

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: P954360

Luminaire Tested: **GALN-SB7C-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954360
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-SB7C-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 42413 lumens
Efficiency: N/A
Efficacy: 121.0 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

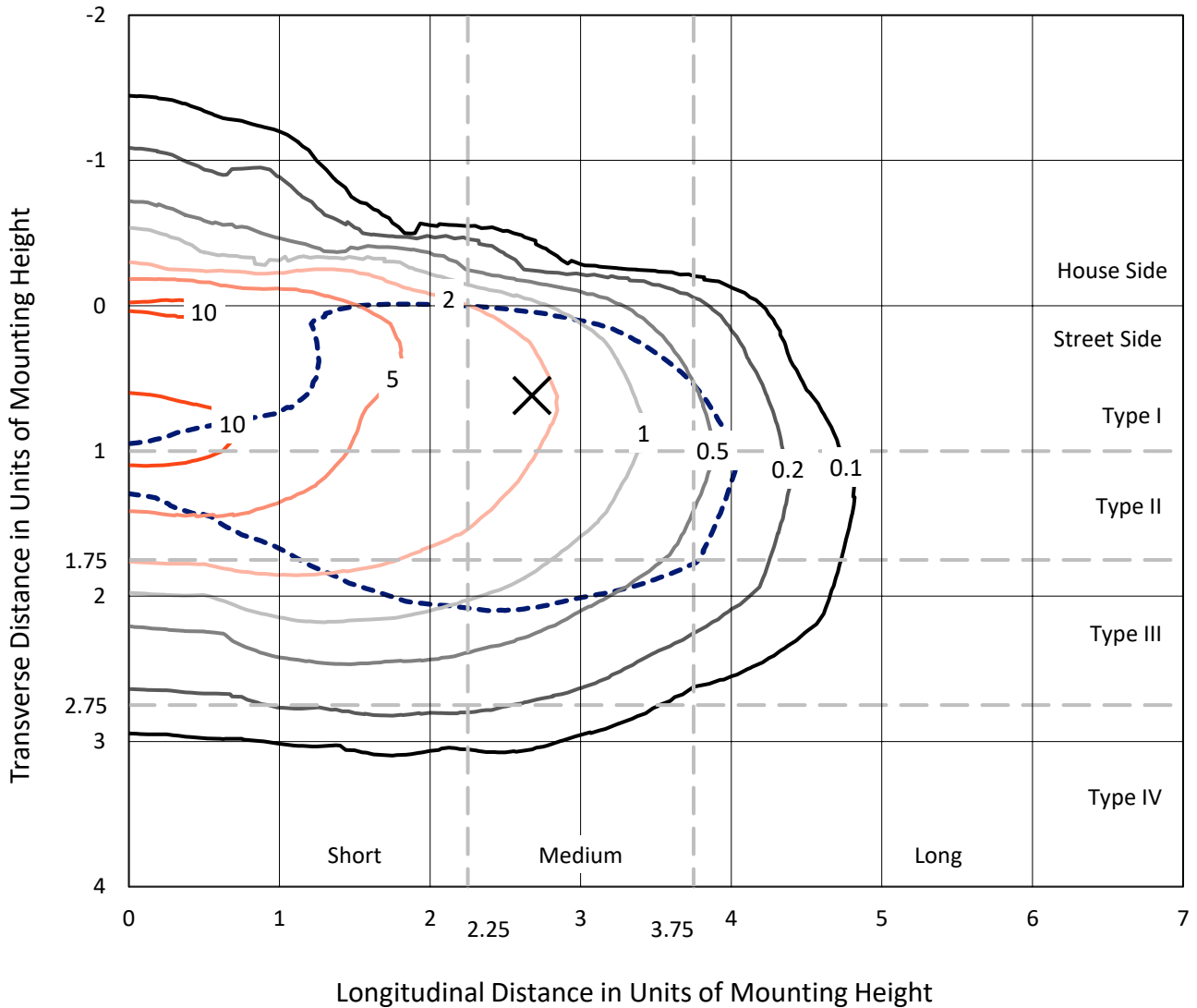
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

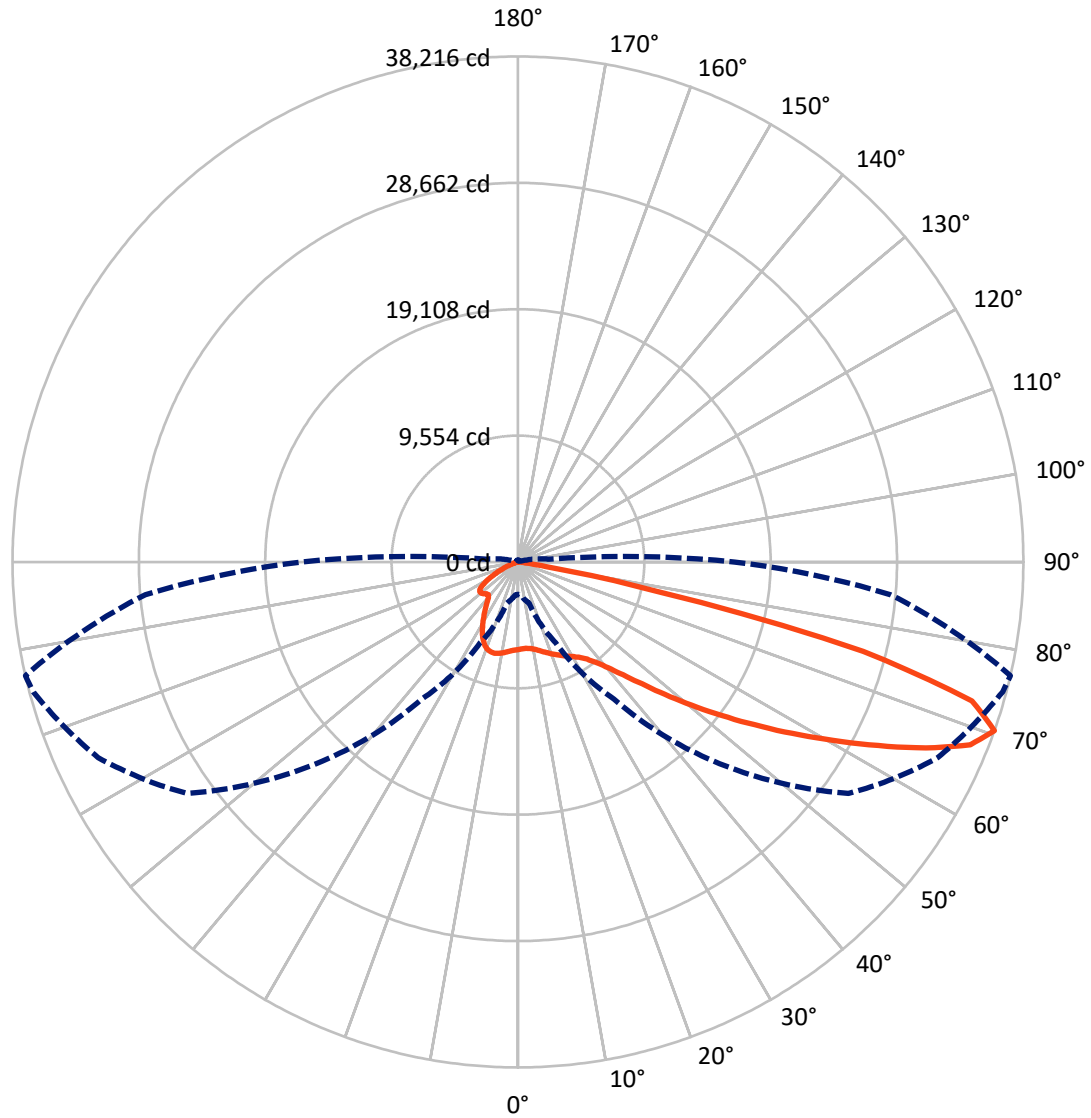
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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
House Side	Lumens	4470.9	0.0	4470.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	37942.1	0.0	37942.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	42413.0	0.0	42413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.2	1.3
10°-20°	1353.5	3.2
20°-30°	2093.5	4.9
30°-40°	3798.8	9.0
40°-50°	7170.6	16.9
50°-60°	10361.0	24.4
60°-70°	11029.0	26.0
70°-80°	5844.6	13.8
80°-90°	191.9	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°	42413.0	100.0
0°-180°	42413.0	100.0

Coefficient of Utilization



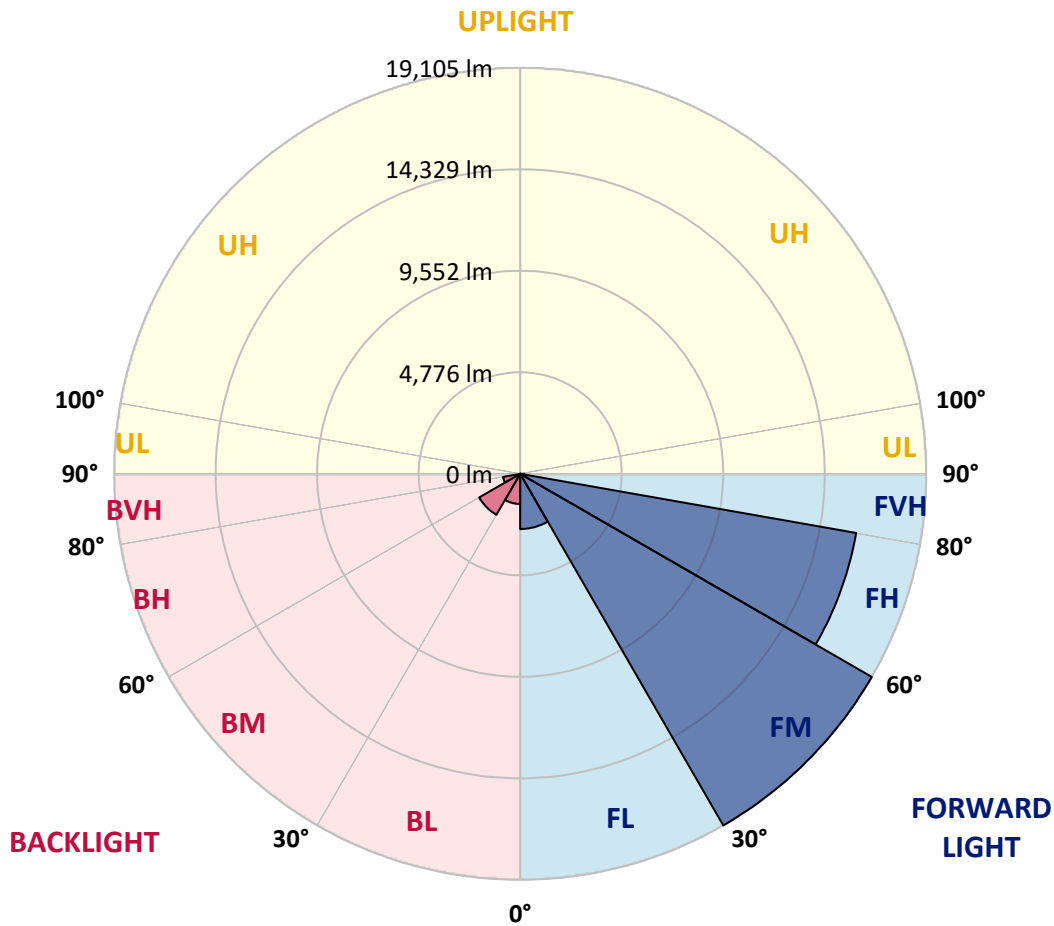
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2596.7	6.1			
FM (30°-60°)	19104.7	45.0			
FH (60°-80°)	16053.9	37.9			G5
FVH (80°-90°)	186.7	0.4			G2/225
BL (0°-30°)	1420.5	3.3	B3/2500		
BM (30°-60°)	2225.6	5.2	B2/2500		
BH (60°-80°)	819.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7
2.5°	6211.2	6267.5	6259.4	6296.9	6310.3	6363.9	6417.5	6489.8	6570.1	6567.5
5°	5860.4	5916.6	5930.0	5980.9	6045.2	6128.2	6238.0	6382.6	6532.6	6556.7
7.5°	5445.2	5504.1	5538.9	5640.7	5758.6	5930.0	6109.4	6321.0	6570.1	6604.9
10°	5030.0	5083.6	5129.1	5273.8	5461.3	5715.7	6007.7	6313.0	6647.8	6698.7
12.5°	4772.9	4823.8	4874.7	5000.6	5233.6	5544.3	5940.7	6350.5	6776.4	6848.7
15°	4681.9	4727.4	4767.6	4880.1	5097.0	5450.6	5927.3	6428.2	6939.7	7036.2
17.5°	4695.2	4719.4	4746.1	4831.8	5043.4	5407.7	5951.4	6562.1	7132.6	7218.3
20°	4772.9	4786.3	4789.0	4847.9	5035.4	5402.3	5999.6	6690.7	7314.7	7429.9
22.5°	4872.0	4877.4	4872.0	4912.2	5086.3	5442.5	6063.9	6846.0	7518.3	7625.4
25°	5335.4	5233.6	5105.0	5027.4	5172.0	5520.2	6160.3	7054.9	7740.6	7845.1
27.5°	6773.7	6481.7	6021.1	5504.1	5348.8	5632.7	6294.3	7266.5	7965.6	8059.3
30°	9109.3	8726.2	7944.2	6779.0	5916.6	5868.4	6468.3	7478.1	8204.0	8305.7
32.5°	11450.2	11356.4	10453.8	8841.4	7194.2	6393.4	6757.6	7764.7	8520.0	8600.4
35°	13817.9	13627.7	12888.5	11294.8	9162.8	7462.0	7239.7	8139.7	8935.2	9026.2
37.5°	15631.2	15516.0	15058.0	13745.6	11498.4	9111.9	8064.7	8720.9	9537.8	9639.6
40°	17232.9	17179.3	17023.9	16158.8	14109.8	11270.7	9347.6	9620.8	10373.5	10494.0
42.5°	18491.7	18617.6	18706.0	18464.9	16801.6	13734.9	11072.5	10885.0	11538.6	11661.8
45°	19780.0	19822.9	20179.1	20527.3	19474.7	16311.5	13017.1	12366.2	12987.6	13140.3
47.5°	20607.7	20779.1	21405.8	22019.2	21721.9	18866.7	15106.2	14115.2	14666.9	14953.5
50°	20669.3	20993.3	21855.8	22924.5	23358.4	21298.7	17377.5	16107.9	16694.5	17010.6
52.5°	19643.4	20147.0	21483.5	23047.7	24242.2	23358.4	19726.5	18100.7	18853.3	19265.8
55°	15060.7	15719.6	20082.7	22378.1	24277.1	24919.9	22013.8	20176.4	21258.5	21724.5
57.5°	13121.5	13453.6	15789.2	21215.7	23631.6	25549.3	24081.5	22153.1	23875.3	24453.8
60°	10917.2	11353.8	13242.0	19314.0	22755.7	25610.9	25908.2	24702.9	26711.7	27362.6
62.5°	7419.2	7893.3	9770.8	16046.3	21558.5	25581.5	27405.4	27327.8	29864.2	30563.3
65°	4596.1	4893.4	6130.9	13102.8	19884.5	25613.6	28972.3	30515.1	33190.8	33900.6
67.5°	3631.9	3768.5	4414.0	10060.1	16999.8	24890.4	30536.5	33512.2	36321.9	36884.3
70°	2440.0	2523.1	3211.4	6744.2	12647.4	21553.1	30507.0	35017.5	37934.3	38215.5
72.5°	1285.6	1349.9	1877.6	3123.0	7638.8	15320.5	25715.4	33217.6	36329.9	35906.7
75°	642.8	750.0	1264.2	1585.6	3262.3	8544.1	15968.7	26189.5	28594.7	26955.5
77.5°	487.5	589.2	1044.6	1044.6	1135.6	2876.6	6763.0	14283.9	13175.1	10970.7
80°	310.7	401.8	913.3	790.1	474.1	731.2	1762.4	4001.5	2798.9	2129.3
82.5°	182.1	262.5	760.7	522.3	265.2	270.5	498.2	851.7	725.8	565.1
85°	72.3	171.4	522.3	206.2	104.5	67.0	150.0	182.1	150.0	112.5
87.5°	0.0	40.2	91.1	0.0	8.0	5.4	10.7	13.4	13.4	10.7
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°
6615.7	0°	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7	6615.7
6621.0	2.5°	6645.1	6650.5	6666.6	6669.2	6631.7	6583.5	6564.8	6556.7	6524.6	6521.9
6663.9	5°	6725.5	6749.6	6725.5	6655.8	6489.8	6256.8	6080.0	5935.3	5804.1	5763.9
6811.2	7.5°	6886.2	6910.3	6838.0	6564.8	6146.9	5683.6	5265.7	4971.1	4706.0	4606.9
6990.6	10°	7116.5	7148.7	6921.0	6369.2	5630.0	4885.4	4178.3	3680.1	3291.8	3133.7
7234.4	12.5°	7405.8	7419.2	6966.5	6071.9	4957.7	3894.4	2892.7	2359.7	2014.2	1885.6
7529.0	15°	7724.5	7705.8	6971.9	5667.5	4041.7	2753.4	1888.3	1550.8	1411.5	1368.7
7823.6	17.5°	8059.3	7981.6	6864.8	5083.6	3037.3	1882.9	1400.8	1320.5	1296.3	1285.6
8115.6	20°	8388.8	8214.7	6669.2	4320.3	2180.2	1406.2	1272.2	1248.1	1234.7	1229.4
8410.2	22.5°	8688.7	8391.4	6334.4	3433.7	1582.9	1242.8	1202.6	1181.2	1157.1	1146.4
8696.8	25°	8980.7	8493.2	5863.0	2606.1	1266.9	1162.4	1130.3	1090.1	1058.0	1044.6
9004.8	27.5°	9264.6	8557.5	5273.8	1928.5	1130.3	1087.4	1028.5	972.3	948.2	942.8
9334.2	30°	9567.3	8578.9	4604.2	1438.3	1047.3	993.7	908.0	843.7	830.3	833.0
9778.9	32.5°	9936.9	8611.1	3929.2	1178.5	977.6	881.2	779.4	712.5	701.7	712.5
10427.0	35°	10378.8	8675.4	3278.4	1084.8	916.0	766.0	656.2	600.0	589.2	597.3
11257.3	37.5°	10978.8	8779.8	2670.4	1066.0	865.1	669.6	551.8	506.2	506.2	508.9
12275.1	40°	11776.9	9058.4	2126.7	1052.6	838.3	597.3	466.0	447.3	455.3	460.7
13571.5	42.5°	12749.2	9650.3	1759.7	1036.5	808.9	565.1	423.2	415.2	428.5	433.9
15125.0	45°	13839.3	10400.2	1631.1	1009.8	782.1	586.6	404.4	393.7	409.8	412.5
16865.9	47.5°	14966.9	11134.1	1615.1	980.3	755.3	618.7	399.1	375.0	393.7	396.4
18724.7	50°	16107.9	11613.6	1631.1	934.8	712.5	618.7	401.8	356.2	372.3	380.3
20653.2	52.5°	17257.0	11833.2	1620.4	835.7	637.5	581.2	401.8	340.2	356.2	361.6
22737.0	55°	18371.2	11790.3	1457.1	688.4	541.0	514.3	391.0	326.8	337.5	340.2
24705.6	57.5°	19252.4	11193.1	1154.4	535.7	439.3	428.5	356.2	310.7	318.7	316.1
26510.9	60°	19713.1	9880.6	824.9	412.5	345.5	337.5	313.4	289.3	294.6	281.2
28040.2	62.5°	19718.4	8145.0	551.8	326.8	275.9	267.8	267.8	259.8	254.4	227.7
29224.1	65°	19297.9	6219.3	366.9	259.8	222.3	208.9	225.0	222.3	203.6	166.1
29585.7	67.5°	18344.4	4076.5	278.6	203.6	171.4	163.4	179.5	187.5	174.1	139.3
28267.9	70°	16383.8	2373.1	230.3	158.0	128.6	120.5	144.6	160.7	144.6	112.5
24161.9	72.5°	13609.0	1280.3	187.5	117.8	88.4	80.4	115.2	131.2	115.2	83.0
15502.6	75°	8830.7	685.7	144.6	77.7	45.5	50.9	85.7	96.4	80.4	53.6
4550.6	77.5°	2965.0	302.7	91.1	37.5	21.4	21.4	50.9	58.9	37.5	18.7
827.6	80°	661.6	125.9	37.5	16.1	8.0	8.0	10.7	10.7	5.4	0.0
254.4	82.5°	217.0	50.9	16.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
64.3	85°	83.0	18.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.4	87.5°	32.1	2.7	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>
6615.7
6527.3
5739.8
4566.7
3066.8
1845.4
1368.7
1283.0
1224.0
1143.7
1039.2
937.4
833.0
709.8
594.6
506.2
460.7
433.9
415.2
399.1
383.0
361.6
340.2
316.1
278.6
219.6
160.7
136.6
<i>107.1</i>
80.4
48.2
16.1
0.0
0.0
0.0
0.0
0.0

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