

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: P948582

Luminaire Tested: **GALN-SB3C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20565 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

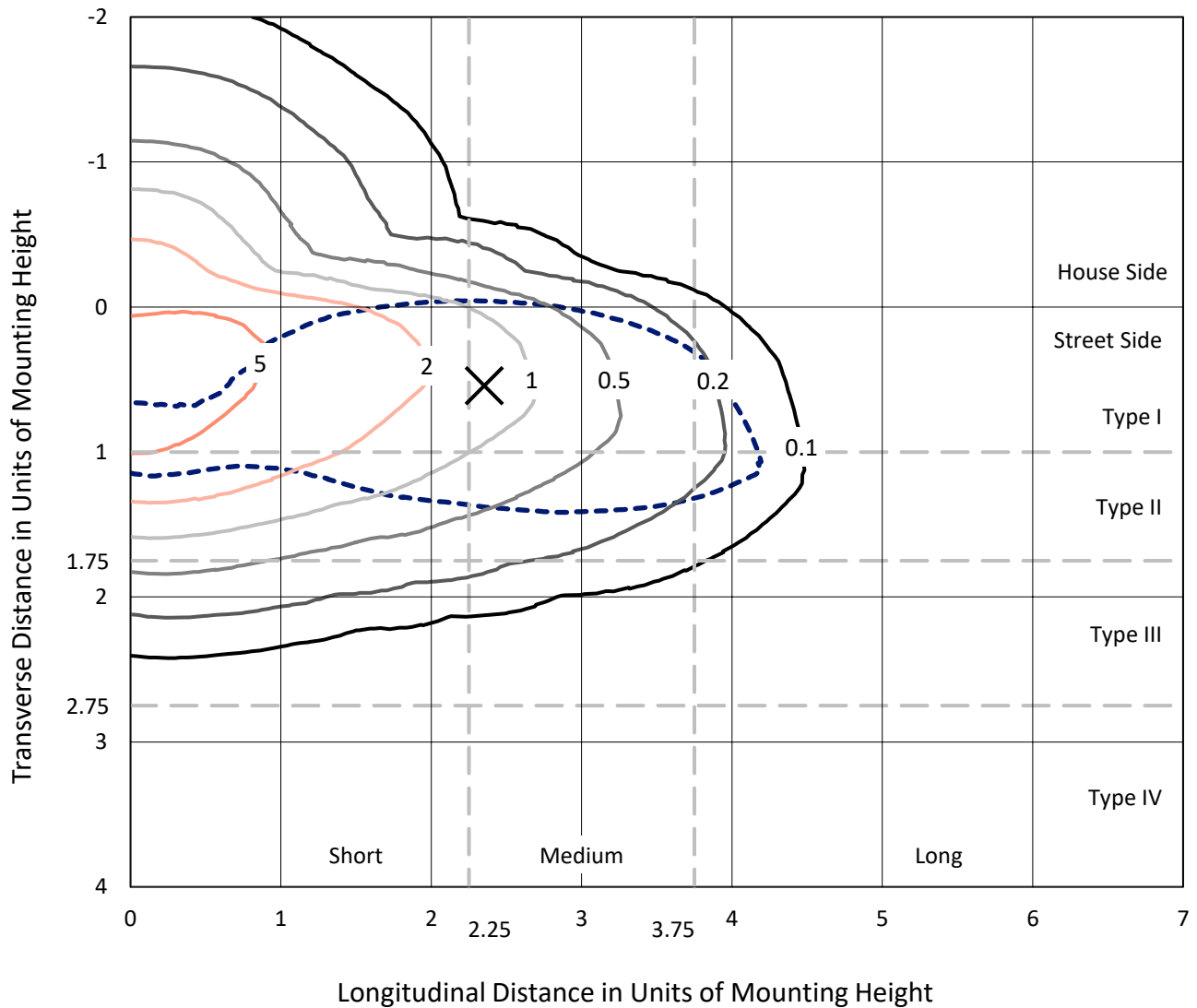
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948582
 CATALOG NUMBER: GALN-SB3C-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

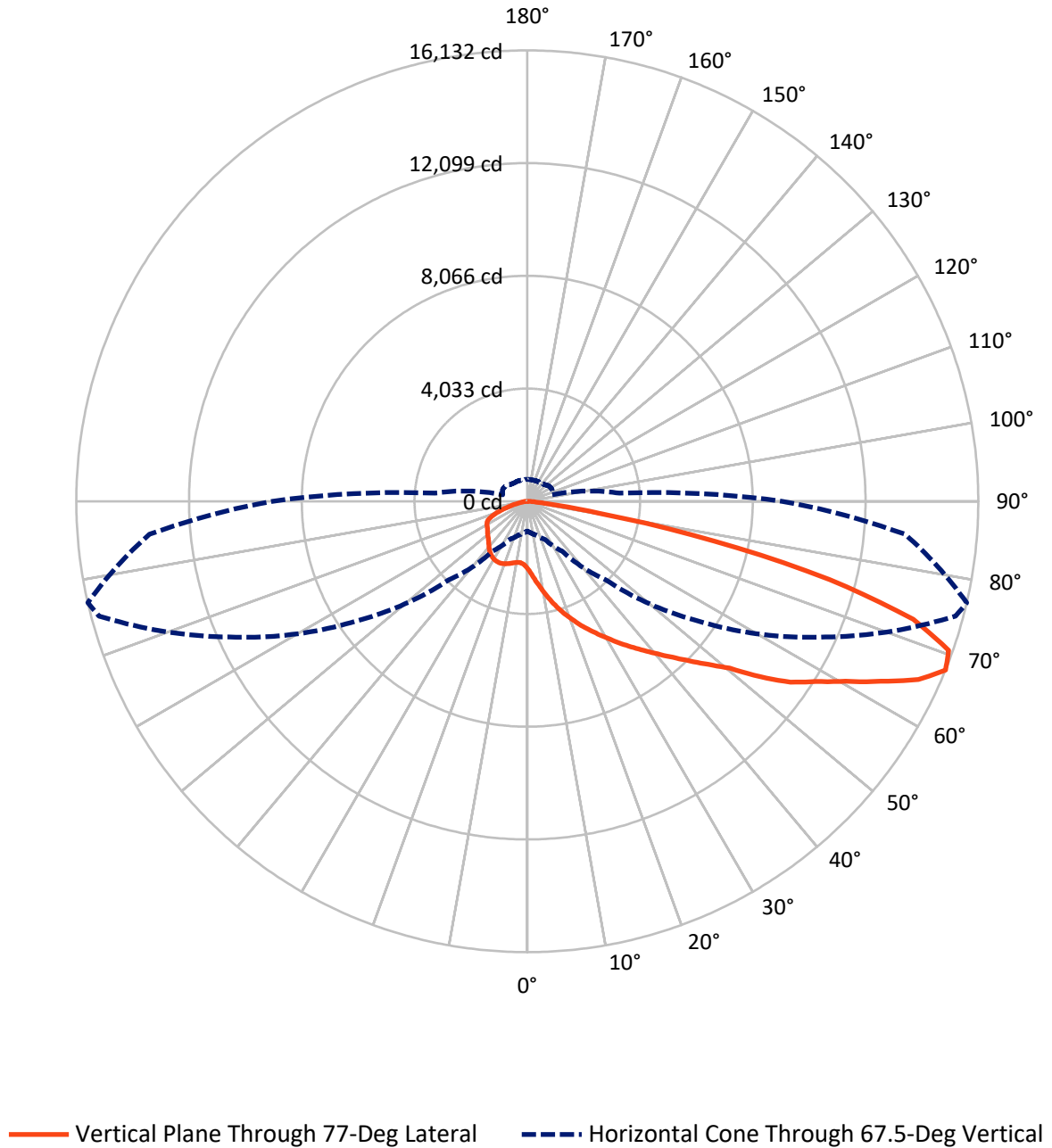
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P948582
CATALOG NUMBER: GALN-SB3C-830-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P948582
 CATALOG NUMBER: GALN-SB3C-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3890.1	0.0	3890.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	16674.9	0.0	16674.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	20565.0	0.0	20565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	1.3
10°-20°	929.2	4.5
20°-30°	1754.3	8.5
30°-40°	2826.2	13.7
40°-50°	3865.8	18.8
50°-60°	4360.6	21.2
60°-70°	4070.1	19.8
70°-80°	2231.1	10.8
80°-90°	269.1	1.3
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°	20565.0	100.0
0°-180°	20565.0	100.0



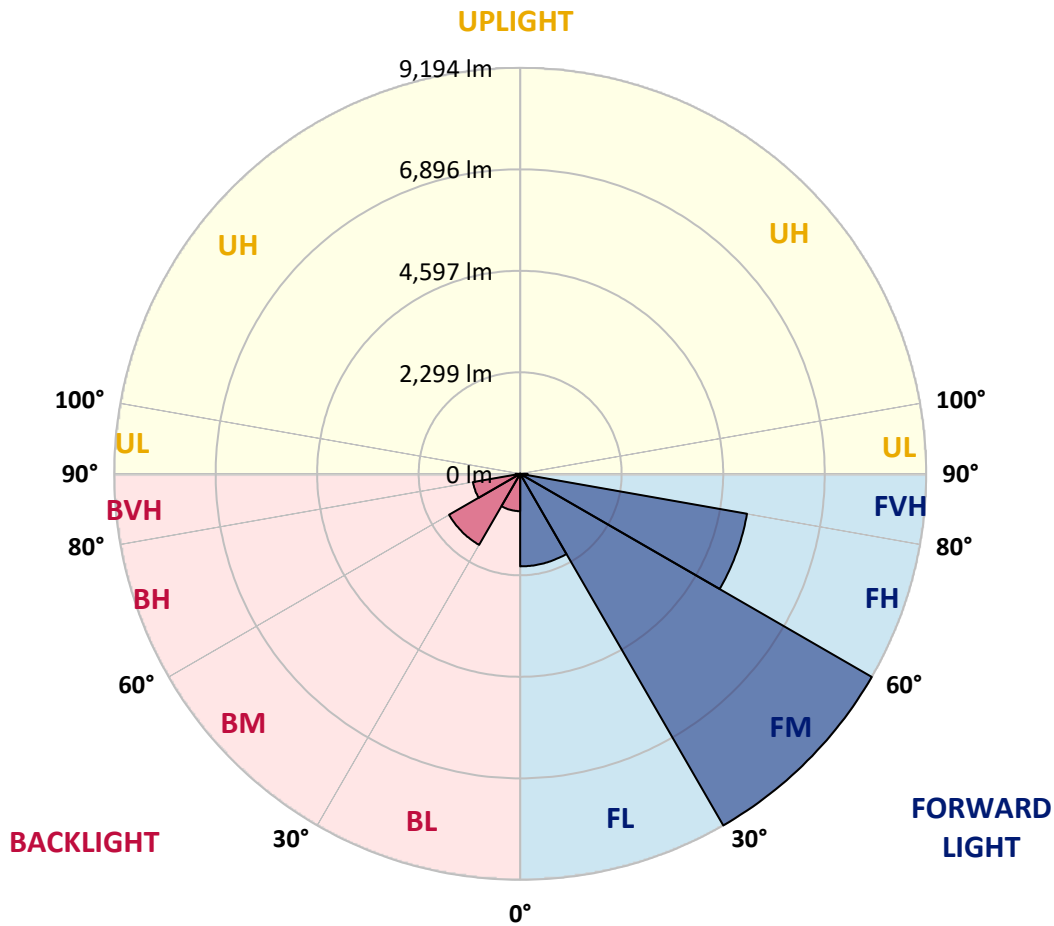
REPORT NUMBER: P948582
 CATALOG NUMBER: GALN-SB3C-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.3	10.2			
FM (30°-60°)	9194.4	44.7			
FH (60°-80°)	5215.9	25.4			G3/7500
FVH (80°-90°)	168.3	0.8			G2/225
BL (0°-30°)	845.8	4.1	B2/1000		
BM (30°-60°)	1858.2	9.0	B2/2500		
BH (60°-80°)	1085.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	100.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P948582
 CATALOG NUMBER: GALN-SB3C-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9
2.5°	3021.2	3042.4	3015.9	3015.9	2926.7	2880.0	2790.8	2722.9	2600.8	2579.6
5°	3571.1	3597.6	3560.5	3544.5	3439.4	3342.8	3193.2	3045.6	2828.0	2805.7
7.5°	3996.8	4030.7	3997.8	3980.8	3887.4	3779.1	3604.0	3398.0	3091.2	3047.7
10°	4343.9	4349.2	4338.6	4344.9	4271.7	4182.5	4003.1	3763.2	3380.0	3320.5
12.5°	4540.3	4564.7	4585.9	4624.1	4611.4	4556.2	4394.8	4108.2	3685.7	3609.3
15°	4632.6	4675.1	4722.9	4811.0	4882.1	4895.9	4772.7	4478.7	3996.8	3904.4
17.5°	4665.5	4705.9	4781.2	4908.6	5061.5	5164.5	5109.3	4838.6	4304.6	4198.4
20°	4832.2	4843.9	4889.5	5010.5	5176.1	5347.1	5388.5	5184.6	4609.3	4489.3
22.5°	5188.9	5165.5	5178.3	5233.5	5352.4	5518.0	5612.4	5490.4	4922.4	4784.4
25°	5778.0	5710.1	5642.2	5578.5	5639.0	5732.4	5839.6	5796.1	5250.4	5075.3
27.5°	6522.2	6439.4	6289.7	6080.6	6007.3	6040.2	6088.0	6079.5	5554.1	5376.8
30°	7254.7	7158.1	6979.7	6677.2	6484.0	6396.9	6360.8	6336.4	5884.2	5695.2
32.5°	7839.6	7763.1	7588.0	7249.4	6969.1	6820.5	6700.5	6613.5	6229.2	6040.2
35°	8351.2	8280.1	8079.5	7710.1	7405.4	7247.2	7090.1	6904.4	6588.0	6396.9
37.5°	8818.3	8747.2	8472.3	8088.0	7781.2	7671.9	7531.7	7216.4	6947.9	6767.4
40°	9113.4	9097.5	8840.6	8405.4	8086.9	8032.8	7986.1	7578.4	7347.0	7179.3
42.5°	9188.8	9223.8	9020.0	8662.3	8358.7	8315.2	8424.5	7988.2	7795.0	7634.7
45°	9007.3	9108.1	8974.4	8731.3	8551.9	8528.5	8813.0	8436.2	8290.7	8144.2
47.5°	8547.6	8718.5	8663.3	8629.4	8603.9	8704.7	9154.8	8911.8	8852.3	8724.9
50°	7619.8	7943.6	8040.2	8254.6	8500.9	8841.7	9465.9	9430.9	9508.3	9379.9
52.5°	6015.8	6461.7	7022.2	7559.3	8184.6	8796.0	9807.7	10176.1	10503.0	10433.0
55°	4966.0	5166.6	5597.6	6582.7	7571.0	8603.9	9961.6	10778.0	11490.3	11427.6
57.5°	4159.2	4338.6	4604.0	5426.7	6643.2	8167.6	10057.2	11145.3	12166.5	12160.1
60°	3294.0	3484.0	3755.8	4338.6	5559.4	7413.9	10035.9	11563.5	13029.5	13082.6
62.5°	2317.4	2526.5	2828.0	3371.5	4452.2	6437.3	9602.8	11866.1	14045.4	14189.8
65°	1523.3	1661.3	1888.5	2357.7	3317.4	5181.4	8775.9	11905.3	15132.5	15376.6
67.5°	1067.9	1121.0	1254.8	1509.5	2186.8	3973.4	7458.5	11498.8	15857.5	16132.4
70°	833.3	859.9	927.8	1029.7	1373.7	2671.9	5715.4	10441.5	15702.5	15989.1
72.5°	719.7	745.2	770.7	783.4	921.4	1649.7	3871.5	8730.2	14242.9	14437.1
75°	652.9	659.2	680.5	676.2	702.7	1070.0	2234.6	6360.8	11237.6	11170.7
77.5°	548.8	557.3	592.3	587.0	624.2	731.4	1160.3	4105.0	7285.4	6831.1
80°	465.0	469.2	507.4	501.1	542.5	529.7	592.3	2092.3	3090.2	2617.8
82.5°	161.4	199.6	387.5	399.1	414.0	320.6	341.8	853.5	943.7	722.9
85°	78.6	83.9	197.4	280.3	279.2	161.4	166.7	304.7	297.2	233.5
87.5°	12.7	15.9	23.4	109.3	87.0	42.5	57.3	59.4	61.6	53.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948582
 CATALOG NUMBER: GALN-SB3C-830-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2412.9	0°	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9	2412.9
2498.9	2.5°	2439.5	2386.4	2274.9	2171.9	2091.3	2013.8	1970.2	1933.1	1911.9	1907.6
2615.7	5°	2505.3	2395.9	2193.2	2022.3	1910.8	1828.0	1784.5	1756.9	1743.1	1734.6
2772.8	7.5°	2599.7	2439.5	2150.7	1956.4	1839.7	1780.2	1757.9	1753.7	1752.6	1753.7
2962.8	10°	2730.3	2510.6	2146.5	1940.5	1842.9	1810.0	1808.9	1810.0	1814.2	1815.3
3169.8	12.5°	2871.5	2583.8	2163.4	1954.3	1883.2	1865.2	1862.0	1860.9	1864.1	1866.2
3378.9	15°	3025.4	2680.4	2192.1	1984.0	1927.8	1908.7	1905.5	1899.1	1898.1	1897.0
3598.7	17.5°	3183.6	2776.0	2224.0	2015.9	1956.4	1929.9	1918.2	1903.4	1891.7	1888.5
3825.8	20°	3343.9	2870.4	2246.2	2031.8	1958.6	1921.4	1898.1	1872.6	1852.4	1840.7
4055.1	22.5°	3514.8	2969.2	2260.0	2027.6	1939.5	1888.5	1846.0	1816.3	1785.5	1765.4
4286.6	25°	3681.5	3055.2	2259.0	2005.3	1902.3	1837.6	1783.4	1745.2	1702.7	1681.5
4525.4	27.5°	3841.8	3132.6	2232.4	1966.0	1849.2	1777.0	1712.3	1666.6	1625.2	1605.1
4766.4	30°	4007.4	3197.4	2191.0	1908.7	1786.6	1707.0	1635.9	1596.6	1559.4	1540.3
5021.2	32.5°	4171.9	3256.8	2132.7	1837.6	1714.4	1638.0	1567.9	1531.8	1509.5	1509.5
5295.0	35°	4346.0	3298.2	2055.2	1754.7	1638.0	1564.7	1509.5	1488.3	1486.2	1473.4
5584.8	37.5°	4529.7	3324.8	1960.7	1669.8	1562.6	1493.6	1476.6	1451.1	1429.9	1402.3
5903.3	40°	4722.9	3351.3	1847.1	1581.7	1483.0	1444.8	1437.3	1403.4	1342.9	1274.9
6264.2	42.5°	4957.5	3369.4	1729.3	1493.6	1399.1	1386.4	1397.0	1338.6	1242.0	1191.1
6699.5	45°	5229.2	3399.1	1621.0	1406.6	1313.1	1313.1	1357.7	1281.3	1201.7	1169.8
7196.3	47.5°	5581.7	3468.1	1520.1	1311.0	1233.5	1254.8	1270.7	1212.3	1167.7	1128.4
7801.4	50°	6091.2	3633.7	1416.1	1214.4	1173.0	1215.5	1193.2	1159.2	1107.2	1075.4
8763.1	52.5°	6723.9	3731.4	1323.8	1127.4	1121.0	1163.5	1131.6	1099.8	1060.5	1018.0
9492.4	55°	7154.9	3749.4	1246.3	1063.7	1086.0	1081.7	1070.0	1041.4	1020.2	963.9
10212.2	57.5°	7636.8	3785.5	1182.6	1025.5	1063.7	1017.0	1012.7	988.3	960.7	922.5
11090.1	60°	8213.2	3841.8	1127.4	1010.6	1044.6	974.5	953.3	943.7	916.1	897.0
12146.3	62.5°	8841.7	3892.7	1071.1	1012.7	1022.3	933.1	901.3	898.1	881.1	874.7
13137.8	65°	9270.6	3753.7	1001.0	1010.6	987.2	890.6	850.3	849.2	835.4	833.3
13567.7	67.5°	9120.9	3313.1	906.6	980.9	951.2	848.2	803.6	799.4	781.3	782.4
13118.7	70°	8371.4	2684.7	776.0	907.6	906.6	810.0	754.8	741.0	716.5	720.8
11406.4	72.5°	6965.9	1989.4	600.8	785.6	835.4	774.9	698.5	676.2	645.4	649.7
8420.3	75°	5030.7	1352.4	437.4	597.7	727.2	733.5	643.3	605.1	567.9	574.3
4686.8	77.5°	2574.3	766.4	321.7	411.9	571.1	666.7	593.4	542.5	534.0	593.4
1351.4	80°	839.7	384.3	222.9	288.7	374.7	545.6	520.2	461.8	459.7	473.5
283.4	82.5°	250.5	162.4	143.3	190.0	207.0	418.3	449.0	349.3	300.4	316.3
94.5	85°	86.0	78.6	81.7	94.5	98.7	245.2	314.2	231.4	218.7	241.0
21.2	87.5°	20.2	27.6	23.4	21.2	21.2	59.4	122.1	96.6	133.8	89.2
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>
2412.9
1907.6
1733.5
1756.9
1816.3
1867.3
1895.9
1891.7
1845.0
1766.4
1681.5
1604.0
1539.3
1510.6
1470.3
1398.1
1265.4
1192.1
1175.1
1127.4
1072.2
1009.5
965.0
909.8
902.3
874.7
832.3
782.4
725.0
648.6
576.4
584.9
406.6
327.0
237.8
86.0
0.0

F REPORT)