

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: P955704

Luminaire Tested: **GALN-SB8C-827-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

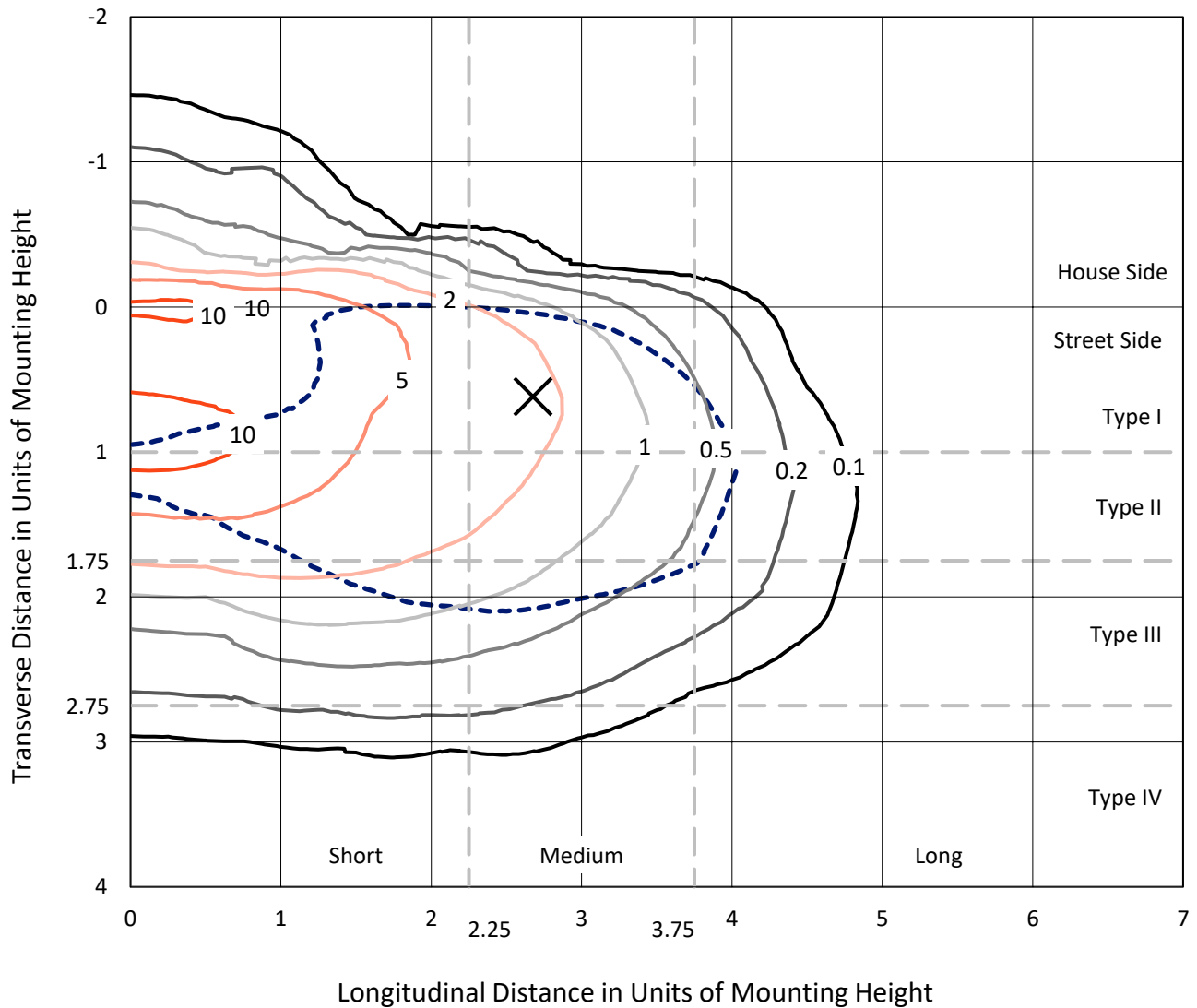
Lumens per Lamp: N/A  
Luminaire Lumens: 43841 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

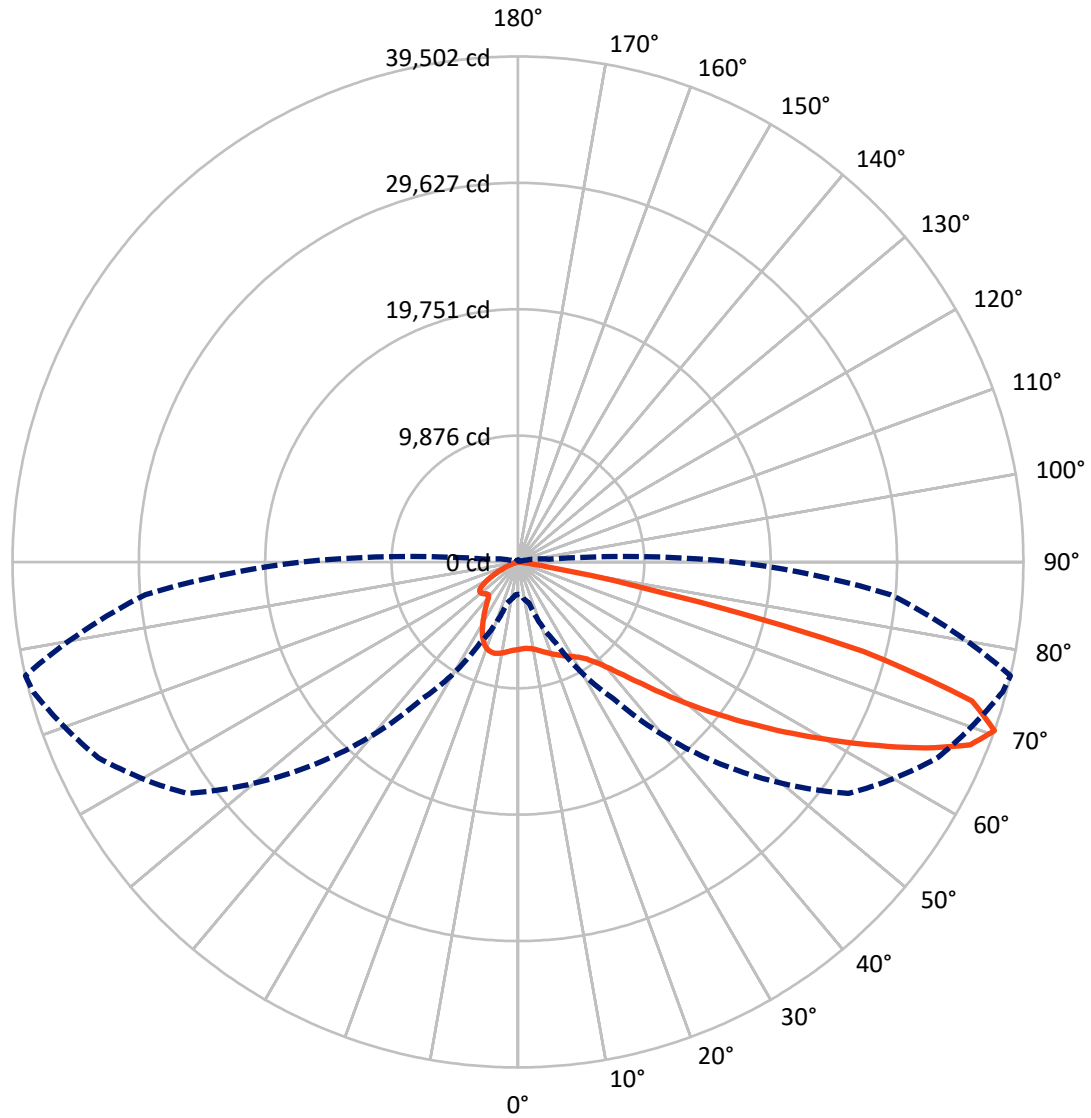
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4621.5	0.0	4621.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	39219.5	0.0	39219.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	43841.0	0.0	43841.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	589.4	1.3
10°-20°	1399.1	3.2
20°-30°	2164.0	4.9
30°-40°	3926.7	9.0
40°-50°	7412.1	16.9
50°-60°	10709.8	24.4
60°-70°	11400.3	26.0
70°-80°	6041.4	13.8
80°-90°	198.4	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°	43841.0	100.0
0°-180°	43841.0	100.0

**Coefficient of Utilization**



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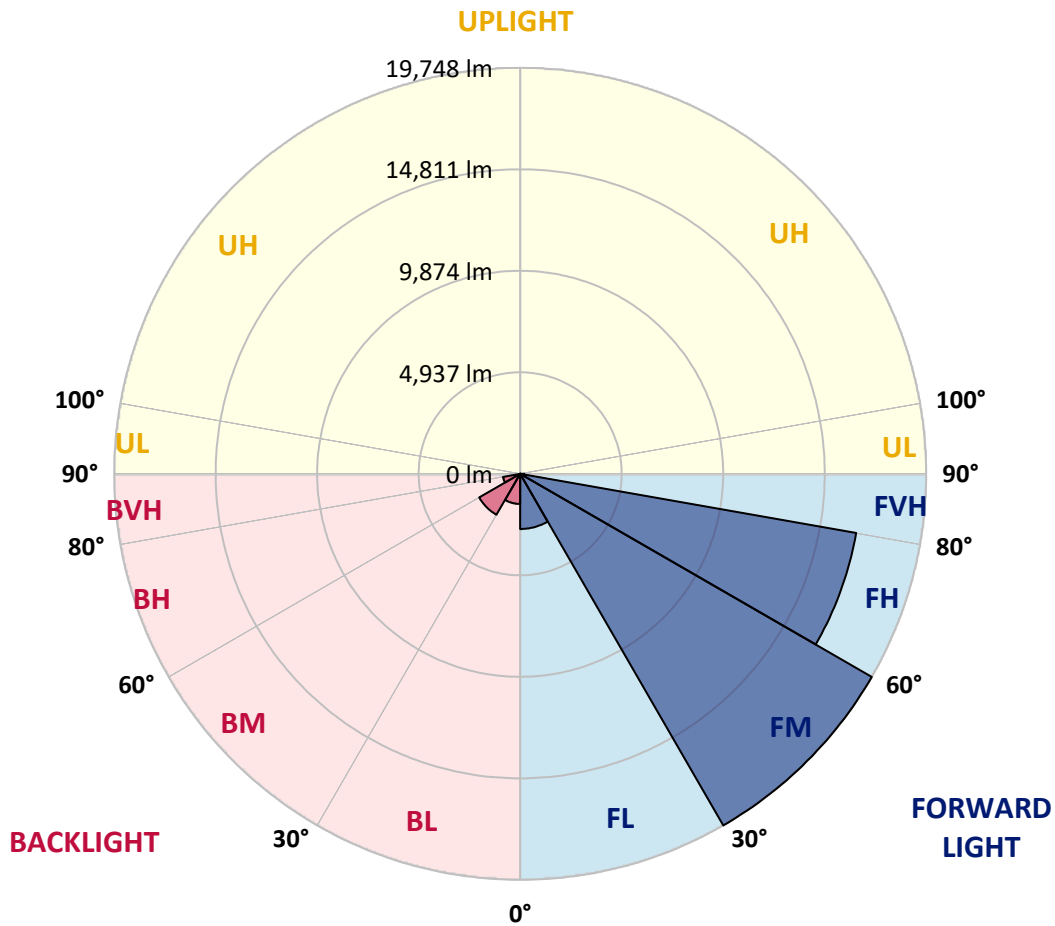
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2684.1	6.1			
FM (30°-60°)	19748.0	45.0			
FH (60°-80°)	16594.4	37.9			G5
FVH (80°-90°)	193.0	0.4			G2/225
BL (0°-30°)	1468.3	3.3	B3/2500		
BM (30°-60°)	2300.6	5.2	B2/2500		
BH (60°-80°)	847.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4
2.5°	6420.3	6478.5	6470.2	6508.9	6522.8	6578.2	6633.5	6708.3	6791.3	6788.6
5°	6057.7	6115.8	6129.6	6182.2	6248.7	6334.5	6448.0	6597.5	6752.6	6777.5
7.5°	5628.5	5689.4	5725.4	5830.6	5952.5	6129.6	6315.1	6533.9	6791.3	6827.3
10°	5199.4	5254.8	5301.8	5451.3	5645.1	5908.2	6209.9	6525.6	6871.6	6924.2
12.5°	4933.6	4986.2	5038.8	5168.9	5409.8	5731.0	6140.7	6564.3	7004.5	7079.3
15°	4839.5	4886.6	4928.1	5044.4	5268.6	5634.1	6126.9	6644.6	7173.4	7273.1
17.5°	4853.3	4878.2	4905.9	4994.5	5213.2	5589.8	6151.8	6783.0	7372.7	7461.3
20°	4933.6	4947.5	4950.2	5011.1	5204.9	5584.2	6201.6	6915.9	7561.0	7680.1
22.5°	5036.1	5041.6	5036.1	5077.6	5257.5	5625.8	6268.1	7076.5	7771.4	7882.2
25°	5515.0	5409.8	5276.9	5196.6	5346.1	5706.1	6367.7	7292.5	8001.2	8109.2
27.5°	7001.8	6700.0	6223.8	5689.4	5528.9	5822.3	6506.2	7511.2	8233.8	8330.7
30°	9416.0	9020.0	8211.6	7007.3	6115.8	6066.0	6686.1	7729.9	8480.2	8585.4
32.5°	11835.7	11738.8	10805.8	9139.1	7436.4	6608.6	6985.1	8026.1	8806.9	8889.9
35°	14283.1	14086.6	13322.4	11675.1	9471.3	7713.3	7483.5	8413.7	9236.0	9330.1
37.5°	16157.5	16038.4	15565.0	14208.4	11885.5	9418.7	8336.2	9014.5	9858.9	9964.1
40°	17813.1	17757.7	17597.1	16702.9	14584.9	11650.2	9662.4	9944.8	10722.7	10847.3
42.5°	19114.3	19244.4	19335.8	19086.6	17367.3	14197.3	11445.3	11251.5	11927.1	12054.4
45°	20446.0	20490.3	20858.5	21218.4	20130.4	16860.7	13455.3	12782.6	13424.9	13582.7
47.5°	21301.5	21478.7	22126.5	22760.5	22453.2	19501.9	15614.8	14590.4	15160.8	15457.0
50°	21365.2	21700.2	22591.7	23696.3	24144.8	22015.8	17962.6	16650.3	17256.6	17583.3
52.5°	20304.8	20825.3	22206.8	23823.7	25058.5	24144.8	20390.6	18710.1	19488.1	19914.4
55°	15567.8	16248.8	20758.8	23131.5	25094.5	25758.9	22755.0	20855.7	21974.3	22456.0
57.5°	13563.3	13906.6	16320.8	21930.0	24427.2	26409.5	24892.3	22899.0	24679.2	25277.2
60°	11284.8	11736.0	13687.9	19964.3	23521.9	26473.2	26780.5	25534.7	27611.1	28283.9
62.5°	7669.0	8159.0	10099.8	16586.6	22284.3	26442.8	28328.2	28247.9	30869.7	31592.3
65°	4750.9	5058.2	6337.3	13543.9	20554.0	26476.0	29947.8	31542.5	34308.3	35042.0
67.5°	3754.2	3895.4	4562.6	10398.8	17572.2	25728.5	31564.6	34640.5	37544.8	38126.2
70°	2522.2	2608.0	3319.5	6971.3	13073.3	22278.8	31534.2	36196.5	39211.5	39502.2
72.5°	1328.9	1395.4	1940.8	3228.2	7896.0	15836.3	26581.2	34336.0	37553.1	37115.6
75°	664.5	775.2	1306.8	1639.0	3372.1	8831.8	16506.3	27071.2	29557.4	27863.0
77.5°	503.9	609.1	1079.7	1079.7	1173.9	2973.5	6990.7	14764.9	13618.7	11340.1
80°	321.2	415.3	944.1	816.7	490.0	755.8	1821.7	4136.3	2893.2	2201.0
82.5°	188.3	271.3	786.3	539.9	274.1	279.6	515.0	880.4	750.3	584.2
85°	74.8	177.2	539.9	213.2	108.0	69.2	155.0	188.3	155.0	116.3
87.5°	0.0	41.5	94.1	0.0	8.3	5.5	11.1	13.8	13.8	11.1
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°
6838.4	0°	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4	6838.4
6843.9	2.5°	6868.9	6874.4	6891.0	6893.8	6855.0	6805.2	6785.8	6777.5	6744.3	6741.5
6888.2	5°	6951.9	6976.8	6951.9	6879.9	6708.3	6467.4	6284.7	6135.2	5999.5	5958.0
7040.5	7.5°	7118.0	7142.9	7068.2	6785.8	6353.9	5874.9	5443.0	5138.5	4864.4	4762.0
7226.0	10°	7356.1	7389.4	7154.0	6583.7	5819.6	5049.9	4319.0	3804.0	3402.6	3239.2
7477.9	12.5°	7655.1	7669.0	7201.1	6276.4	5124.7	4025.5	2990.1	2439.1	2082.0	1949.1
7782.5	15°	7984.6	7965.2	7206.6	5858.3	4177.8	2846.1	1951.9	1603.0	1459.0	1414.7
8087.0	17.5°	8330.7	8250.4	7095.9	5254.8	3139.6	1946.3	1448.0	1364.9	1340.0	1328.9
8388.8	20°	8671.2	8491.2	6893.8	4465.7	2253.6	1453.5	1315.1	1290.2	1276.3	1270.8
8693.4	22.5°	8981.3	8674.0	6547.7	3549.3	1636.2	1284.6	1243.1	1220.9	1196.0	1185.0
8989.6	25°	9283.1	8779.2	6060.4	2693.8	1309.5	1201.6	1168.3	1126.8	1093.6	1079.7
9308.0	27.5°	9576.5	8845.6	5451.3	1993.4	1168.3	1124.0	1063.1	1005.0	980.1	974.5
9648.5	30°	9889.4	8867.8	4759.2	1486.7	1082.5	1027.1	938.6	872.1	858.3	861.0
10108.1	32.5°	10271.4	8901.0	4061.5	1218.2	1010.5	910.9	805.7	736.4	725.4	736.4
10778.1	35°	10728.3	8967.4	3388.7	1121.3	946.9	791.8	678.3	620.2	609.1	617.4
11636.4	37.5°	11348.4	9075.4	2760.3	1101.9	894.3	692.1	570.3	523.3	523.3	526.0
12688.4	40°	12173.5	9363.4	2198.3	1088.1	866.6	617.4	481.7	462.4	470.7	476.2
14028.4	42.5°	13178.5	9975.2	1819.0	1071.4	836.1	584.2	437.4	429.1	443.0	448.5
15634.2	45°	14305.3	10750.4	1686.1	1043.8	808.4	606.3	418.1	407.0	423.6	426.4
17433.8	47.5°	15470.9	11509.0	1669.5	1013.3	780.7	639.5	412.5	387.6	407.0	409.8
19355.2	50°	16650.3	12004.6	1686.1	966.2	736.4	639.5	415.3	368.2	384.8	393.1
21348.6	52.5°	17838.0	12231.6	1675.0	863.8	658.9	600.8	415.3	351.6	368.2	373.8
23502.5	55°	18989.7	12187.3	1506.1	711.5	559.3	531.6	404.2	337.8	348.8	351.6
25537.4	57.5°	19900.6	11569.9	1193.3	553.7	454.0	443.0	368.2	321.2	329.5	326.7
27403.5	60°	20376.8	10213.3	852.7	426.4	357.1	348.8	323.9	299.0	304.5	290.7
28984.3	62.5°	20382.3	8419.3	570.3	337.8	285.2	276.9	276.9	268.6	263.0	235.3
30208.0	65°	19947.7	6428.7	379.3	268.6	229.8	215.9	232.6	229.8	210.4	171.7
30581.8	67.5°	18962.0	4213.8	287.9	210.4	177.2	168.9	185.5	193.8	180.0	144.0
29219.6	70°	16935.4	2453.0	238.1	163.3	132.9	124.6	149.5	166.1	149.5	116.3
24975.4	72.5°	14067.2	1323.4	193.8	121.8	91.4	83.1	119.0	135.7	119.0	85.8
16024.6	75°	9128.0	708.8	149.5	80.3	47.1	52.6	88.6	99.7	83.1	55.4
4703.8	77.5°	3064.8	312.9	94.1	38.8	22.1	22.1	52.6	60.9	38.8	19.4
855.5	80°	683.8	130.1	38.8	16.6	8.3	8.3	11.1	11.1	5.5	0.0
263.0	82.5°	224.3	52.6	16.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0
66.4	85°	85.8	19.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.1	87.5°	33.2	2.8	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>
6838.4
6747.0
5933.1
4720.4
3170.0
1907.6
1414.7
1326.2
1265.2
1182.2
1074.2
969.0
861.0
733.7
614.6
523.3
476.2
448.5
429.1
412.5
395.9
373.8
351.6
326.7
287.9
227.0
166.1
141.2
110.7
83.1
49.8
16.6
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