

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: P947132

Luminaire Tested: **GALN-SB2C-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947132  
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-SB2C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

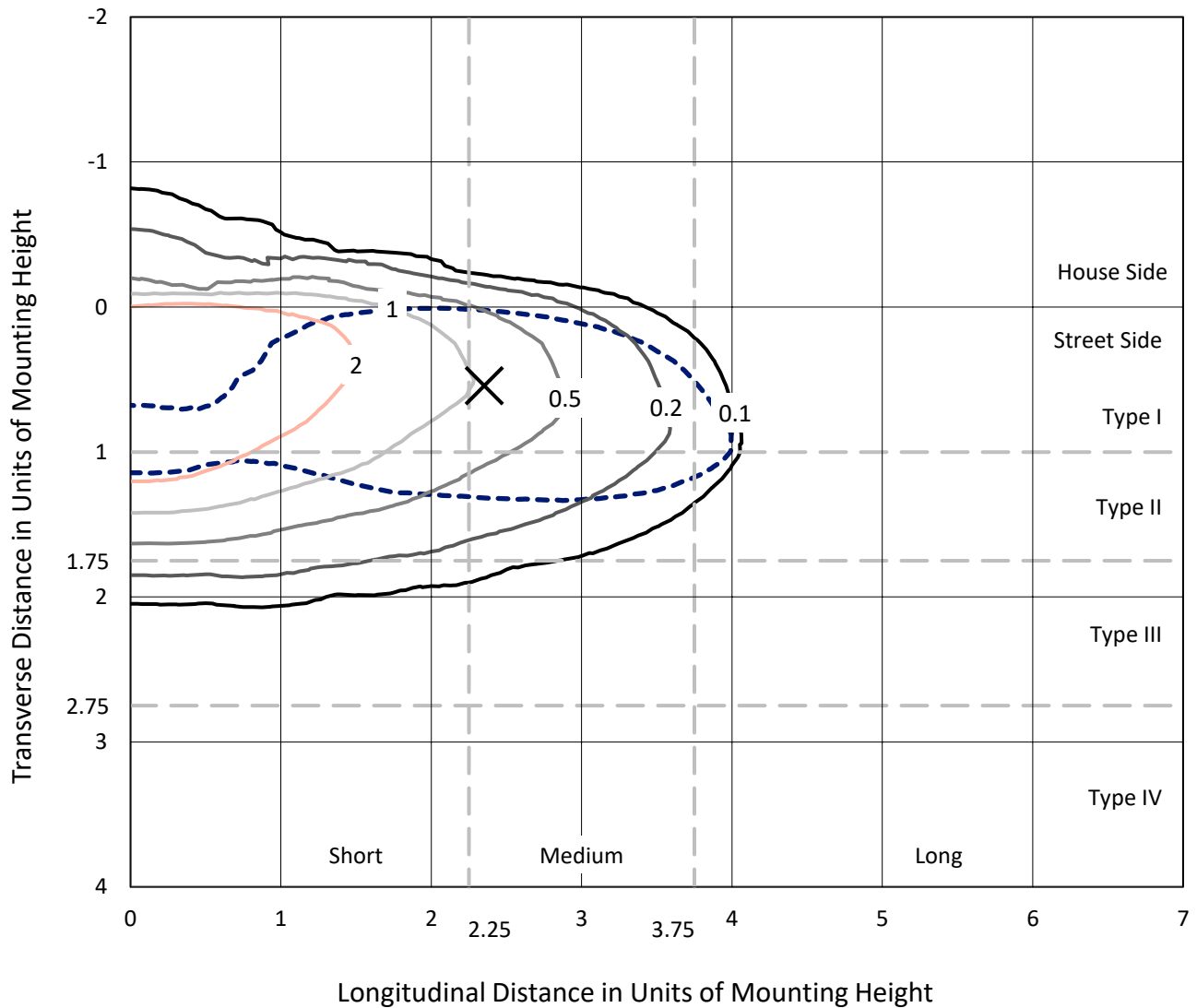
Lumens per Lamp: N/A  
Luminaire Lumens: 11027 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

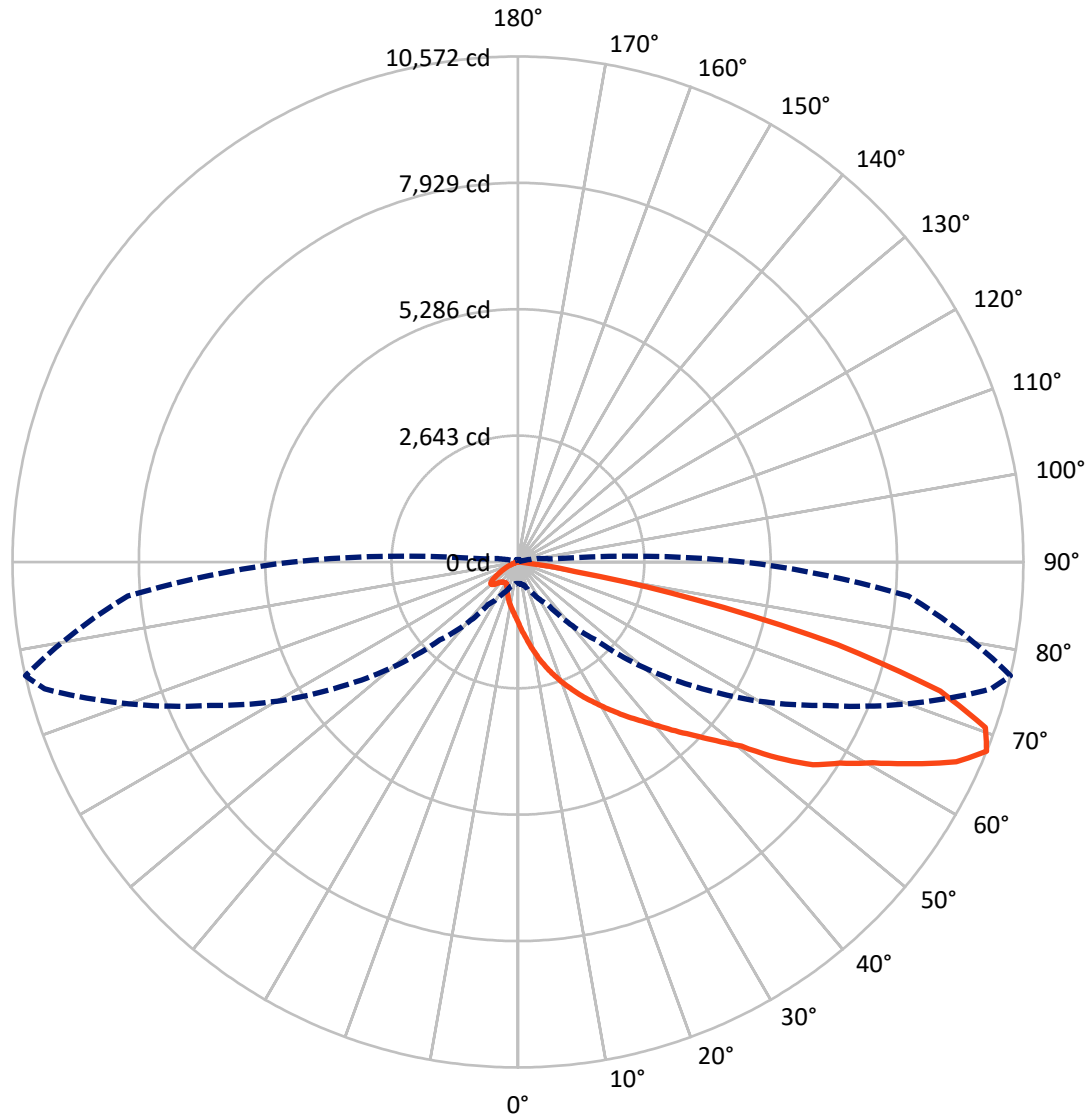
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB2C-827-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GALN-SB2C-827-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	811.3	0.0	811.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	10215.8	0.0	10215.8
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	11027.0	0.0	11027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.8	1.2
10°-20°	454.5	4.1
20°-30°	877.0	8.0
30°-40°	1522.6	13.8
40°-50°	2210.7	20.0
50°-60°	2538.8	23.0
60°-70°	2204.1	20.0
70°-80°	1038.2	9.4
80°-90°	51.3	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°	11027.0	100.0
0°-180°	11027.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947132

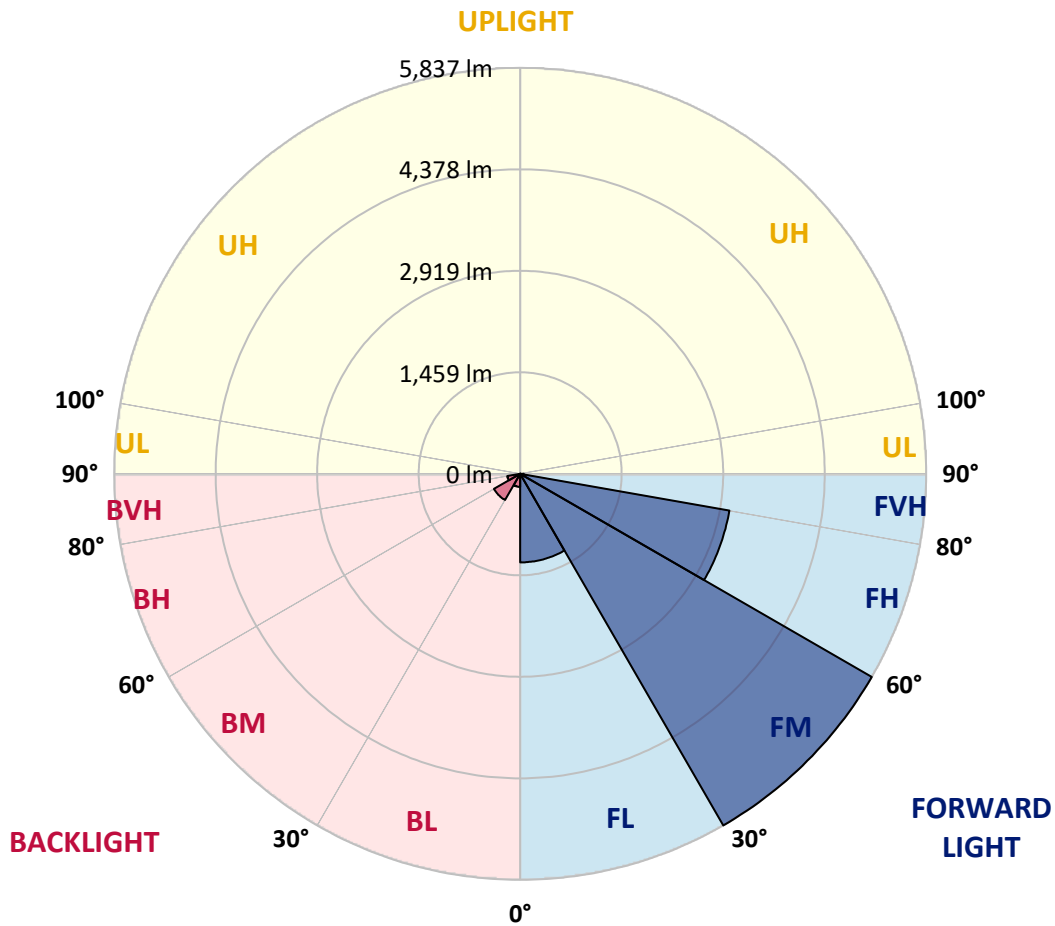
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.5	11.5			
FM (30°-60°)	5837.4	52.9			
FH (60°-80°)	3054.4	27.7			G2/5000
FVH (80°-90°)	50.4	0.5			G1/100
BL (0°-30°)	187.8	1.7	B1/500		
BM (30°-60°)	434.7	3.9	B1/1000		
BH (60°-80°)	187.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
2.5°	1760.5	1771.4	1755.7	1725.6	1680.4	1650.9	1579.0	1511.2	1435.9	1411.9
5°	2146.0	2155.6	2137.8	2104.9	2044.7	1987.1	1892.6	1750.9	1603.7	1556.4
7.5°	2431.5	2437.0	2430.2	2400.0	2342.5	2277.5	2172.0	2004.3	1785.8	1733.8
10°	2637.0	2654.8	2652.7	2641.1	2602.7	2550.0	2437.7	2246.7	1989.9	1922.8
12.5°	2773.2	2793.1	2804.7	2830.7	2828.7	2795.1	2696.5	2494.5	2193.2	2114.5
15°	2812.9	2834.2	2878.7	2938.9	2992.3	3009.5	2940.3	2737.6	2417.2	2316.5
17.5°	2790.3	2823.2	2876.6	2971.8	3088.9	3166.3	3158.7	2972.5	2620.5	2505.5
20°	2840.3	2871.8	2913.6	2993.7	3130.0	3270.4	3326.5	3197.1	2822.5	2702.0
22.5°	3117.0	3111.5	3115.6	3128.6	3210.1	3349.1	3464.8	3401.1	3022.5	2899.2
25°	3555.2	3530.6	3488.8	3418.3	3397.7	3464.8	3585.3	3581.9	3233.4	3101.2
27.5°	4057.8	4053.7	3955.8	3786.0	3690.1	3664.1	3721.6	3757.9	3442.2	3301.2
30°	4539.2	4550.1	4418.0	4229.0	4053.0	3951.0	3898.9	3925.0	3654.5	3516.9
32.5°	4958.3	4969.9	4826.1	4604.9	4387.2	4263.9	4154.4	4090.0	3885.9	3736.0
35°	5312.3	5323.9	5158.9	4914.4	4682.3	4570.7	4446.7	4270.8	4118.8	3979.1
37.5°	5628.6	5625.2	5404.0	5157.5	4929.5	4841.2	4776.1	4493.3	4358.4	4223.5
40°	5815.6	5829.9	5640.9	5369.1	5147.9	5083.6	5079.5	4769.3	4635.1	4504.3
42.5°	5870.3	5895.7	5758.7	5535.5	5334.9	5265.0	5372.5	5067.8	4956.9	4829.5
45°	5771.7	5796.4	5734.1	5579.3	5462.2	5417.0	5624.5	5377.3	5300.6	5174.6
47.5°	5484.1	5515.0	5530.0	5497.1	5495.8	5541.7	5850.5	5703.3	5708.7	5580.0
50°	4927.4	4979.5	5117.8	5234.2	5414.3	5640.3	6070.3	6056.6	6168.9	6058.0
52.5°	3915.4	3989.3	4465.9	4784.3	5189.0	5621.8	6312.0	6623.6	6976.2	6813.9
55°	3146.4	3146.4	3534.0	4129.7	4749.4	5499.9	6417.4	6992.0	7526.1	7487.7
57.5°	2565.1	2595.9	2843.1	3369.6	4113.3	5209.6	6482.5	7223.4	7969.1	7941.0
60°	1583.1	1649.6	2116.6	2636.3	3389.5	4692.6	6441.4	7457.6	8506.6	8529.2
62.5°	891.5	916.2	1124.4	1896.7	2635.6	3997.6	6127.1	7588.4	9194.1	9290.0
65°	615.6	627.9	708.0	1180.5	1826.9	3182.7	5512.9	7506.9	9883.0	10076.7
67.5°	447.1	453.3	503.3	721.0	1084.0	2307.6	4550.1	7096.0	10247.9	10571.8
70°	343.7	347.9	384.1	473.8	640.2	1424.3	3304.6	6279.1	9983.6	10370.5
72.5°	279.4	283.5	311.6	350.6	424.5	842.2	2002.9	5099.3	8816.8	9234.5
75°	235.6	241.0	266.4	291.7	332.8	541.0	939.5	3551.1	6630.4	6904.3
77.5°	130.8	120.5	216.4	241.7	280.7	342.4	439.6	2089.8	3713.4	3789.4
80°	81.5	84.2	171.9	194.5	215.7	172.6	201.3	804.6	1287.3	1223.0
82.5°	4.8	11.0	132.2	140.4	147.9	74.0	76.0	273.2	310.2	284.9
85°	0.0	0.0	60.3	48.6	51.4	21.2	21.9	63.7	41.8	45.2
87.5°	0.0	0.0	0.0	1.4	0.0	2.1	4.1	5.5	2.1	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947132  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1271.6	0°	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6	1271.6
1336.6	2.5°	1288.7	1240.8	1143.5	1048.3	971.0	899.1	847.7	799.1	774.4	773.1
1422.9	5°	1327.7	1227.1	1032.6	860.7	722.4	611.5	539.6	488.2	462.2	453.3
1529.0	7.5°	1382.5	1231.2	935.4	696.4	533.4	438.2	397.2	380.7	375.2	369.1
1648.9	10°	1451.7	1240.8	848.4	560.8	420.4	372.5	356.1	349.2	345.1	341.0
1783.8	12.5°	1529.0	1249.7	762.1	465.6	369.8	345.1	333.5	325.3	319.8	315.0
1922.1	15°	1604.4	1255.1	672.4	399.2	343.7	323.9	311.6	302.7	295.1	289.6
2057.7	17.5°	1679.0	1262.7	588.2	359.5	322.5	302.7	290.3	279.4	273.2	267.1
2200.1	20°	1761.9	1261.3	508.8	331.4	301.3	281.4	268.4	258.1	252.0	245.1
2350.7	22.5°	1838.5	1254.5	438.9	307.5	279.4	260.2	245.8	235.6	229.4	223.9
2504.8	25°	1926.9	1249.0	380.7	285.5	258.8	239.7	223.9	214.3	207.5	202.7
2659.6	27.5°	2011.8	1240.8	338.3	265.7	239.0	220.5	205.4	194.5	188.3	184.9
2819.1	30°	2095.3	1238.7	322.5	246.5	221.2	202.7	187.6	177.3	172.6	171.2
2994.4	32.5°	2196.0	1244.2	329.4	239.7	204.7	186.3	171.9	164.3	159.5	159.5
3189.6	35°	2303.5	1242.8	339.6	245.8	193.8	169.8	158.9	154.1	149.3	149.3
3405.9	37.5°	2438.4	1244.9	347.9	256.1	189.7	156.1	150.0	143.8	141.1	141.1
3642.9	40°	2639.7	1312.7	343.7	265.0	188.3	146.5	134.2	132.2	130.1	130.1
3910.6	42.5°	2886.2	1459.9	349.2	265.7	187.6	139.7	123.3	127.4	122.6	121.9
4212.6	45°	3156.0	1620.8	384.1	251.3	186.9	136.3	117.8	122.6	115.0	115.0
4562.5	47.5°	3423.7	1780.3	419.7	230.8	184.9	135.6	113.0	110.2	108.2	108.9
5018.5	50°	3792.8	1910.4	433.4	202.7	180.1	134.2	104.1	104.8	103.4	104.8
5661.5	52.5°	4194.8	1937.8	417.0	171.2	166.4	130.1	97.9	100.7	100.0	101.3
6114.1	55°	4445.4	1908.4	344.4	142.4	145.2	113.7	91.8	97.2	97.2	97.2
6556.5	57.5°	4704.2	1783.1	244.5	115.7	120.5	93.1	86.3	93.8	93.1	92.4
7089.2	60°	4890.5	1580.4	160.9	95.2	95.9	76.7	80.1	88.3	87.6	84.2
7638.4	62.5°	5029.5	1356.5	103.4	80.8	73.3	69.2	73.3	80.1	77.4	69.8
8104.0	65°	5013.7	1046.3	79.4	69.2	60.3	60.3	63.7	69.8	61.6	49.3
<b>8193.0</b>	67.5°	<b>4721.3</b>	<b>708.0</b>	<b>65.7</b>	<b>58.2</b>	<b>50.7</b>	<b>50.0</b>	<b>52.7</b>	<b>58.2</b>	<b>52.7</b>	<b>41.8</b>
7737.0	70°	4198.9	462.9	52.7	45.2	40.4	37.0	42.5	50.0	44.5	33.6
6586.6	72.5°	3408.0	282.1	39.7	32.9	29.4	24.0	33.6	41.1	35.6	24.7
4580.3	75°	2204.9	143.8	27.4	21.2	15.7	14.4	24.7	30.8	24.7	15.1
2032.3	77.5°	843.6	60.3	15.1	9.6	8.2	6.8	13.7	18.5	10.3	3.4
393.7	80°	162.3	25.3	7.5	4.8	4.1	2.7	2.1	1.4	0.0	0.0
69.8	82.5°	28.1	8.2	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
13.7	85°	9.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.8	87.5°	3.4	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>
1271.6
771.7
451.9
367.7
339.6
313.6
289.0
266.4
244.5
223.2
202.0
184.9
170.5
159.5
149.3
141.1
130.1
121.2
115.0
108.9
104.8
101.3
97.2
92.4
84.2
68.5
47.9
40.4
32.2
23.3
13.0
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