

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: P951777

Luminaire Tested: **GALN-SB5D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951777
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-SB5D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA 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: 37213.1 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

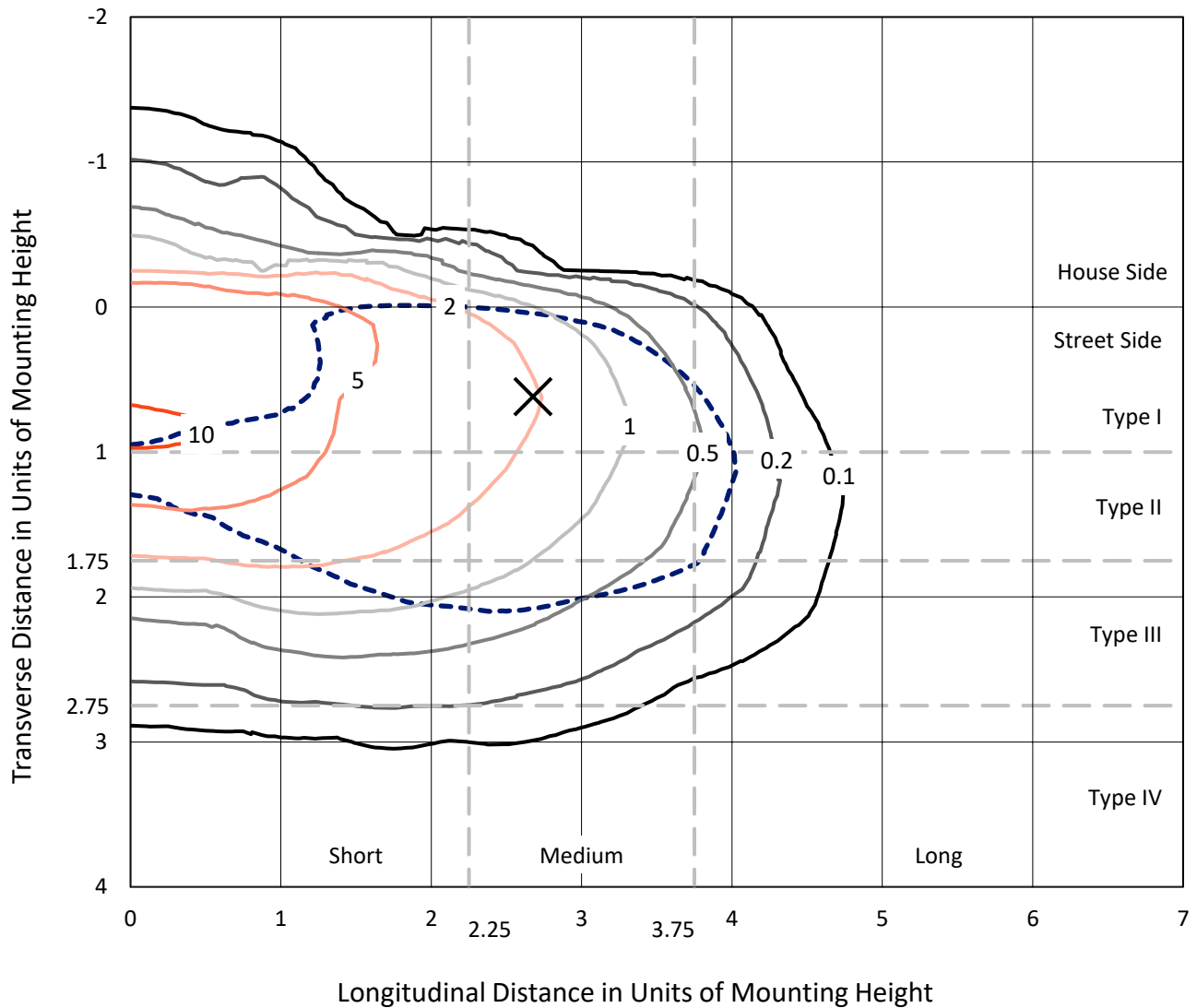
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951777
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Iso-Footcandle Lines of Horizontal Illumination

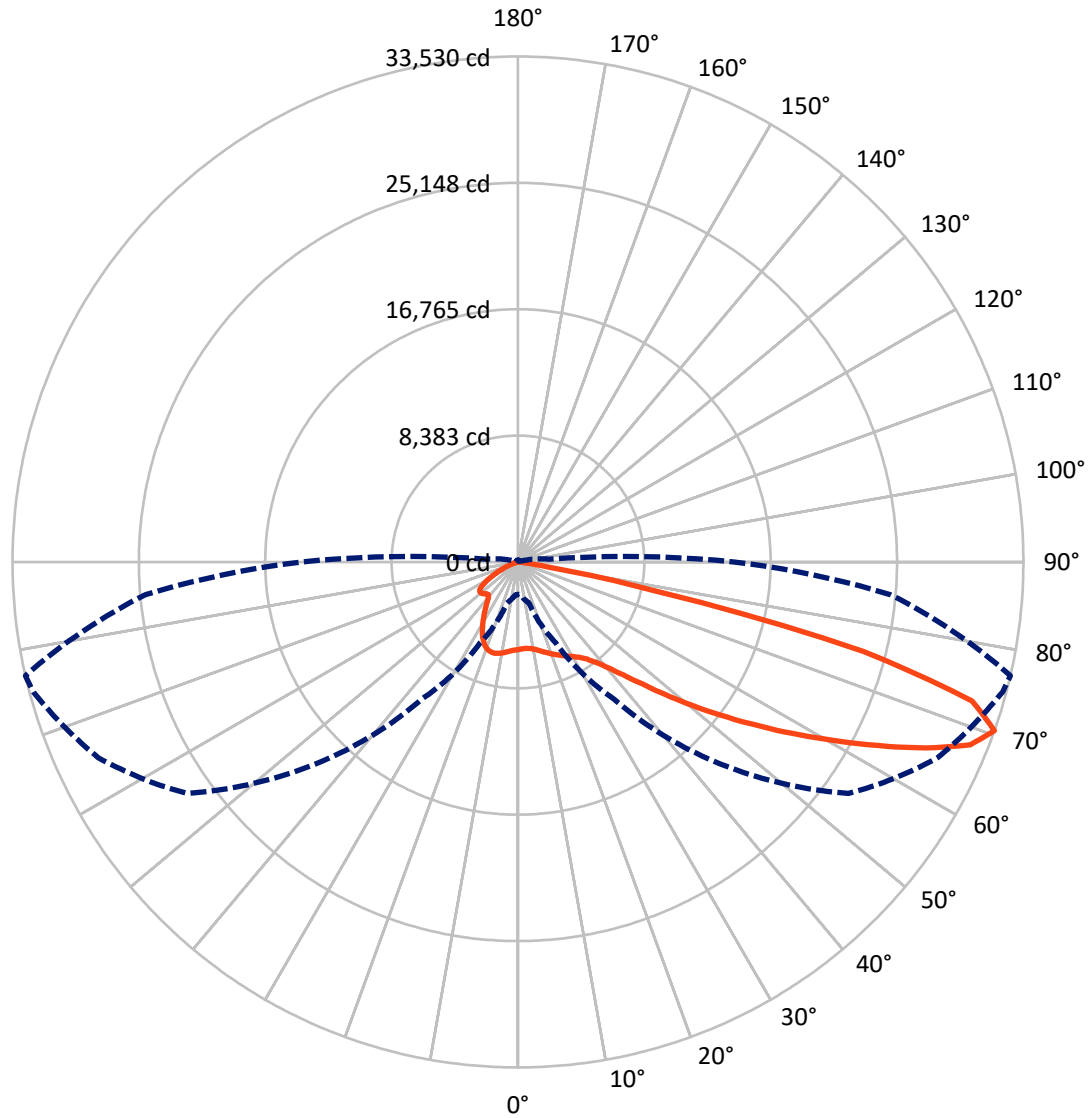
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P951777
CATALOG NUMBER: GALN-SB5D-827-U-T3R-HSS

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
House Side	Lumens	3922.8	0.0	3922.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	33290.2	0.0	33290.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	37213.1	0.0	37213.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.3	1.3
10°-20°	1187.6	3.2
20°-30°	1836.8	4.9
30°-40°	3333.0	9.0
40°-50°	6291.5	16.9
50°-60°	9090.7	24.4
60°-70°	9676.8	26.0
70°-80°	5128.0	13.8
80°-90°	168.4	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°	37213.1	100.0
0°-180°	37213.1	100.0

Coefficient of Utilization



REPORT NUMBER: P951777

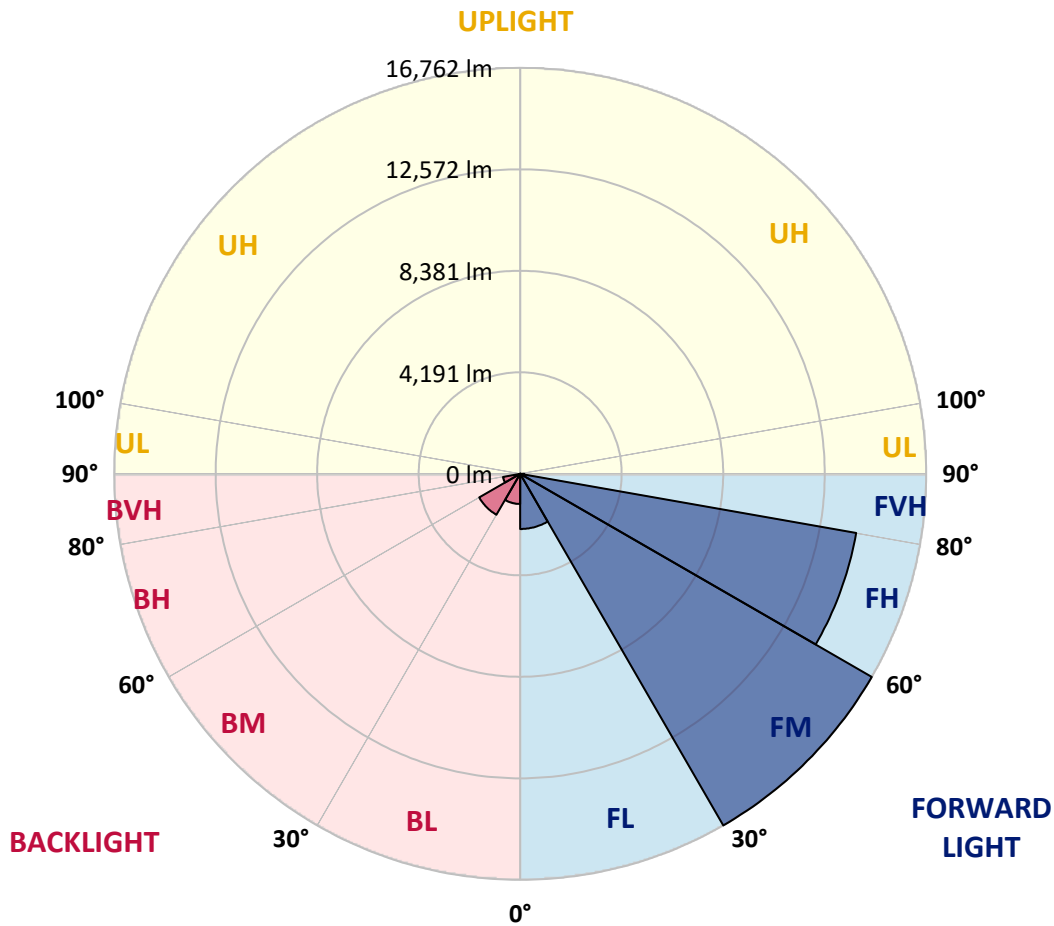
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2278.3	6.1			
FM (30°-60°)	16762.4	45.0			
FH (60°-80°)	14085.7	37.9			G5
FVH (80°-90°)	163.9	0.4			G2/225
BL (0°-30°)	1246.3	3.3	B3/2500		
BM (30°-60°)	1952.8	5.2	B2/2500		
BH (60°-80°)	719.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	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



REPORT NUMBER: P951777

CATALOG NUMBER: GALN-SB5D-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6
2.5°	5449.7	5499.1	5492.0	5524.9	5536.7	5583.7	5630.7	5694.1	5764.6	5762.3
5°	5141.8	5191.2	5203.0	5247.6	5304.0	5376.9	5473.2	5600.1	5731.7	5752.9
7.5°	4777.6	4829.3	4859.8	4949.1	5052.5	5203.0	5360.4	5546.1	5764.6	5795.2
10°	4413.3	4460.3	4500.3	4627.2	4791.7	5014.9	5271.1	5539.0	5832.8	5877.4
12.5°	4187.7	4232.4	4277.0	4387.5	4591.9	4864.5	5212.4	5571.9	5945.6	6009.0
15°	4107.8	4147.8	4183.0	4281.7	4472.1	4782.3	5200.6	5640.1	6088.9	6173.5
17.5°	4119.6	4140.7	4164.2	4239.4	4425.1	4744.7	5221.8	5757.6	6258.1	6333.3
20°	4187.7	4199.5	4201.8	4253.5	4418.0	4740.0	5264.1	5870.4	6417.9	6519.0
22.5°	4274.7	4279.4	4274.7	4309.9	4462.7	4775.2	5320.5	6006.7	6596.5	6690.5
25°	4681.2	4591.9	4479.1	4411.0	4537.9	4843.4	5405.1	6190.0	6791.6	6883.2
27.5°	5943.2	5687.1	5282.9	4829.3	4693.0	4942.1	5522.6	6375.6	6989.0	7071.2
30°	7992.4	7656.4	6970.2	5947.9	5191.2	5148.9	5675.3	6561.3	7198.1	7287.4
32.5°	10046.3	9964.1	9172.1	7757.4	6312.2	5609.5	5929.1	6812.7	7475.4	7545.9
35°	12123.8	11956.9	11308.3	9910.0	8039.4	6547.2	6352.1	7141.7	7839.7	7919.6
37.5°	13714.7	13613.7	13211.8	12060.3	10088.6	7994.8	7075.9	7651.7	8368.4	8457.7
40°	15120.0	15073.0	14936.7	14177.7	12379.9	9888.9	8201.6	8441.3	9101.6	9207.4
42.5°	16224.6	16335.0	16412.6	16201.1	14741.7	12050.9	9715.0	9550.5	10123.9	10232.0
45°	17354.9	17392.5	17705.1	18010.6	17087.0	14311.6	11421.1	10850.1	11395.3	11529.2
47.5°	18081.1	18231.5	18781.4	19319.5	19058.7	16553.6	13254.1	12384.6	12868.7	13120.2
50°	18135.1	18419.5	19176.2	20113.8	20494.5	18687.4	15246.9	14133.0	14647.7	14925.0
52.5°	17235.1	17676.9	18849.5	20221.9	21270.1	20494.5	17307.9	15881.5	16541.8	16903.7
55°	13214.2	13792.3	17620.5	19634.4	21300.6	21864.6	19314.8	17702.7	18652.1	19061.0
57.5°	11512.8	11804.2	13853.4	18614.5	20734.2	22416.9	21129.1	19437.0	20948.1	21455.7
60°	9578.7	9961.7	11618.5	16946.0	19965.8	22470.9	22731.8	21674.3	23436.8	24007.8
62.5°	6509.6	6925.5	8572.9	14079.0	18915.3	22445.1	24045.4	23977.3	26202.8	26816.1
65°	4032.6	4293.5	5379.2	11496.3	17446.6	22473.3	25420.2	26773.8	29121.5	29744.2
67.5°	3186.6	3306.5	3872.8	8826.7	14915.6	21838.8	26792.6	29403.5	31868.7	32362.2
70°	2140.9	2213.7	2817.7	5917.4	11096.8	18910.6	26766.8	30724.2	33283.4	33530.1
72.5°	1128.0	1184.4	1647.4	2740.1	6702.3	13442.1	22562.6	29145.0	31875.7	31504.4
75°	564.0	658.0	1109.2	1391.2	2862.3	7496.6	14010.8	22978.5	25088.8	23650.6
77.5°	427.7	517.0	916.5	916.5	996.4	2523.9	5933.8	12532.7	11559.8	9625.7
80°	272.6	352.5	801.4	693.3	416.0	641.6	1546.3	3510.9	2455.8	1868.3
82.5°	159.8	230.3	667.4	458.3	232.7	237.4	437.1	747.3	636.9	495.9
85°	63.5	150.4	458.3	181.0	91.7	58.8	131.6	159.8	131.6	98.7
87.5°	0.0	35.3	79.9	0.0	7.1	4.7	9.4	11.8	11.8	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951777
 CATALOG NUMBER: GALN-SB5D-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5804.6	0°	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6	5804.6
5809.3	2.5°	5830.4	5835.1	5849.2	5851.6	5818.7	5776.4	5759.9	5752.9	5724.7	5722.3
5846.9	5°	5900.9	5922.1	5900.9	5839.8	5694.1	5489.7	5334.6	5207.7	5092.5	5057.2
5976.1	7.5°	6041.9	6063.1	5999.6	5759.9	5393.3	4986.7	4620.1	4361.6	4129.0	4042.0
6133.6	10°	6244.0	6272.2	6072.5	5588.4	4939.7	4286.4	3666.0	3228.9	2888.2	2749.5
6347.4	12.5°	6497.8	6509.6	6112.4	5327.5	4349.9	3416.9	2538.0	2070.4	1767.2	1654.4
6605.9	15°	6777.5	6761.0	6117.1	4972.6	3546.2	2415.8	1656.8	1360.7	1238.5	1200.9
6864.4	17.5°	7071.2	7003.1	6023.1	4460.3	2664.9	1652.1	1229.1	1158.6	1137.4	1128.0
7120.6	20°	7360.3	7207.5	5851.6	3790.6	1912.9	1233.8	1116.3	1095.1	1083.4	1078.7
7379.1	22.5°	7623.5	7362.6	5557.8	3012.7	1388.9	1090.4	1055.2	1036.4	1015.2	1005.8
7630.5	25°	7879.6	7451.9	5144.2	2286.6	1111.6	1019.9	991.7	956.5	928.3	916.5
7900.8	27.5°	8128.7	7508.3	4627.2	1692.0	991.7	954.1	902.4	853.1	831.9	827.2
8189.8	30°	8394.3	7527.1	4039.7	1262.0	918.9	871.9	796.7	740.3	728.5	730.9
8579.9	32.5°	8718.6	7555.3	3447.5	1034.0	857.8	773.2	683.9	625.1	615.7	625.1
9148.6	35°	9106.3	7611.7	2876.4	951.8	803.7	672.1	575.8	526.4	517.0	524.1
9877.1	37.5°	9632.7	7703.4	2343.0	935.3	759.1	587.5	484.1	444.2	444.2	446.5
10770.2	40°	10333.0	7947.8	1865.9	923.6	735.6	524.1	408.9	392.5	399.5	404.2
11907.6	42.5°	11186.1	8467.1	1544.0	909.5	709.7	495.9	371.3	364.3	376.0	380.7
13270.6	45°	12142.6	9125.1	1431.2	886.0	686.2	514.7	354.9	345.5	359.6	361.9
14798.1	47.5°	13131.9	9769.0	1417.1	860.1	662.7	542.9	350.2	329.0	345.5	347.8
16429.0	50°	14133.0	10189.7	1431.2	820.2	625.1	542.9	352.5	312.6	326.7	333.7
18121.0	52.5°	15141.2	10382.4	1421.8	733.2	559.3	510.0	352.5	298.5	312.6	317.3
19949.3	55°	16118.8	10344.8	1278.4	604.0	474.7	451.2	343.1	286.7	296.1	298.5
21676.6	57.5°	16892.0	9820.7	1012.9	470.0	385.4	376.0	312.6	272.6	279.7	277.3
23260.5	60°	17296.2	8669.2	723.8	361.9	303.2	296.1	275.0	253.8	258.5	246.8
24602.4	62.5°	17300.9	7146.4	484.1	286.7	242.1	235.0	235.0	228.0	223.3	199.8
25641.1	65°	16931.9	5456.8	322.0	228.0	195.1	183.3	197.4	195.1	178.6	145.7
25958.4	67.5°	16095.3	3576.7	244.4	178.6	150.4	143.4	157.5	164.5	152.8	122.2
24802.1	70°	14375.1	2082.1	202.1	138.7	112.8	105.8	126.9	141.0	126.9	98.7
21199.6	72.5°	11940.5	1123.3	164.5	103.4	77.6	70.5	101.1	115.2	101.1	72.9
13601.9	75°	7748.0	601.6	126.9	68.2	40.0	44.7	75.2	84.6	70.5	47.0
3992.7	77.5°	2601.5	265.6	79.9	32.9	18.8	18.8	44.7	51.7	32.9	16.5
726.2	80°	580.5	110.5	32.9	14.1	7.1	7.1	9.4	9.4	4.7	0.0
223.3	82.5°	190.4	44.7	14.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0
56.4	85°	72.9	16.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.8	87.5°	28.2	2.4	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>
5804.6
5727.0
5036.1
4006.8
2690.8
1619.2
1200.9
1125.7
1074.0
1003.5
911.8
822.5
730.9
622.8
521.7
444.2
404.2
380.7
364.3
350.2
336.1
317.3
298.5
277.3
244.4
192.7
141.0
119.9
94.0
70.5
42.3
14.1
0.0
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0.0
0.0
0.0

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