177.4	194.5	171.6	137.3
<b>22818.1</b>	<b>67.5°</b>	<b>13149.3</b>	<b>1971.9</b>	<b>183.1</b>	<b>162.1</b>	<b>141.1</b>	<b>139.2</b>	<b>146.8</b>	<b>162.1</b>	<b>146.8</b>	<b>116.3</b>
21548.0	70°	11694.2	1289.2	146.8	125.9	112.5	103.0	118.2	139.2	124.0	93.4
18344.1	72.5°	9491.5	785.7	110.6	91.5	82.0	66.7	93.4	114.4	99.2	68.7
12756.4	75°	6140.8	400.5	76.3	59.1	43.9	40.0	68.7	85.8	68.7	42.0
5660.2	77.5°	2349.5	167.8	42.0	26.7	22.9	19.1	38.1	51.5	28.6	9.5
1096.6	80°	452.0	70.6	21.0	13.3	11.4	7.6	5.7	3.8	0.0	0.0
194.5	82.5°	78.2	22.9	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
38.1	85°	26.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.3	87.5°	9.5	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>
3541.4
2149.3
1258.7
1024.1
945.9
873.4
804.8
741.9
680.8
621.7
562.6
514.9
474.9
444.3
415.7
392.9
362.3
337.6
320.4
303.2
291.8
282.2
270.8
257.5
234.6
190.7
133.5
<i>112.5</i>
89.6
64.8
36.2
7.6
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