

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: P939604

Luminaire Tested: **GALN-SB2B-740-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

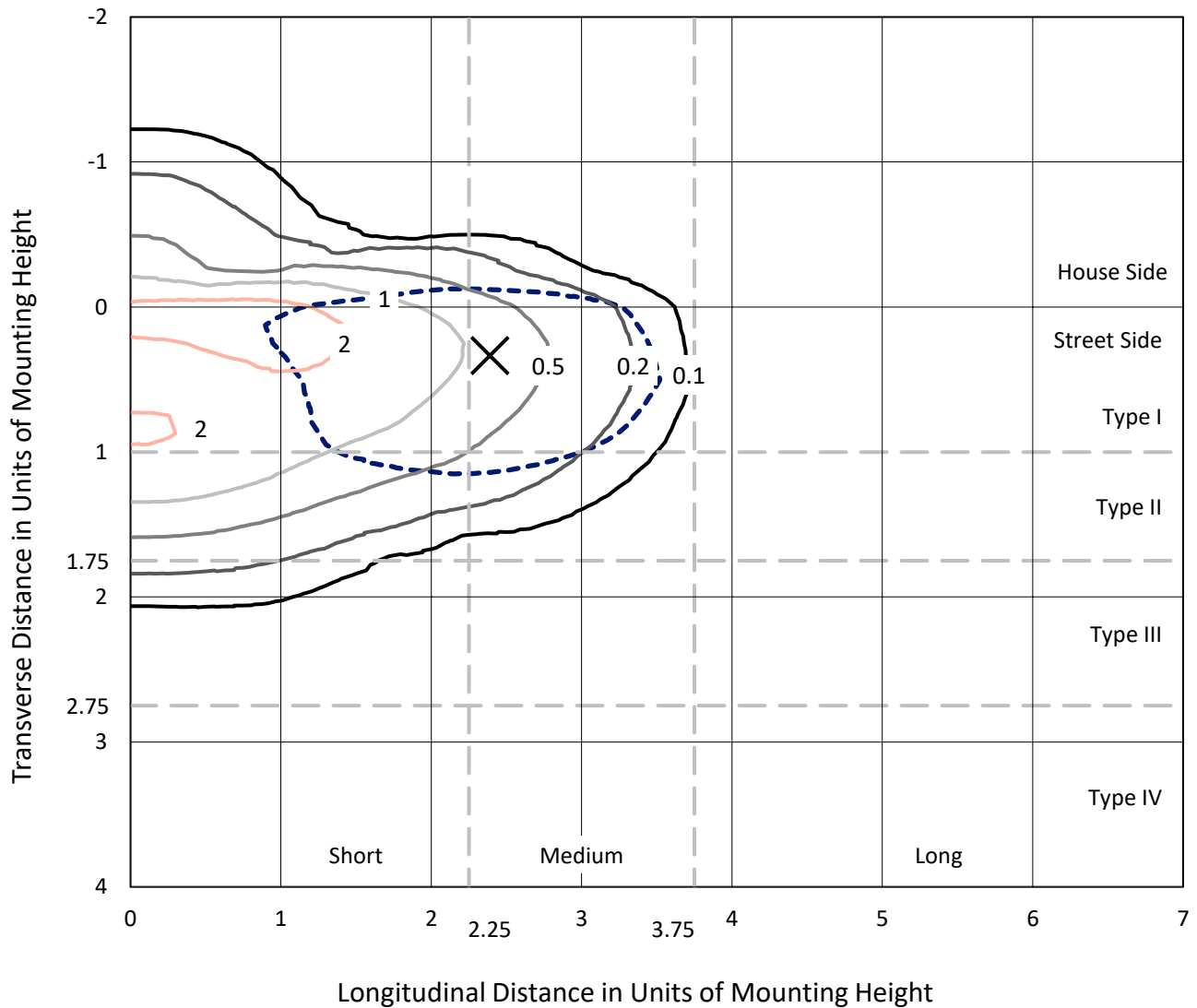
Lumens per Lamp: N/A  
Luminaire Lumens: 8700 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

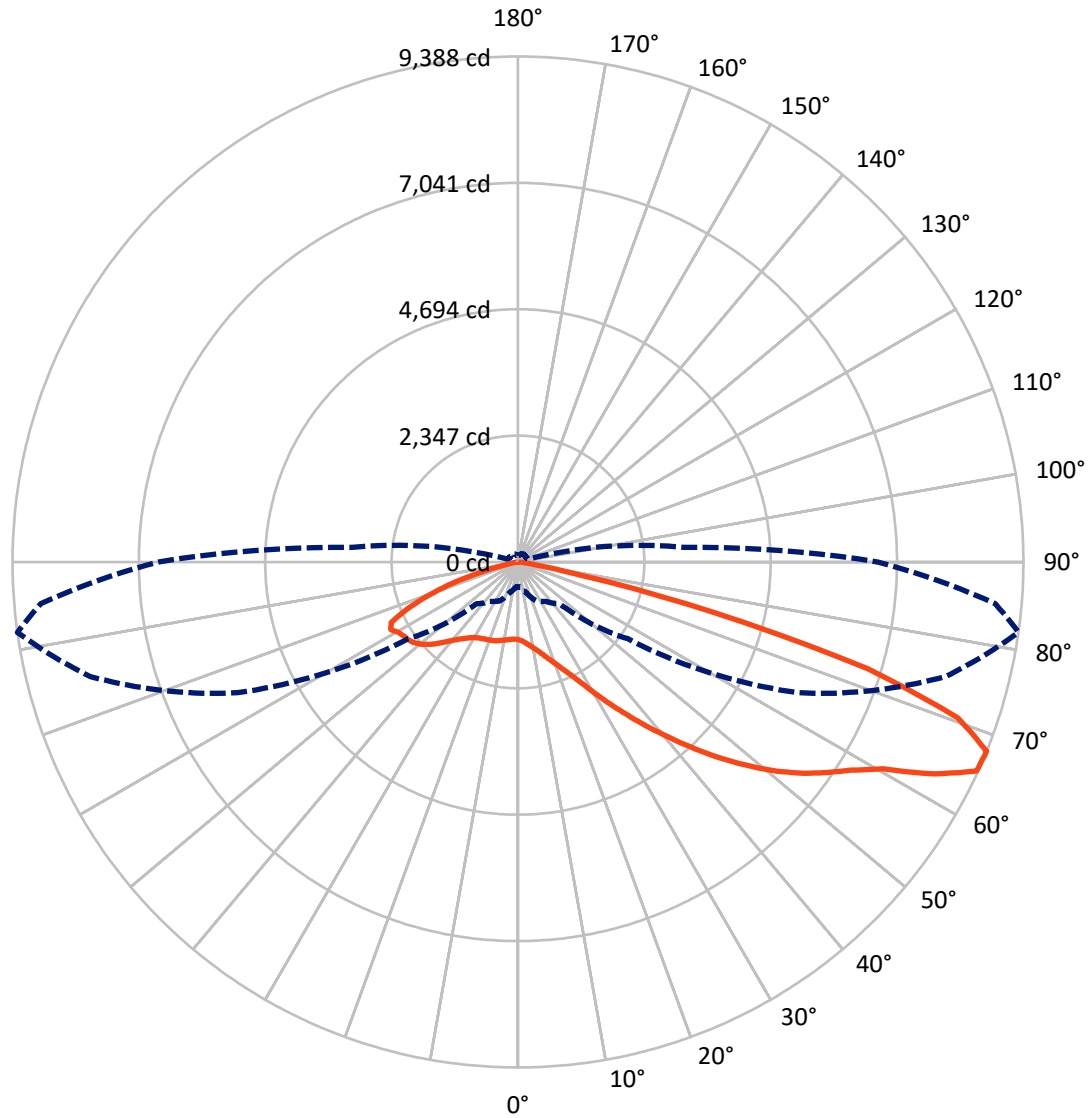
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1575.9	0.0	1575.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	7124.1	0.0	7124.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	8700.0	0.0	8700.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.4	1.5
10°-20°	333.7	3.8
20°-30°	534.5	6.1
30°-40°	945.1	10.9
40°-50°	1655.9	19.0
50°-60°	2208.5	25.4
60°-70°	2056.0	23.6
70°-80°	789.1	9.1
80°-90°	49.0	0.6
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°	8700.0	100.0
0°-180°	8700.0	100.0

**Coefficient of Utilization**



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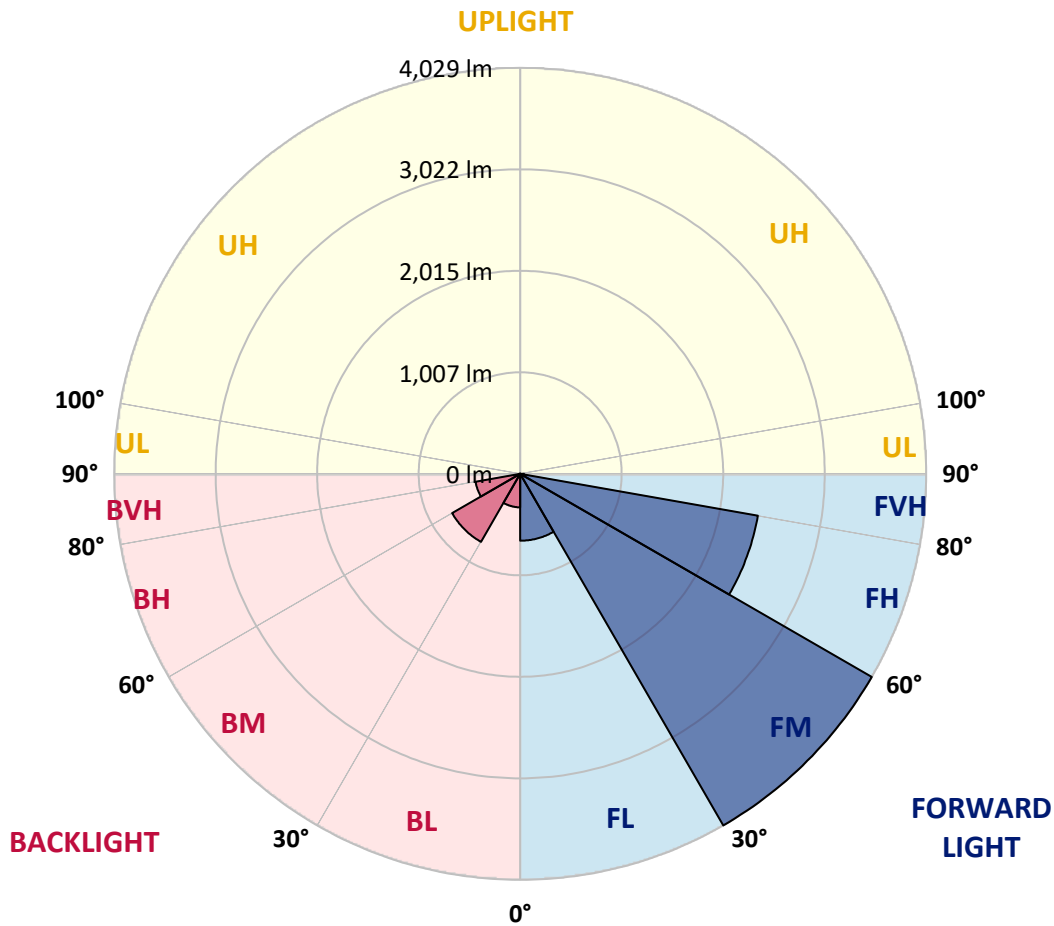
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.7	7.6			
FM (30°-60°)	4029.5	46.3			
FH (60°-80°)	2395.2	27.5			G2/5000
FVH (80°-90°)	35.6	0.4			G1/100
BL (0°-30°)	332.8	3.8	B1/500		
BM (30°-60°)	779.9	9.0	B1/1000		
BH (60°-80°)	449.8	5.2	B1/500		G1/500
BVH (80°-90°)	13.4	0.2			G1/100
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°	82°
0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
2.5°	1523.4	1532.1	1527.1	1524.6	1520.2	1514.0	1508.9	1493.3	1477.0	1466.4
5°	1554.0	1562.8	1562.2	1564.7	1567.8	1569.7	1568.5	1550.9	1527.7	1509.6
7.5°	1527.7	1537.8	1545.9	1558.4	1580.4	1603.5	1614.8	1611.0	1587.2	1562.2
10°	1453.2	1463.8	1483.3	1512.7	1559.1	1609.2	1651.1	1670.5	1655.5	1628.0
12.5°	1316.6	1327.3	1365.5	1429.4	1507.1	1594.1	1674.3	1726.3	1730.1	1702.5
15°	1163.2	1173.8	1214.5	1294.7	1413.1	1552.8	1686.8	1785.2	1818.4	1794.6
17.5°	1068.0	1077.4	1108.1	1172.6	1296.0	1470.1	1682.5	1847.8	1923.6	1904.8
20°	1039.2	1047.3	1061.7	1106.8	1209.5	1384.3	1653.6	1906.7	2037.0	2026.3
22.5°	1069.9	1077.4	1081.8	1101.8	1166.3	1327.9	1617.3	1966.8	2168.5	2169.8
25°	1140.6	1148.2	1143.1	1155.7	1183.9	1310.4	1603.5	2037.6	2333.9	2347.7
27.5°	1257.1	1257.8	1245.9	1245.2	1249.6	1336.7	1617.9	2113.4	2542.5	2568.1
30°	1490.8	1481.4	1435.7	1386.2	1363.6	1415.6	1658.0	2203.0	2788.6	2834.4
32.5°	1850.9	1837.2	1753.2	1634.8	1515.8	1542.8	1730.1	2305.1	3056.7	3139.4
35°	2241.8	2238.0	2150.4	1974.3	1766.4	1723.8	1847.2	2439.1	3349.2	3480.8
37.5°	2605.1	2603.2	2553.1	2345.8	2092.7	1976.2	2035.1	2614.5	3662.4	3852.9
40°	2937.1	2942.7	2892.6	2707.2	2452.3	2300.1	2290.7	2831.2	4010.7	4258.1
42.5°	3224.0	3230.2	3179.5	3042.3	2807.4	2658.3	2604.5	3096.8	4350.8	4693.4
45°	3418.8	3457.6	3450.1	3340.5	3172.0	3017.3	2981.6	3430.0	4738.5	5155.1
47.5°	3473.9	3509.6	3566.0	3581.0	3478.3	3326.1	3368.7	3831.6	5130.7	5617.4
50°	3338.0	3371.2	3488.3	3644.3	3715.7	3668.7	3745.1	4261.9	5532.2	6078.4
52.5°	3069.9	3103.7	3251.5	3498.3	3789.6	3937.4	4122.8	4685.9	5921.2	6515.0
55°	2682.2	2717.9	2907.6	3187.0	3648.7	4048.3	4437.9	5109.4	6277.6	6907.7
57.5°	2154.7	2181.0	2378.4	2769.2	3294.1	3938.0	4670.3	5571.6	6613.3	7293.5
60°	1404.3	1427.5	1656.8	2092.7	2706.6	3569.7	4716.6	6087.1	7059.3	7795.3
62.5°	933.9	949.6	1085.5	1405.6	1906.1	2862.5	4445.4	6498.7	7713.2	8668.4
65°	640.8	656.4	792.4	1015.4	1231.5	1893.5	3665.6	6444.2	8305.8	9361.8
67.5°	457.3	470.4	585.7	796.1	891.3	1099.9	2484.8	5747.6	8220.6	9388.2
70°	327.6	335.1	430.3	620.1	708.4	660.8	1381.8	4395.9	7197.7	8669.1
72.5°	229.3	231.8	298.8	472.3	570.6	482.3	657.7	2930.8	5443.9	6804.3
75°	155.3	158.5	201.1	346.4	457.9	368.3	348.3	1571.6	3195.8	3766.4
77.5°	95.2	96.5	129.7	236.8	342.6	280.6	224.2	665.8	1236.5	1213.9
80°	53.9	53.9	82.7	147.2	233.6	181.0	157.2	283.1	391.5	343.9
82.5°	30.1	30.7	60.1	91.5	154.7	107.1	86.4	130.9	169.1	149.7
85°	12.5	13.8	37.0	43.2	73.9	53.2	35.1	55.1	62.6	55.7
87.5°	1.3	1.9	11.3	8.1	8.8	10.6	5.0	10.6	8.8	8.8
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°
1441.3	0°	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3	1441.3
1462.6	2.5°	1450.7	1441.3	1417.5	1389.9	1353.6	1336.1	1312.3	1296.0	1282.2	1283.4
1498.9	5°	1478.9	1455.1	1401.8	1335.4	1252.8	1193.9	1131.2	1088.0	1052.9	1045.4
1549.0	7.5°	1517.7	1480.1	1386.8	1267.2	1127.5	1021.6	927.0	866.3	823.1	809.3
1609.8	10°	1567.8	1513.3	1367.4	1181.3	980.3	845.6	744.1	696.5	667.1	657.1
1681.2	12.5°	1626.1	1551.5	1341.7	1076.7	828.7	699.0	634.5	610.7	601.3	598.2
1768.9	15°	1699.4	1599.1	1302.9	952.7	700.3	609.5	581.9	578.8	580.0	578.8
1874.1	17.5°	1786.4	1651.1	1239.6	824.9	613.9	563.7	553.7	556.2	559.4	558.7
1991.9	20°	1881.6	1702.5	1158.8	711.6	555.0	531.2	525.5	528.0	530.5	529.3
2127.8	22.5°	1990.0	1757.6	1069.2	623.2	515.5	501.1	494.8	495.5	495.5	493.0
2300.1	25°	2119.7	1818.4	975.3	560.6	485.4	474.2	466.7	464.1	460.4	452.9
2509.3	27.5°	2274.4	1882.9	885.1	516.8	461.6	451.0	442.2	436.0	426.6	414.0
2760.4	30°	2448.5	1961.2	808.7	489.2	442.8	432.2	422.2	412.8	399.0	383.3
3049.2	32.5°	2653.3	2045.1	752.9	471.0	425.9	414.7	402.8	391.5	376.5	360.8
3373.7	35°	2897.6	2146.6	720.3	458.5	412.8	397.7	384.6	372.1	360.8	347.0
3726.3	37.5°	3162.6	2254.3	710.3	452.2	404.0	380.8	365.8	357.0	355.8	347.6
4107.8	40°	3452.6	2382.1	717.8	448.5	394.6	364.6	348.3	346.4	349.5	335.1
4515.6	42.5°	3759.5	2533.7	730.4	444.1	381.5	348.3	332.6	332.6	330.1	310.1
4946.5	45°	4091.5	2708.5	742.9	433.5	365.8	332.0	320.1	315.7	305.0	285.6
5380.0	47.5°	4426.0	2886.3	752.3	414.0	347.0	318.2	307.6	297.5	281.9	264.3
5805.3	50°	4743.6	3046.1	742.3	385.2	325.7	305.0	293.8	280.0	263.1	251.2
6208.0	52.5°	5027.3	3184.5	699.7	351.4	303.2	291.3	281.2	266.8	253.1	240.5
6571.3	55°	5274.1	3296.6	624.5	319.5	283.1	279.4	269.3	251.2	232.4	221.7
6931.5	57.5°	5510.9	3381.8	530.5	293.1	265.0	266.2	251.2	234.9	217.4	206.1
7416.9	60°	5825.9	3495.8	435.3	268.7	245.5	249.3	233.0	221.1	199.2	184.8
8249.4	62.5°	6329.5	3673.1	345.8	238.6	223.0	224.2	217.4	202.9	176.6	159.7
8866.4	65°	6729.2	3607.9	272.5	206.1	197.3	199.2	199.2	183.5	155.3	135.9
8899.6	67.5°	6684.1	3089.3	217.4	174.1	172.9	174.1	178.5	165.4	137.8	122.1
8221.8	70°	6157.3	2457.3	174.1	144.7	150.3	147.2	159.7	151.0	124.0	108.4
6374.0	72.5°	5024.2	1770.1	132.8	119.6	115.3	120.3	144.1	135.9	103.4	85.8
3376.2	75°	2935.8	944.6	99.0	94.6	83.3	100.2	127.8	115.9	78.9	63.3
1034.8	77.5°	955.9	329.5	72.7	69.5	62.0	80.8	109.0	97.7	64.5	50.1
303.2	80°	256.2	99.6	49.5	45.7	40.1	60.1	86.4	77.7	46.4	32.6
130.3	82.5°	102.7	42.0	28.8	25.7	21.9	41.3	68.3	62.6	34.5	20.7
40.7	85°	33.2	13.8	10.6	8.1	10.0	25.7	40.7	42.6	24.4	10.6
6.3	87.5°	4.4	1.9	1.9	2.5	1.9	4.4	12.5	11.9	6.9	1.3
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>
1441.3
1270.9
1028.5
795.5
649.6
596.3
578.1
557.5
528.7
491.7
451.6
412.8
382.1
361.4
345.8
347.0
335.7
310.1
285.0
263.7
249.3
239.3
220.5
204.8
182.9
158.5
134.0
<i>119.6</i>
106.5
83.9
61.4
48.2
31.9
20.7
8.1
0.0
0.0

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