

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: P944818

Luminaire Tested: **GALN-SB9D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50853 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

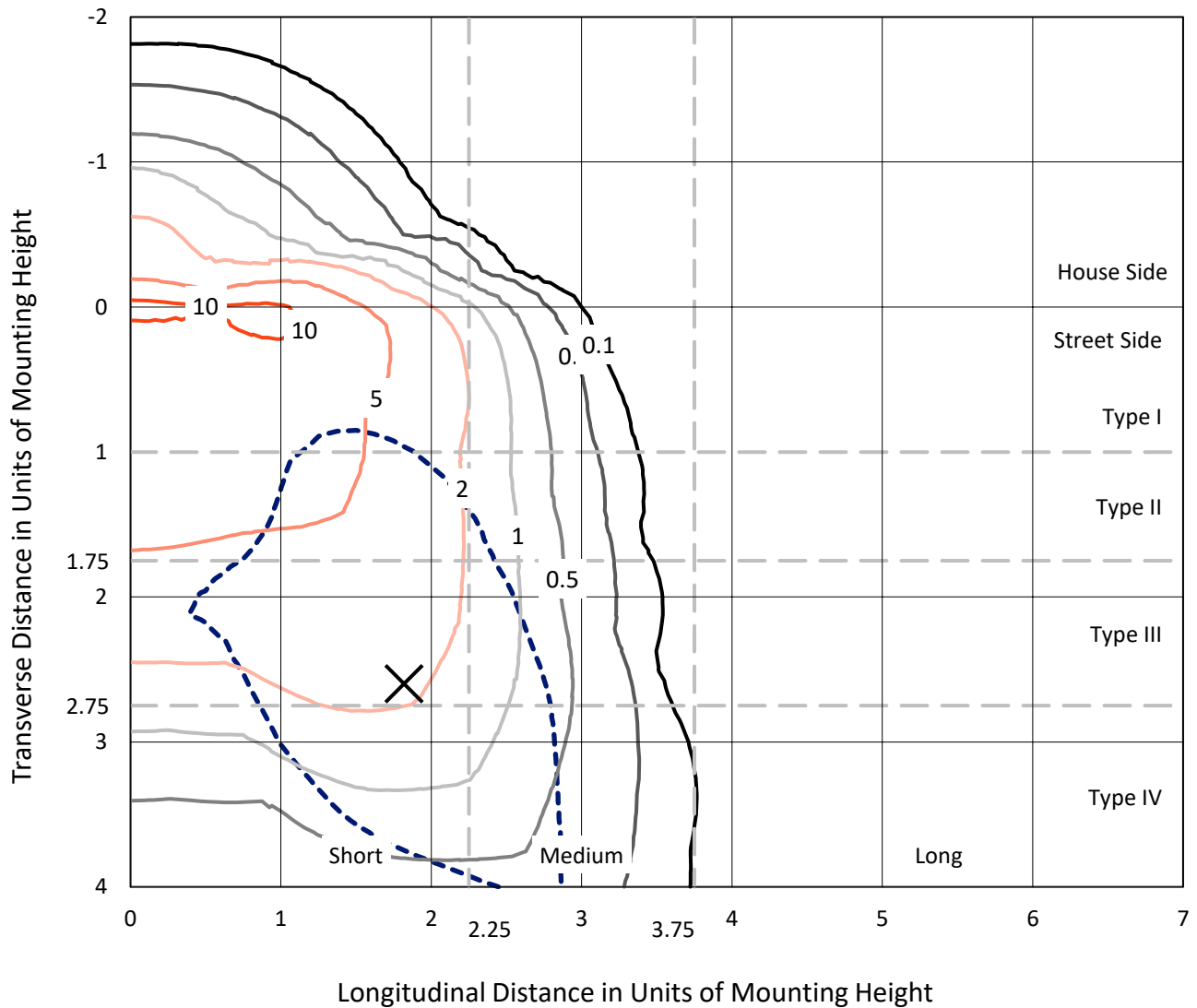
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944818
 CATALOG NUMBER: GALN-SB9D-940-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

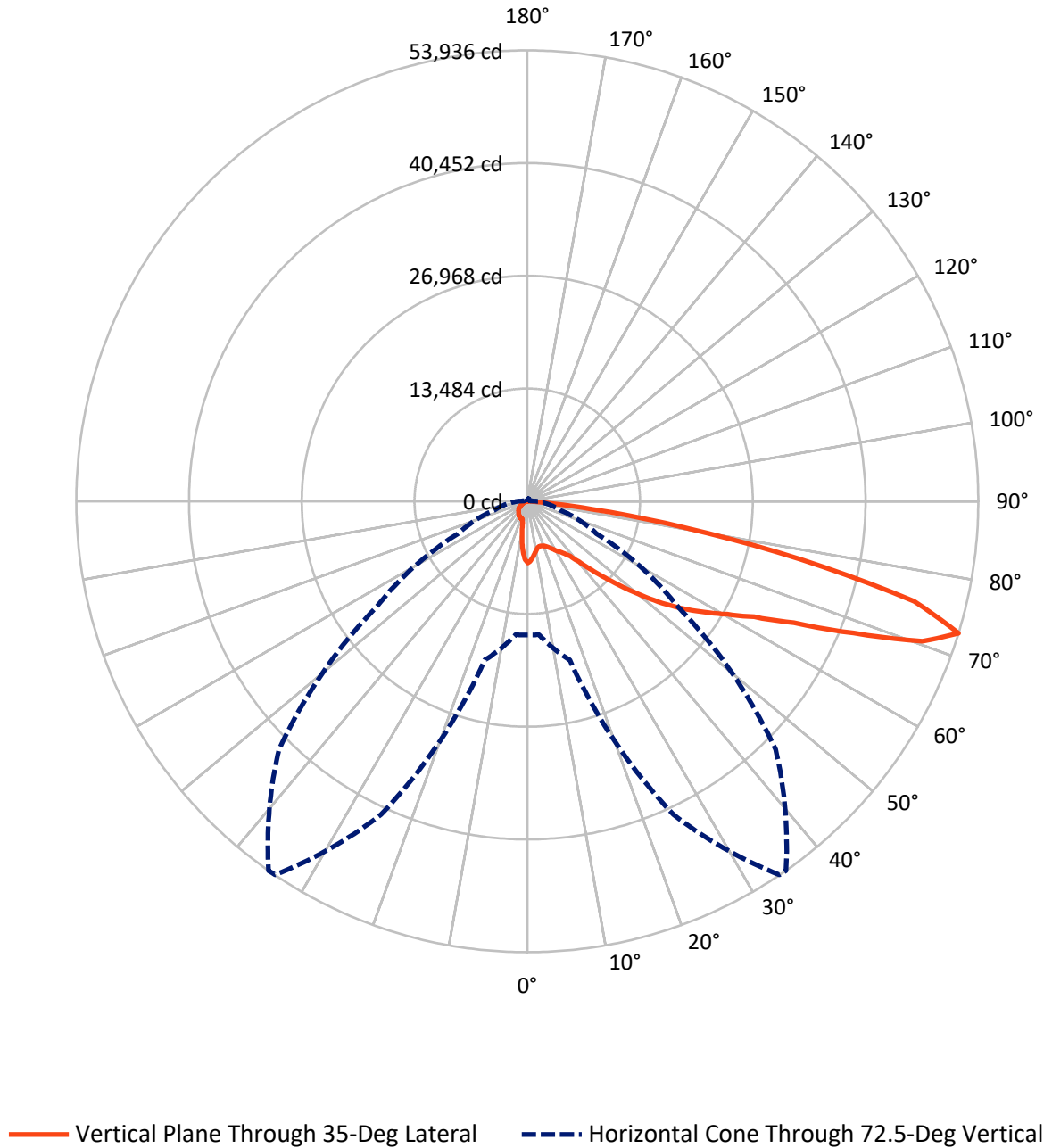
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P944818
CATALOG NUMBER: GALN-SB9D-940-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944818
 CATALOG NUMBER: GALN-SB9D-940-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5723.3	0.0	5723.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	45129.7	0.0	45129.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	50853.0	0.0	50853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.6	1.2
10°-20°	1416.8	2.8
20°-30°	2301.6	4.5
30°-40°	3840.2	7.6
40°-50°	7265.8	14.3
50°-60°	11545.2	22.7
60°-70°	14282.3	28.1
70°-80°	8878.0	17.5
80°-90°	717.5	1.4
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°	50853.0	100.0
0°-180°	50853.0	100.0

Coefficient of Utilization



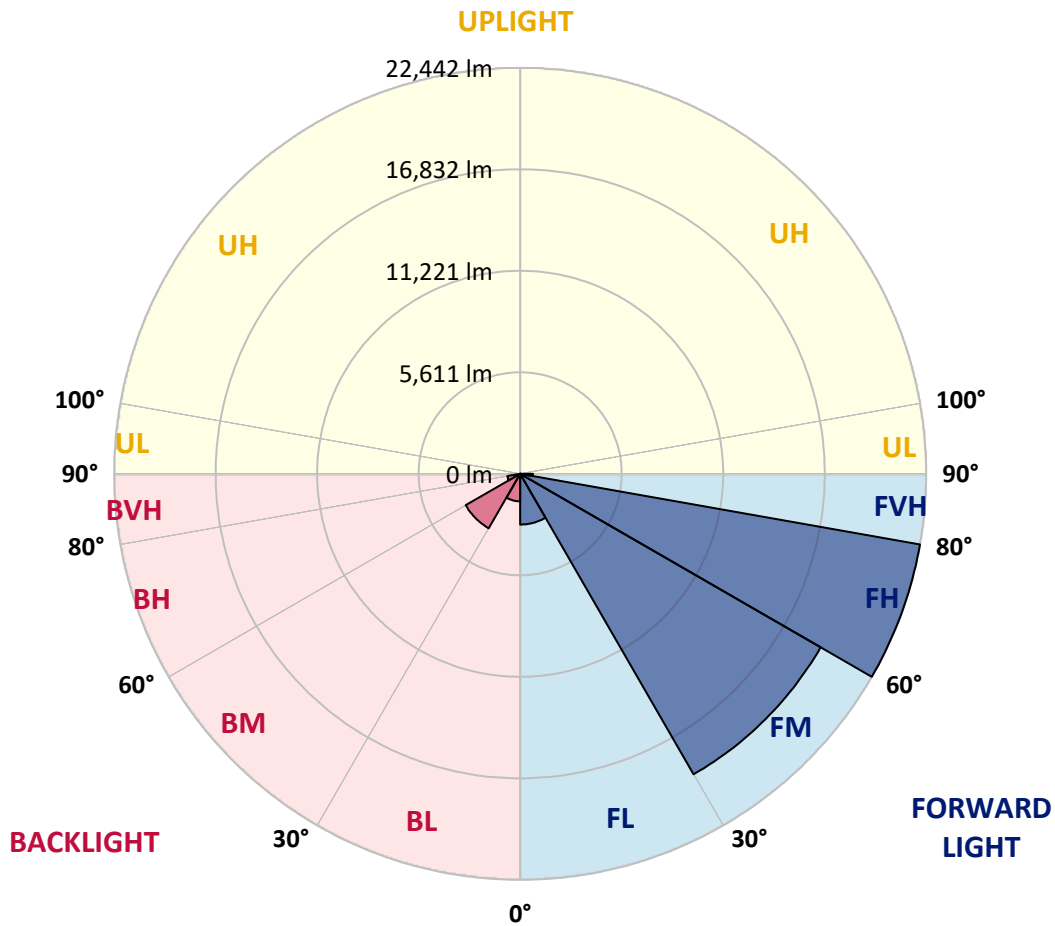
REPORT NUMBER: P944818
 CATALOG NUMBER: GALN-SB9D-940-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2803.3	5.5			
FM (30°-60°)	19176.7	37.7			
FH (60°-80°)	22442.1	44.1			G5
FVH (80°-90°)	707.7	1.4			G4/750
BL (0°-30°)	1520.8	3.0	B3/2500		
BM (30°-60°)	3474.5	6.8	B3/5000		
BH (60°-80°)	718.2	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.8	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 IV Short



REPORT NUMBER: P944818
 CATALOG NUMBER: GALN-SB9D-940-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3
2.5°	7042.4	7102.0	7113.2	7131.8	7131.8	7154.2	7191.4	7243.6	7329.3	7374.0
5°	6490.9	6535.6	6591.5	6636.3	6722.0	6733.1	6878.5	7020.0	7217.5	7366.6
7.5°	5935.7	5987.9	6062.4	6170.5	6282.3	6315.8	6535.6	6774.1	7087.1	7366.6
10°	5544.5	5548.2	5615.3	5723.4	5902.2	5943.2	6211.5	6550.6	6941.8	7321.9
12.5°	5324.7	5350.7	5380.5	5462.5	5633.9	5660.0	5946.9	6345.6	6796.5	7295.8
15°	5324.7	5343.3	5361.9	5402.9	5540.8	5563.1	5816.5	6215.2	6722.0	7307.0
17.5°	5380.5	5410.4	5395.5	5443.9	5589.2	5604.1	5827.7	6177.9	6718.2	7377.8
20°	5514.7	5537.0	5507.2	5537.0	5682.4	5712.2	5943.2	6248.7	6781.6	7500.7
22.5°	5727.1	5738.3	5667.5	5689.8	5838.9	5876.1	6144.4	6449.9	6934.3	7698.2
25°	5995.4	6017.7	5909.7	5935.7	6077.3	6122.0	6431.3	6751.8	7176.5	7970.2
27.5°	6304.6	6315.8	6222.7	6218.9	6401.5	6464.9	6777.8	7124.4	7500.7	8313.0
30°	6658.6	6692.1	6602.7	6587.8	6818.8	6871.0	7180.3	7582.7	7977.7	8827.2
32.5°	6938.1	6964.2	6912.0	6949.3	7184.0	7225.0	7668.4	8231.0	8726.6	9557.5
35°	7340.5	7355.4	7236.2	7303.2	7571.5	7675.8	8335.4	9140.2	9669.3	10474.2
37.5°	8797.4	8797.4	8290.7	7959.0	8216.1	8309.3	9248.3	10284.1	10831.9	11703.8
40°	10813.3	10779.7	10038.2	9360.1	9326.5	9509.1	10548.7	11726.2	12333.5	13179.4
42.5°	12963.2	12911.1	11901.3	11230.6	11118.8	11182.1	12050.3	13503.5	14122.1	14979.1
45°	14871.0	14856.1	13932.0	13030.3	12829.1	13030.3	13924.6	15582.7	16026.1	16927.9
47.5°	16469.5	16469.5	15795.1	15206.4	15102.0	15221.3	16462.1	17889.2	17848.2	19003.3
50°	18310.3	18295.3	17654.5	17401.1	17509.1	17676.8	19383.4	20318.6	19733.6	21041.5
52.5°	19599.5	19688.9	19469.1	19428.1	19979.6	20270.2	22349.4	22695.9	21421.6	22975.4
55°	20620.5	20724.8	20978.2	21265.1	22327.0	22707.1	25222.2	24950.2	22833.8	24652.1
57.5°	22066.2	21917.2	22308.4	22874.8	24592.5	25050.8	28005.7	27077.9	23970.3	26012.2
60°	23821.2	23843.6	23910.6	24626.1	26854.3	27443.0	30748.1	29090.0	24700.6	26846.8
62.5°	25930.2	25963.7	26101.6	27200.8	29891.1	30446.3	33669.4	30736.9	25035.9	26612.1
65°	25784.9	25926.5	27465.4	31225.1	34507.8	35055.5	37078.8	31892.0	24529.2	24465.8
67.5°	23489.6	23720.6	26295.4	36031.8	41468.2	42079.3	41199.9	32119.3	22341.9	19025.7
70°	20478.9	20560.8	23657.3	40354.1	49527.9	50146.4	44888.8	29619.1	16953.9	10612.0
72.5°	15992.6	16011.2	19644.2	41356.4	53902.3	53935.9	41993.6	21988.0	9117.9	4076.4
75°	11424.3	11312.6	13157.0	33539.0	47422.6	47802.6	31482.2	10314.0	3483.9	1926.4
77.5°	6125.8	6248.7	7444.8	19890.1	32760.2	33408.6	17177.5	2973.5	1773.6	1311.6
80°	1892.9	1997.2	3051.7	9106.7	18556.2	18947.4	6368.0	1322.8	1237.1	935.3
82.5°	596.2	618.5	1423.4	3826.7	7701.9	7880.8	1844.4	749.0	845.8	618.5
85°	171.4	175.1	633.4	1427.1	1904.1	1941.3	517.9	290.6	484.4	383.8
87.5°	18.6	59.6	238.5	238.5	167.7	164.0	55.9	63.3	137.9	48.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944818
 CATALOG NUMBER: GALN-SB9D-940-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7370.3	0°	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3	7370.3
7403.8	2.5°	7385.2	7388.9	7340.5	7258.5	7169.1	7094.6	7001.4	6926.9	6874.7	6859.8
7470.9	5°	7437.4	7411.3	7273.4	7023.8	6725.7	6468.6	6181.7	5954.4	5805.3	5742.0
7541.7	7.5°	7515.6	7441.1	7139.3	6647.4	6077.3	5570.6	5056.4	4657.7	4404.3	4277.6
7608.8	10°	7582.7	7433.6	6915.7	6103.4	5231.5	4463.9	3770.9	3290.2	3021.9	2895.2
7687.0	12.5°	7646.0	7429.9	6625.1	5458.8	4277.6	3338.6	2694.0	2455.5	2381.0	2354.9
7813.7	15°	7765.3	7441.1	6259.9	4721.0	3327.4	2522.6	2287.8	2284.1	2299.0	2291.6
8007.5	17.5°	7929.2	7452.3	5846.3	3938.5	2567.3	2224.5	2213.3	2246.9	2269.2	2258.0
8249.7	20°	8141.6	7497.0	5406.6	3163.5	2205.9	2150.0	2176.1	2205.9	2224.5	2205.9
8573.8	22.5°	8439.7	7575.2	4926.0	2541.2	2090.4	2105.3	2127.6	2161.2	2179.8	2153.7
8987.4	25°	8804.9	7698.2	4452.7	2209.6	2034.5	2053.1	2086.6	2123.9	2146.3	2120.2
9509.1	27.5°	9278.1	7895.7	4016.8	2135.1	1978.6	1989.8	2038.2	2094.1	2123.9	2090.4
10250.6	30°	9963.7	8219.9	3640.4	2168.6	1945.0	1919.0	1986.0	2064.3	2097.8	2068.0
11260.4	32.5°	10872.9	8678.2	3409.4	2220.8	1930.1	1837.0	1900.3	2000.9	2056.8	2038.2
12579.4	35°	12065.2	9375.0	3320.0	2280.4	1919.0	1751.3	1796.0	1904.1	2000.9	2019.6
14241.3	37.5°	13511.0	10343.8	3346.1	2306.5	1885.4	1680.5	1702.8	1796.0	1922.7	1982.3
16111.8	40°	15154.2	11472.8	3495.1	2280.4	1848.2	1620.9	1624.6	1695.4	1807.2	1896.6
18123.9	42.5°	16849.6	12791.8	3770.9	2183.5	1814.6	1568.7	1557.5	1606.0	1680.5	1743.8
20132.3	45°	18463.0	14148.2	4042.9	2049.4	1773.6	1516.5	1490.5	1509.1	1524.0	1550.1
22088.6	47.5°	19871.5	15102.0	3964.6	1926.4	1717.8	1456.9	1412.2	1404.8	1360.0	1356.3
23836.1	50°	20844.0	15310.7	3521.2	1803.5	1635.8	1389.9	1319.1	1274.3	1196.1	1158.8
25144.0	52.5°	21153.3	14487.2	2876.6	1680.5	1501.6	1300.4	1199.8	1129.0	1032.1	998.6
25896.7	55°	20743.4	12873.8	2299.0	1531.4	1315.3	1181.2	1069.4	976.2	898.0	857.0
25978.6	57.5°	19741.1	10820.7	1818.4	1356.3	1117.8	1047.0	935.3	842.1	775.0	734.0
25069.5	60°	18079.2	8592.5	1438.3	1147.7	953.9	901.7	786.2	726.6	667.0	618.5
22722.0	62.5°	15556.6	6133.2	1129.0	909.2	797.4	737.8	670.7	626.0	555.2	488.1
18500.3	65°	12139.8	3752.2	871.9	667.0	640.9	611.1	570.1	529.1	443.4	376.3
12069.0	67.5°	7657.2	1777.4	622.3	503.0	506.8	491.9	473.2	439.7	376.3	316.7
5406.6	70°	3372.2	860.7	409.9	383.8	376.3	376.3	391.2	380.1	320.4	264.6
1878.0	72.5°	1147.7	462.0	305.5	290.6	272.0	268.3	327.9	316.7	257.1	204.9
935.3	75°	599.9	309.3	223.6	208.7	164.0	197.5	260.8	245.9	182.6	134.1
618.5	77.5°	391.2	219.8	152.8	134.1	93.2	130.4	193.8	171.4	108.1	67.1
406.1	80°	245.9	145.3	89.4	63.3	44.7	70.8	104.3	74.5	41.0	14.9
238.5	82.5°	130.4	74.5	33.5	22.4	18.6	22.4	26.1	18.6	7.5	0.0
123.0	85°	52.2	26.1	11.2	7.5	3.7	0.0	7.5	3.7	0.0	0.0
22.4	87.5°	18.6	3.7	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>
7370.3
6885.9
5764.3
4296.2
2898.9
2347.5
2287.8
2254.3
2202.1
2150.0
2116.4
2090.4
2064.3
2038.2
2019.6
1997.2
1926.4
1769.9
1565.0
1352.6
1162.6
994.9
857.0
726.6
607.4
476.9
365.2
309.3
253.4
193.8
123.0
59.6
11.2
0.0
0.0
0.0
0.0

F REPORT)