

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: P939677

Luminaire Tested: **GALN-SB2B-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10779 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

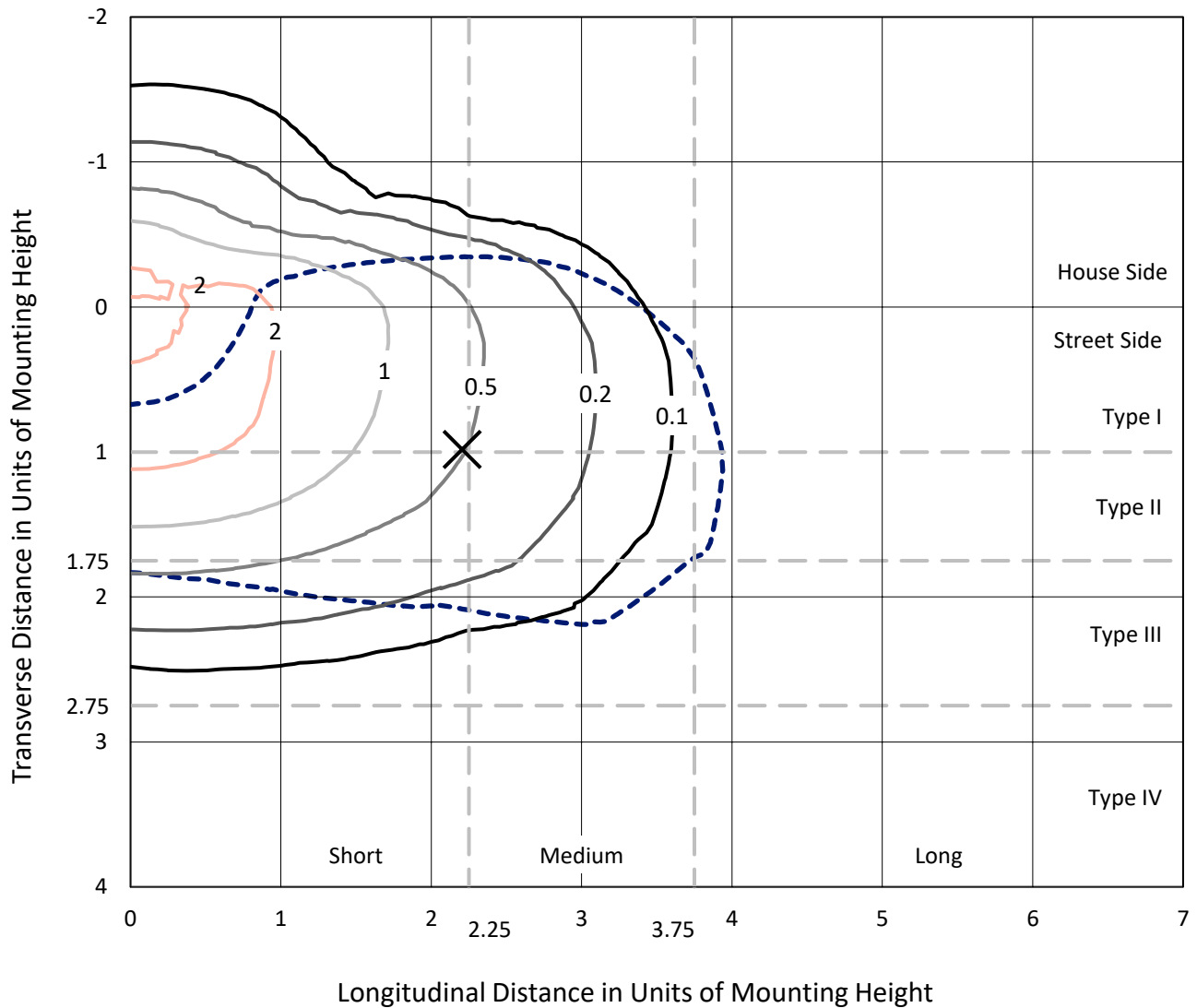
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939677
 CATALOG NUMBER: GALN-SB2B-850-U-T3

Iso-Footcandle Lines of Horizontal Illumination

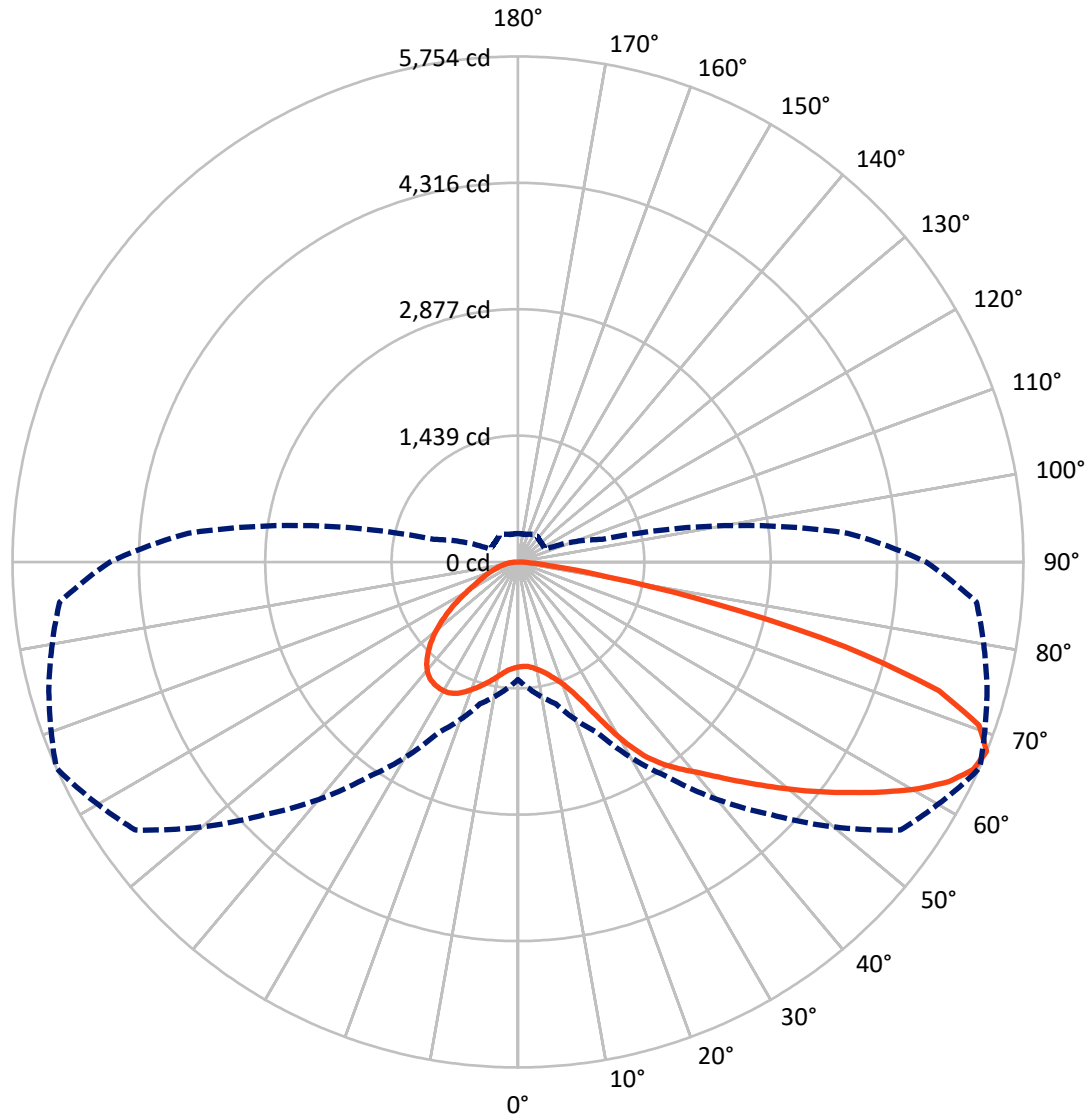
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

REPORT NUMBER: P939677
CATALOG NUMBER: GALN-SB2B-850-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P939677

CATALOG NUMBER: GALN-SB2B-850-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2680.2	0.0	2680.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8098.8	0.0	8098.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	10779.0	0.0	10779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.1
10°-20°	391.6	3.6
20°-30°	754.8	7.0
30°-40°	1323.5	12.3
40°-50°	1967.6	18.3
50°-60°	2494.1	23.1
60°-70°	2440.4	22.6
70°-80°	1164.1	10.8
80°-90°	124.4	1.2
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°	10779.0	100.0
0°-180°	10779.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939677

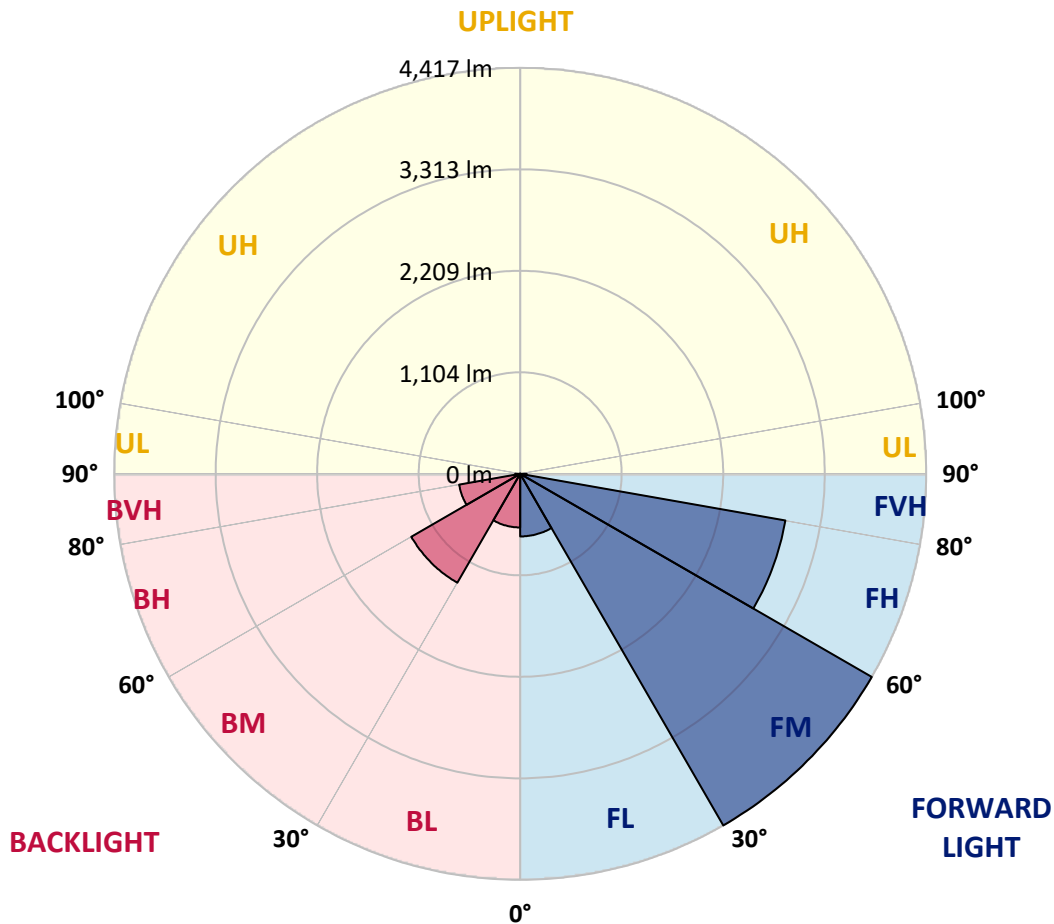
CATALOG NUMBER: GALN-SB2B-850-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.1	6.3			
FM (30°-60°)	4417.1	41.0			
FH (60°-80°)	2930.0	27.2			G2/5000
FVH (80°-90°)	70.5	0.7			G1/100
BL (0°-30°)	583.8	5.4	B2/1000		
BM (30°-60°)	1368.0	12.7	B2/2500		
BH (60°-80°)	674.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	53.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P939677
 CATALOG NUMBER: GALN-SB2B-850-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5
2.5°	1183.1	1189.9	1188.2	1185.3	1184.8	1185.9	1187.6	1189.3	1188.7	1191.6
5°	1179.7	1186.5	1185.9	1185.9	1188.2	1192.7	1195.5	1198.4	1195.5	1198.9
7.5°	1181.9	1187.0	1189.3	1191.6	1197.2	1205.7	1212.5	1218.8	1215.4	1219.3
10°	1210.8	1214.8	1217.1	1217.1	1221.0	1230.6	1237.4	1248.8	1245.9	1252.2
12.5°	1263.5	1267.5	1267.5	1265.2	1268.0	1274.3	1276.5	1289.0	1283.9	1294.1
15°	1328.1	1336.0	1329.8	1325.8	1326.9	1333.2	1332.6	1342.2	1337.1	1345.6
17.5°	1399.4	1409.6	1399.4	1398.8	1396.6	1403.4	1403.9	1412.4	1403.4	1409.6
20°	1483.8	1498.0	1489.5	1492.3	1487.2	1490.0	1492.9	1505.3	1491.2	1495.7
22.5°	1602.7	1619.7	1610.7	1621.4	1618.0	1615.8	1615.2	1637.3	1615.2	1616.9
25°	1776.0	1796.4	1780.6	1795.3	1795.3	1802.6	1811.1	1839.5	1802.6	1791.9
27.5°	2032.0	2052.4	2021.3	2030.3	2027.5	2045.6	2036.5	2106.8	2067.1	2049.6
30°	2340.1	2376.3	2317.4	2315.2	2312.3	2341.2	2354.3	2400.7	2360.5	2342.9
32.5°	2673.1	2711.0	2640.8	2620.4	2609.7	2627.2	2616.5	2653.8	2626.1	2598.9
35°	3025.4	3062.7	2995.9	2956.3	2913.2	2876.4	2837.9	2847.5	2821.5	2780.1
37.5°	3358.4	3426.9	3356.1	3313.6	3234.3	3162.4	3054.8	3010.1	2985.7	2947.8
40°	3697.6	3736.7	3682.9	3646.6	3560.5	3447.8	3275.7	3181.1	3148.3	3111.4
42.5°	3947.4	3984.7	3955.9	3930.9	3863.5	3732.7	3510.1	3391.8	3344.2	3302.9
45°	4145.6	4173.3	4155.2	4164.3	4135.4	4008.5	3753.1	3617.7	3568.5	3518.1
47.5°	4225.4	4254.9	4283.8	4337.6	4386.8	4293.4	4014.2	3862.4	3810.3	3758.8
50°	4216.4	4246.4	4330.2	4444.6	4597.5	4566.4	4289.4	4122.9	4074.8	4015.9
52.5°	4143.9	4177.9	4285.5	4475.7	4719.3	4770.8	4569.8	4391.9	4346.6	4276.4
55°	3953.6	3974.0	4135.4	4405.0	4748.2	4913.5	4844.4	4678.5	4633.2	4535.2
57.5°	3600.8	3630.2	3865.2	4214.1	4675.7	5010.4	5085.7	4979.8	4936.2	4795.2
60°	3140.3	3187.3	3456.3	3893.6	4491.0	5009.8	5304.9	5276.0	5239.7	5051.1
62.5°	2619.3	2673.7	2932.5	3440.5	4168.2	4867.7	5441.9	5524.0	5505.3	5287.3
65°	2011.6	2049.0	2306.7	2854.3	3665.9	4562.4	5457.8	5693.4	5696.8	5466.8
67.5°	1339.4	1447.0	1670.7	2141.9	2993.1	4063.5	5318.5	5721.1	5754.0	5528.6
70°	653.6	795.1	1014.3	1392.1	2141.9	3298.3	4954.3	5493.5	5566.5	5348.5
72.5°	271.3	317.1	436.6	687.0	1229.5	2225.7	4222.6	4876.1	5011.5	4739.1
75°	182.9	198.2	249.8	352.3	560.1	1097.6	3045.2	3635.9	3853.9	3579.2
77.5°	141.0	150.6	181.8	246.4	333.0	415.1	1629.9	2191.2	2303.9	2132.8
80°	111.0	118.4	135.9	179.5	236.2	222.0	555.6	992.8	1057.9	887.4
82.5°	96.3	99.1	97.4	121.8	156.9	129.7	182.4	366.4	404.4	293.4
85°	69.7	77.6	81.0	75.3	83.3	65.7	74.8	129.7	142.7	127.4
87.5°	28.3	41.9	51.5	48.7	30.6	18.7	23.2	37.9	43.6	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939677
 CATALOG NUMBER: GALN-SB2B-850-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1195.5	0°	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5	1195.5
1196.1	2.5°	1196.7	1200.6	1203.5	1206.9	1209.1	1212.5	1219.3	1223.3	1223.9	1226.7
1205.2	5°	1207.4	1213.1	1219.3	1228.4	1238.6	1247.1	1260.1	1269.2	1272.6	1275.4
1227.2	7.5°	1230.6	1238.6	1249.9	1265.8	1280.5	1291.8	1307.7	1318.4	1329.2	1333.2
1262.4	10°	1265.2	1276.5	1292.9	1314.5	1330.3	1345.0	1361.5	1370.5	1381.3	1385.8
1304.3	12.5°	1308.2	1320.1	1341.6	1371.7	1386.4	1396.6	1402.2	1400.0	1402.2	1406.2
1354.7	15°	1357.5	1370.5	1394.9	1427.2	1437.4	1428.3	1415.8	1404.5	1402.8	1403.9
1415.8	17.5°	1415.8	1425.5	1453.8	1481.0	1473.6	1436.2	1409.0	1390.9	1381.9	1379.0
1494.0	20°	1497.4	1497.4	1520.6	1537.6	1488.3	1424.9	1382.4	1353.0	1334.3	1326.4
1600.5	22.5°	1596.5	1587.4	1602.2	1590.3	1485.5	1393.2	1334.3	1283.3	1255.0	1243.7
1749.4	25°	1722.2	1711.5	1707.5	1633.9	1465.1	1342.8	1247.1	1185.3	1160.4	1154.2
1964.1	27.5°	1911.9	1884.8	1833.2	1657.7	1427.7	1263.5	1145.1	1087.9	1073.8	1074.3
2239.9	30°	2164.5	2110.2	1983.9	1661.6	1366.6	1151.4	1040.9	1000.1	993.4	996.2
2471.5	32.5°	2398.4	2346.9	2137.9	1643.5	1272.6	1041.5	947.5	920.3	910.1	913.5
2648.2	35°	2581.9	2567.8	2280.6	1618.0	1157.0	938.4	863.7	840.4	820.6	816.1
2814.7	37.5°	2755.2	2749.6	2387.7	1582.3	1042.6	865.4	796.3	765.7	736.8	720.9
2998.7	40°	2945.5	2939.8	2457.9	1527.4	941.2	801.9	735.7	695.5	659.8	630.9
3207.2	42.5°	3159.6	3126.2	2491.3	1448.7	855.2	748.1	686.4	632.0	585.0	558.4
3442.8	45°	3393.5	3318.2	2490.7	1348.4	782.7	698.9	633.7	556.7	513.1	488.2
3684.6	47.5°	3641.5	3501.7	2460.2	1237.4	712.4	644.5	552.2	493.3	464.4	449.1
3947.4	50°	3897.5	3673.2	2408.1	1110.0	640.5	582.8	501.2	461.0	438.9	424.8
4207.9	52.5°	4138.2	3829.0	2345.2	965.6	567.5	522.7	478.6	447.4	424.2	408.3
4460.5	55°	4361.9	3963.2	2256.3	817.8	508.0	482.5	467.8	441.7	415.1	396.4
4717.0	57.5°	4560.7	4050.4	2102.8	679.0	465.5	454.8	456.5	432.1	401.5	385.7
4969.6	60°	4726.1	4114.4	1875.7	550.5	431.0	427.6	438.9	414.0	378.3	360.2
5183.1	62.5°	4825.2	4113.3	1597.1	450.8	401.5	402.7	415.7	391.3	355.1	338.1
5294.7	65°	4816.7	4012.5	1291.2	385.7	373.2	374.3	391.3	366.4	335.8	325.6
5238.6	67.5°	4646.2	3766.7	990.5	343.2	342.1	347.2	367.0	349.4	323.9	322.8
4904.5	70°	4184.7	3256.4	713.6	309.2	309.8	317.1	343.2	338.7	317.7	320.0
4123.5	72.5°	3355.5	2482.8	479.1	273.5	274.1	286.0	320.5	330.2	311.5	341.5
2925.7	75°	2234.8	1548.4	308.1	235.6	236.2	251.5	300.7	313.7	294.5	340.4
1522.3	77.5°	1073.8	696.0	223.1	198.2	198.2	212.4	259.9	280.9	250.9	264.5
489.3	80°	370.9	261.6	175.6	159.7	156.3	165.9	219.2	243.5	216.3	199.3
159.7	82.5°	146.1	135.9	141.0	124.0	112.7	118.9	170.5	201.0	159.1	143.8
90.0	85°	83.8	88.3	99.7	82.1	65.1	73.1	125.2	144.4	120.1	105.9
29.4	87.5°	22.7	31.1	45.9	42.5	29.4	31.1	59.5	79.9	69.1	53.2
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>
1195.5
1226.1
1274.8
1333.7
1388.1
1407.3
1407.9
1383.0
1324.7
1242.0
1155.3
1076.0
1005.8
918.0
819.5
721.5
633.7
560.1
487.0
445.7
419.7
401.5
389.1
375.5
352.3
333.0
325.1
324.5
319.4
346.0
343.2
242.4
186.9
143.3
108.2
54.9
0.0

F REPORT)