

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: P946821

Luminaire Tested: **GALN-SB2B-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946821
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-SB2B-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA 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: 8696 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

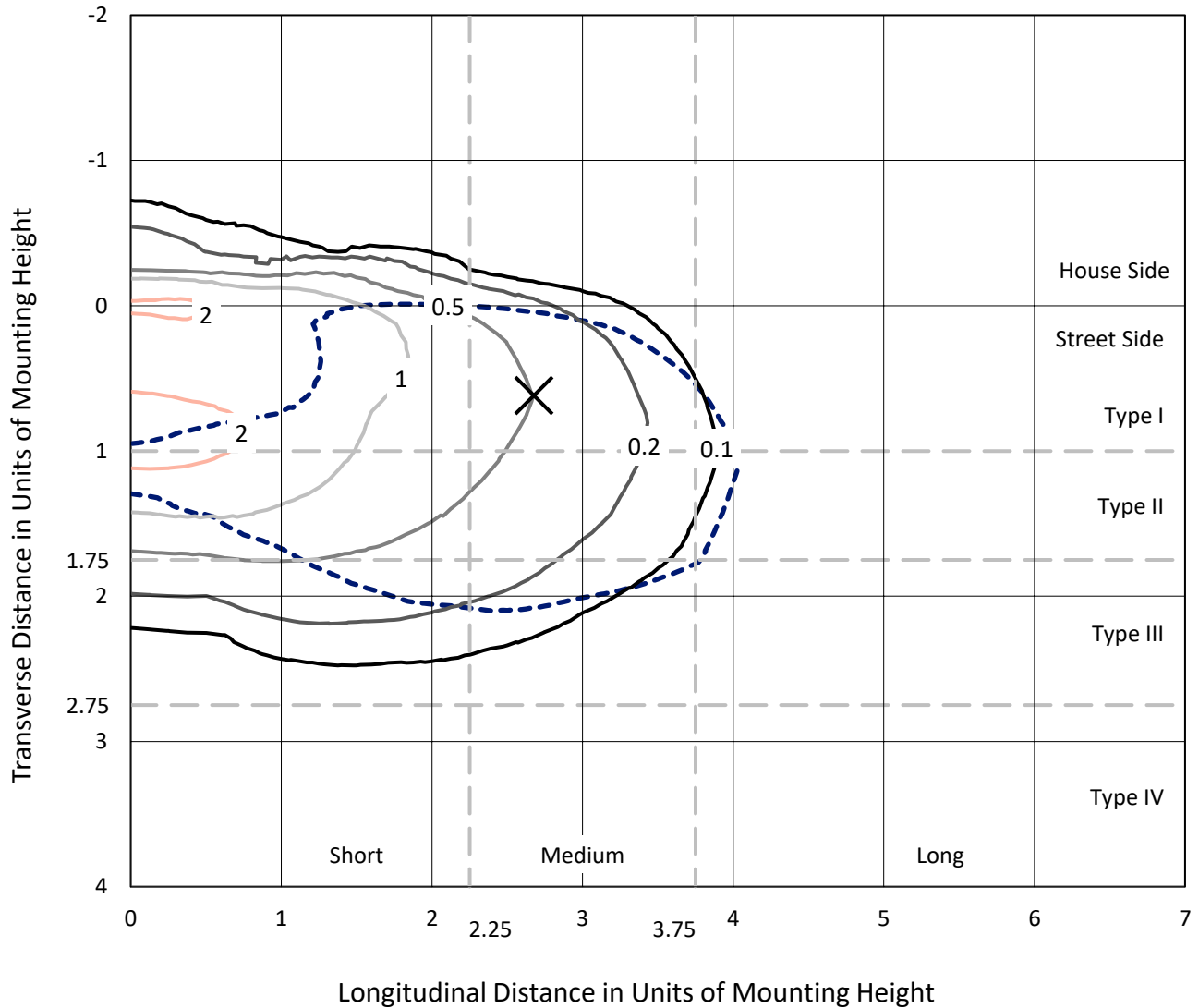
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

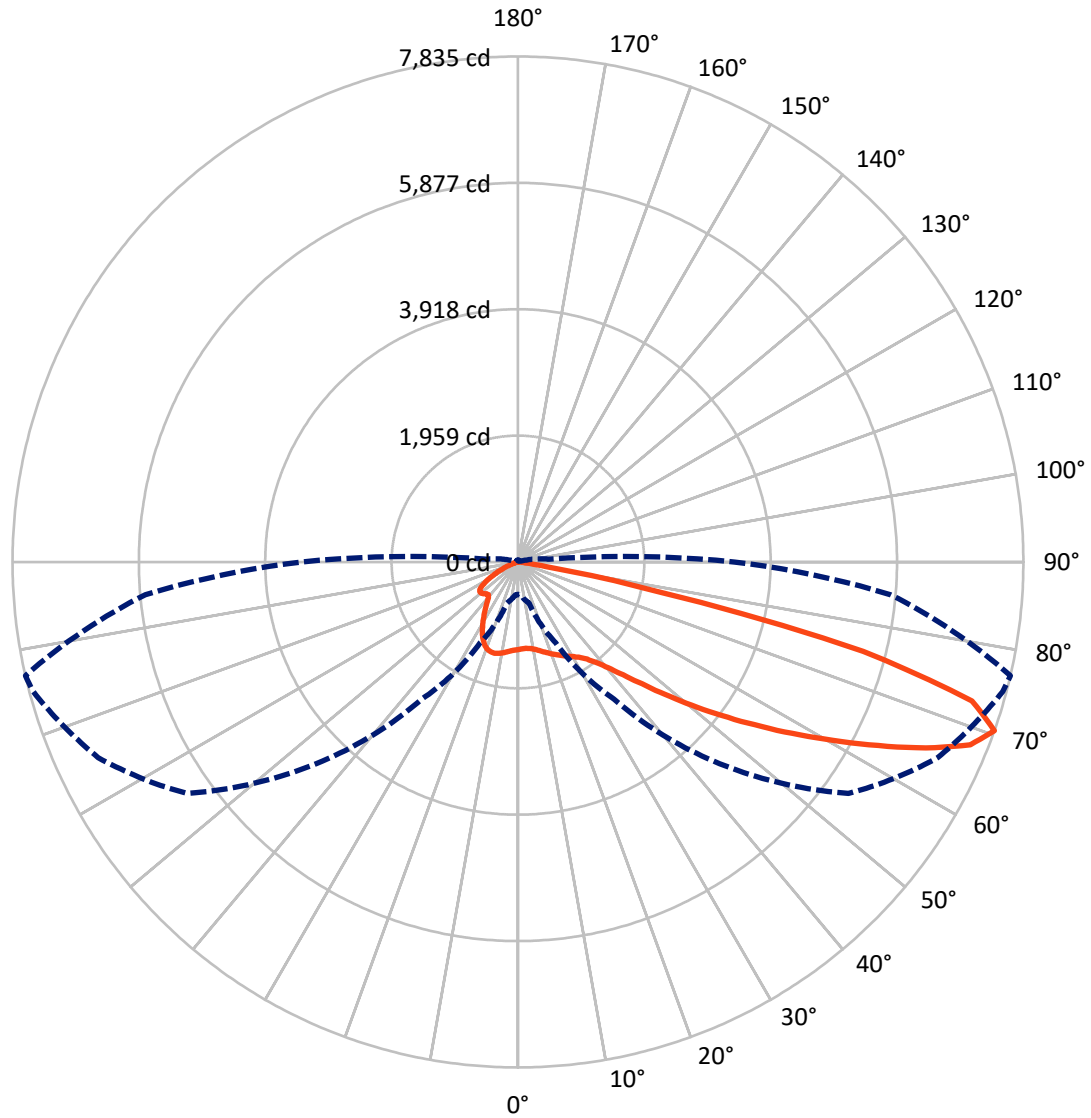
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	916.7	0.0	916.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7779.3	0.0	7779.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	8696.0	0.0	8696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	1.3
10°-20°	277.5	3.2
20°-30°	429.2	4.9
30°-40°	778.9	9.0
40°-50°	1470.2	16.9
50°-60°	2124.3	24.4
60°-70°	2261.3	26.0
70°-80°	1198.3	13.8
80°-90°	39.3	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°	8696.0	100.0
0°-180°	8696.0	100.0

Coefficient of Utilization



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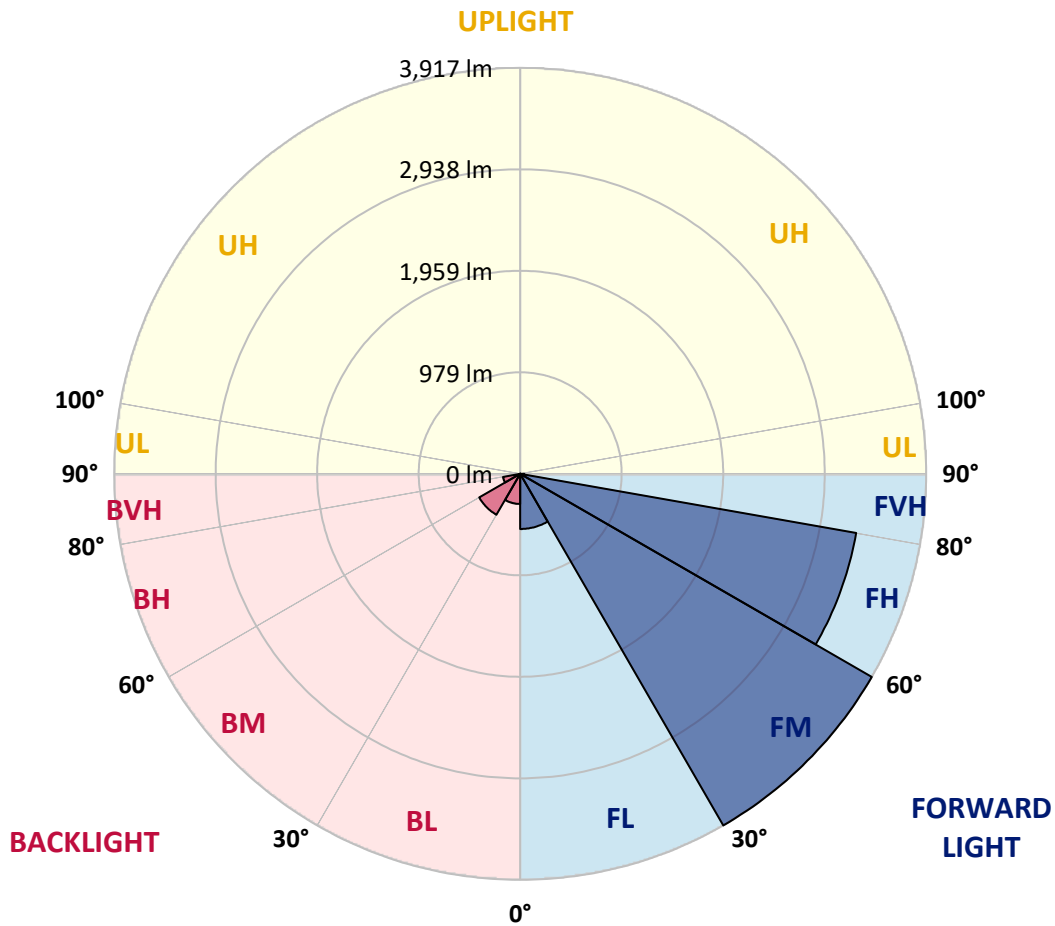
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.4	6.1			
FM (30°-60°)	3917.1	45.0			
FH (60°-80°)	3291.6	37.9			G2/5000
FVH (80°-90°)	38.3	0.4			G1/100
BL (0°-30°)	291.2	3.3	B1/500		
BM (30°-60°)	456.3	5.2	B1/1000		
BH (60°-80°)	168.1	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
2.5°	1273.5	1285.0	1283.4	1291.1	1293.8	1304.8	1315.8	1330.6	1347.1	1346.5
5°	1201.6	1213.1	1215.8	1226.3	1239.4	1256.5	1279.0	1308.6	1339.4	1344.3
7.5°	1116.4	1128.5	1135.7	1156.5	1180.7	1215.8	1252.6	1296.0	1347.1	1354.2
10°	1031.3	1042.3	1051.6	1081.3	1119.7	1171.9	1231.8	1294.4	1363.0	1373.4
12.5°	978.6	989.0	999.5	1025.3	1073.1	1136.8	1218.0	1302.1	1389.4	1404.2
15°	959.9	969.3	977.5	1000.6	1045.0	1117.5	1215.3	1318.0	1422.9	1442.6
17.5°	962.7	967.6	973.1	990.7	1034.1	1108.7	1220.2	1345.4	1462.4	1480.0
20°	978.6	981.3	981.9	994.0	1032.4	1107.7	1230.1	1371.8	1499.7	1523.4
22.5°	998.9	1000.0	998.9	1007.2	1042.9	1115.9	1243.3	1403.6	1541.5	1563.5
25°	1093.9	1073.1	1046.7	1030.8	1060.4	1131.8	1263.1	1446.5	1587.1	1608.5
27.5°	1388.8	1329.0	1234.5	1128.5	1096.7	1154.9	1290.5	1489.9	1633.2	1652.4
30°	1867.7	1789.2	1628.8	1389.9	1213.1	1203.2	1326.2	1533.2	1682.1	1702.9
32.5°	2347.6	2328.4	2143.4	1812.8	1475.0	1310.8	1385.5	1592.0	1746.9	1763.3
35°	2833.1	2794.1	2642.5	2315.8	1878.7	1530.0	1484.4	1668.9	1832.0	1850.7
37.5°	3204.9	3181.3	3087.4	2818.3	2357.5	1868.2	1653.5	1788.1	1955.5	1976.4
40°	3533.3	3522.3	3490.4	3313.1	2893.0	2310.9	1916.6	1972.6	2126.9	2151.6
42.5°	3791.4	3817.2	3835.3	3785.9	3444.9	2816.1	2270.2	2231.8	2365.8	2391.0
45°	4055.5	4064.3	4137.4	4208.7	3992.9	3344.4	2668.9	2535.5	2662.9	2694.2
47.5°	4225.2	4260.4	4388.9	4514.6	4453.7	3868.3	3097.2	2894.1	3007.2	3065.9
50°	4237.8	4304.3	4481.1	4700.2	4789.2	4366.9	3562.9	3302.6	3422.9	3487.7
52.5°	4027.5	4130.8	4404.8	4725.5	4970.4	4789.2	4044.5	3711.2	3865.5	3950.1
55°	3087.9	3223.0	4117.6	4588.2	4977.6	5109.4	4513.5	4136.8	4358.7	4454.2
57.5°	2690.3	2758.4	3237.3	4349.9	4845.2	5238.4	4937.5	4542.1	4895.2	5013.8
60°	2238.4	2327.9	2715.0	3960.0	4665.6	5251.0	5312.0	5064.9	5476.7	5610.2
62.5°	1521.2	1618.4	2003.3	3290.0	4420.2	5245.0	5619.0	5603.1	6123.1	6266.4
65°	942.4	1003.3	1257.0	2686.5	4076.9	5251.6	5940.2	6256.6	6805.2	6950.7
67.5°	744.7	772.7	905.0	2062.6	3485.5	5103.3	6260.9	6871.1	7447.1	7562.4
70°	500.3	517.3	658.4	1382.8	2593.1	4419.1	6254.9	7179.7	7777.7	7835.4
72.5°	263.6	276.8	385.0	640.3	1566.2	3141.2	5272.5	6810.7	7448.8	7362.0
75°	131.8	153.8	259.2	325.1	668.9	1751.8	3274.1	5369.7	5862.8	5526.7
77.5°	99.9	120.8	214.2	214.2	232.8	589.8	1386.6	2928.7	2701.3	2249.3
80°	63.7	82.4	187.3	162.0	97.2	149.9	361.3	820.4	573.9	436.6
82.5°	37.3	53.8	156.0	107.1	54.4	55.5	102.1	174.6	148.8	115.9
85°	14.8	35.1	107.1	42.3	21.4	13.7	30.8	37.3	30.8	23.1
87.5°	0.0	8.2	18.7	0.0	1.6	1.1	2.2	2.7	2.7	2.2
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°
1356.4	0°	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4	1356.4
1357.5	2.5°	1362.5	1363.6	1366.9	1367.4	1359.7	1349.8	1346.0	1344.3	1337.7	1337.2
1366.3	5°	1378.9	1383.9	1378.9	1364.7	1330.6	1282.8	1246.6	1216.9	1190.0	1181.8
1396.5	7.5°	1411.9	1416.8	1402.0	1346.0	1260.3	1165.3	1079.6	1019.2	964.9	944.6
1433.3	10°	1459.1	1465.7	1419.0	1305.9	1154.3	1001.7	856.7	754.5	674.9	642.5
1483.3	12.5°	1518.4	1521.2	1428.4	1244.9	1016.5	798.5	593.1	483.8	413.0	386.6
1543.7	15°	1583.8	1579.9	1429.5	1162.0	828.7	564.5	387.2	318.0	289.4	280.6
1604.1	17.5°	1652.4	1636.5	1407.5	1042.3	622.7	386.1	287.2	270.7	265.8	263.6
1663.9	20°	1720.0	1684.3	1367.4	885.8	447.0	288.3	260.8	255.9	253.2	252.1
1724.4	22.5°	1781.5	1720.5	1298.8	704.0	324.6	254.8	246.6	242.2	237.2	235.0
1783.1	25°	1841.3	1741.4	1202.1	534.3	259.8	238.3	231.7	223.5	216.9	214.2
1846.3	27.5°	1899.5	1754.6	1081.3	395.4	231.7	223.0	210.9	199.3	194.4	193.3
1913.8	30°	1961.6	1759.0	944.0	294.9	214.7	203.7	186.2	173.0	170.2	170.8
2005.0	32.5°	2037.4	1765.5	805.6	241.6	200.4	180.7	159.8	146.1	143.9	146.1
2137.9	35°	2128.0	1778.7	672.2	222.4	187.8	157.1	134.5	123.0	120.8	122.5
2308.1	37.5°	2251.0	1800.1	547.5	218.6	177.4	137.3	113.1	103.8	103.8	104.3
2516.8	40°	2414.6	1857.3	436.0	215.8	171.9	122.5	95.6	91.7	93.4	94.5
2782.6	42.5°	2614.0	1978.6	360.8	212.5	165.8	115.9	86.8	85.1	87.9	89.0
3101.1	45°	2837.5	2132.4	334.4	207.0	160.4	120.3	82.9	80.7	84.0	84.6
3458.0	47.5°	3068.7	2282.8	331.1	201.0	154.9	126.9	81.8	76.9	80.7	81.3
3839.2	50°	3302.6	2381.1	334.4	191.7	146.1	126.9	82.4	73.0	76.3	78.0
4234.6	52.5°	3538.2	2426.2	332.2	171.3	130.7	119.2	82.4	69.7	73.0	74.1
4661.8	55°	3766.7	2417.4	298.7	141.1	110.9	105.4	80.2	67.0	69.2	69.7
5065.4	57.5°	3947.3	2294.9	236.7	109.8	90.1	87.9	73.0	63.7	65.3	64.8
5435.6	60°	4041.8	2025.8	169.1	84.6	70.8	69.2	64.3	59.3	60.4	57.7
5749.1	62.5°	4042.9	1670.0	113.1	67.0	56.6	54.9	54.9	53.3	52.2	46.7
5991.9	65°	3956.7	1275.1	75.2	53.3	45.6	42.8	46.1	45.6	41.7	34.0
6066.0	67.5°	3761.2	835.8	57.1	41.7	35.1	33.5	36.8	38.4	35.7	28.6
5795.8	70°	3359.2	486.6	47.2	32.4	26.4	24.7	29.7	32.9	29.7	23.1
4953.9	72.5°	2790.3	262.5	38.4	24.2	18.1	16.5	23.6	26.9	23.6	17.0
3178.5	75°	1810.6	140.6	29.7	15.9	9.3	10.4	17.6	19.8	16.5	11.0
933.0	77.5°	607.9	62.1	18.7	7.7	4.4	4.4	10.4	12.1	7.7	3.8
169.7	80°	135.6	25.8	7.7	3.3	1.6	1.6	2.2	2.2	1.1	0.0
52.2	82.5°	44.5	10.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
13.2	85°	17.0	3.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4	87.5°	6.6	0.5	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

180°
1356.4
1338.3
1176.8
936.3
628.8
378.4
280.6
263.0
251.0
234.5
213.1
192.2
170.8
145.5
121.9
103.8
94.5
89.0
85.1
81.8
78.5
74.1
69.7
64.8
57.1
45.0
32.9
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