

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: P944138

Luminaire Tested: **GALN-SB8D-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944138
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-SB8D-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 45146 lumens
Efficiency: N/A
Efficacy: 77.2 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

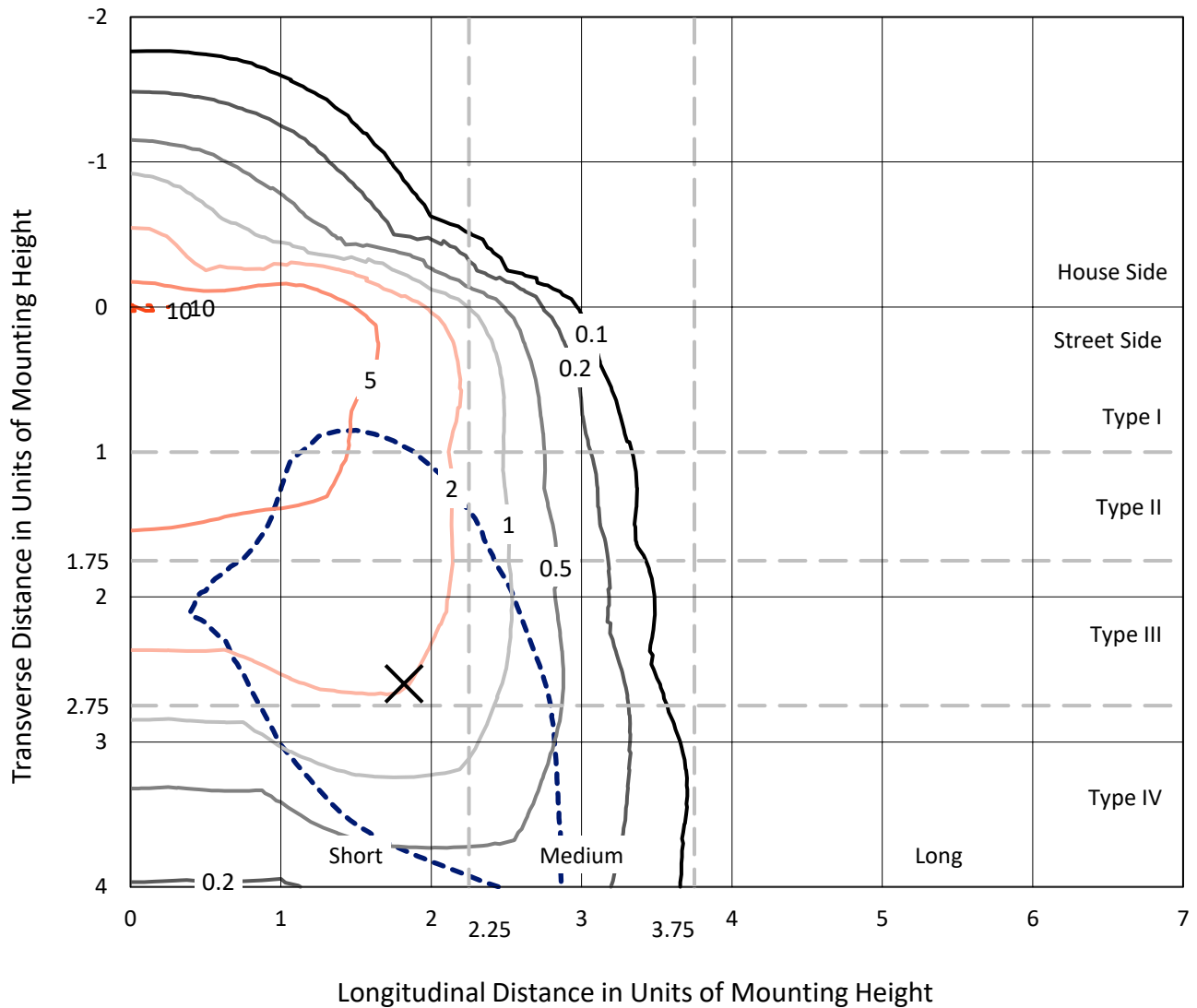
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944138
 CATALOG NUMBER: GALN-SB8D-940-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

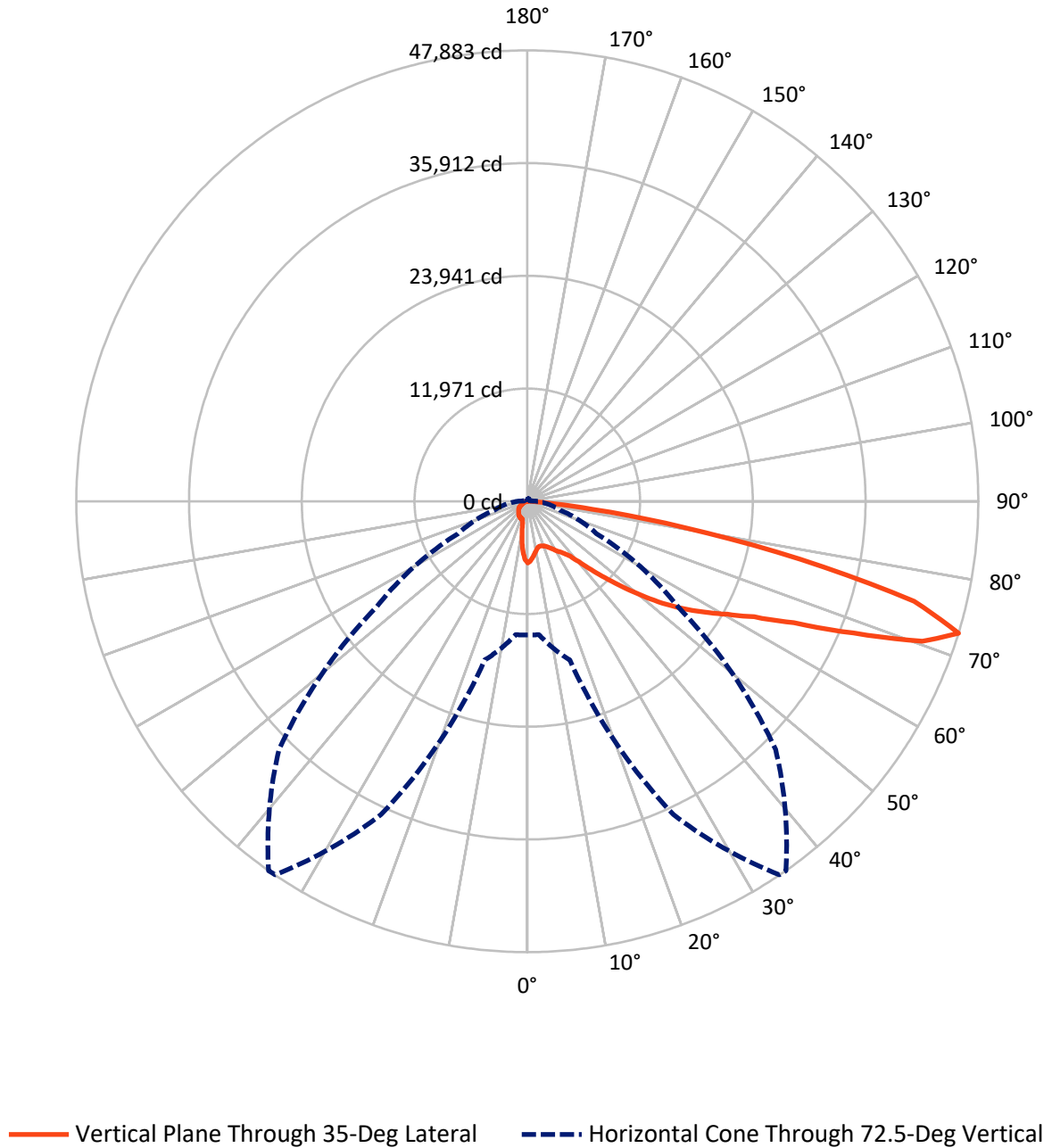
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P944138
CATALOG NUMBER: GALN-SB8D-940-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P944138
 CATALOG NUMBER: GALN-SB8D-940-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5081.0	0.0	5081.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	40065.0	0.0	40065.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	45146.0	0.0	45146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.7	1.2
10°-20°	1257.8	2.8
20°-30°	2043.3	4.5
30°-40°	3409.2	7.6
40°-50°	6450.4	14.3
50°-60°	10249.6	22.7
60°-70°	12679.4	28.1
70°-80°	7881.6	17.5
80°-90°	637.0	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°	45146.0	100.0
0°-180°	45146.0	100.0

Coefficient of Utilization



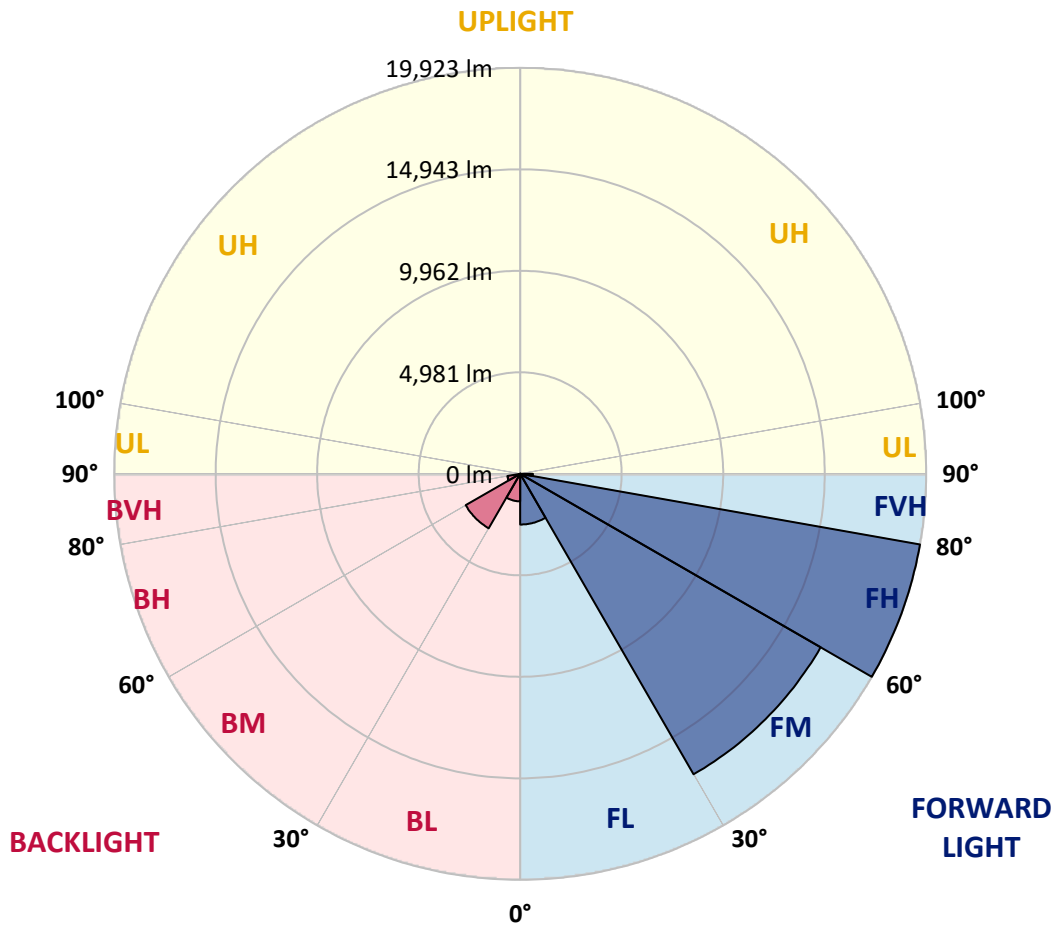
REPORT NUMBER: P944138
 CATALOG NUMBER: GALN-SB8D-940-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2488.7	5.5			
FM (30°-60°)	17024.6	37.7			
FH (60°-80°)	19923.5	44.1			G5
FVH (80°-90°)	628.3	1.4			G4/750
BL (0°-30°)	1350.1	3.0	B3/2500		
BM (30°-60°)	3084.6	6.8	B3/5000		
BH (60°-80°)	637.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	8.7	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: P944138
 CATALOG NUMBER: GALN-SB8D-940-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2
2.5°	6252.1	6305.0	6314.9	6331.5	6331.5	6351.3	6384.4	6430.7	6506.8	6546.5
5°	5762.5	5802.2	5851.8	5891.5	5967.6	5977.5	6106.5	6232.2	6407.5	6539.9
7.5°	5269.6	5315.9	5382.1	5478.0	5577.2	5607.0	5802.2	6013.9	6291.8	6539.9
10°	4922.3	4925.6	4985.1	5081.0	5239.8	5276.2	5514.4	5815.4	6162.8	6500.2
12.5°	4727.1	4750.2	4776.7	4849.5	5001.7	5024.8	5279.5	5633.5	6033.7	6477.0
15°	4727.1	4743.6	4760.2	4796.6	4919.0	4938.8	5163.7	5517.7	5967.6	6486.9
17.5°	4776.7	4803.2	4789.9	4832.9	4962.0	4975.2	5173.7	5484.6	5964.3	6549.8
20°	4895.8	4915.6	4889.2	4915.6	5044.7	5071.1	5276.2	5547.5	6020.5	6658.9
22.5°	5084.4	5094.3	5031.4	5051.3	5183.6	5216.7	5454.8	5726.1	6156.1	6834.3
25°	5322.5	5342.4	5246.4	5269.6	5395.3	5435.0	5709.6	5994.0	6371.2	7075.8
27.5°	5597.1	5607.0	5524.3	5521.0	5683.1	5739.3	6017.2	6324.8	6658.9	7380.1
30°	5911.3	5941.1	5861.7	5848.5	6053.6	6099.9	6374.5	6731.7	7082.4	7836.6
32.5°	6159.4	6182.6	6136.3	6169.4	6377.8	6414.2	6807.8	7307.3	7747.3	8484.9
35°	6516.7	6529.9	6424.1	6483.6	6721.8	6814.4	7399.9	8114.5	8584.2	9298.7
37.5°	7810.1	7810.1	7360.2	7065.8	7294.1	7376.8	8210.4	9130.0	9616.3	10390.3
40°	9599.7	9570.0	8911.7	8309.6	8279.9	8441.9	9364.9	10410.2	10949.4	11700.3
42.5°	11508.4	11462.1	10565.7	9970.2	9871.0	9927.2	10698.0	11988.1	12537.2	13298.0
45°	13202.1	13188.9	12368.5	11568.0	11389.3	11568.0	12361.9	13833.9	14227.6	15028.1
47.5°	14621.2	14621.2	14022.5	13499.8	13407.2	13513.1	14614.6	15881.6	15845.2	16870.7
50°	16255.4	16242.1	15673.2	15448.2	15544.2	15693.0	17208.1	18038.4	17519.0	18680.1
52.5°	17399.9	17479.3	17284.2	17247.8	17737.3	17995.4	19841.2	20148.9	19017.5	20397.0
55°	18306.3	18398.9	18623.9	18878.6	19821.4	20158.8	22391.7	22150.2	20271.3	21885.5
57.5°	19589.8	19457.5	19804.8	20307.6	21832.6	22239.5	24862.7	24039.0	21280.2	23093.0
60°	21147.9	21167.7	21227.3	21862.4	23840.6	24363.2	27297.4	25825.3	21928.5	23833.9
62.5°	23020.2	23050.0	23172.3	24148.2	26536.6	27029.4	29890.8	27287.5	22226.3	23625.5
65°	22891.2	23016.9	24383.1	27720.8	30635.1	31121.4	32917.6	28312.9	21776.4	21720.1
67.5°	20853.5	21058.6	23344.4	31988.1	36814.4	37356.9	36576.2	28514.7	19834.6	16890.5
70°	18180.6	18253.4	21002.3	35825.3	43969.6	44518.7	39851.1	26295.1	15051.3	9421.1
72.5°	14197.8	14214.4	17439.6	36715.2	47853.1	47882.9	37280.8	19520.3	8094.6	3618.9
75°	10142.2	10043.0	11680.4	29775.1	42100.6	42438.0	27949.1	9156.5	3093.0	1710.2
77.5°	5438.3	5547.5	6609.3	17658.0	29083.7	29659.3	15249.8	2639.8	1574.6	1164.4
80°	1680.4	1773.1	2709.2	8084.7	16473.7	16821.0	5653.3	1174.3	1098.2	830.3
82.5°	529.3	549.1	1263.6	3397.3	6837.6	6996.4	1637.4	664.9	750.9	549.1
85°	152.2	155.5	562.4	1267.0	1690.4	1723.5	459.8	258.0	430.0	340.7
87.5°	16.5	52.9	211.7	211.7	148.9	145.6	49.6	56.2	122.4	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944138
 CATALOG NUMBER: GALN-SB8D-940-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6543.2	0°	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2	6543.2
6572.9	2.5°	6556.4	6559.7	6516.7	6443.9	6364.5	6298.4	6215.7	6149.5	6103.2	6090.0
6632.5	5°	6602.7	6579.6	6457.2	6235.5	5970.9	5742.6	5487.9	5286.1	5153.8	5097.6
6695.3	7.5°	6672.2	6606.0	6338.1	5901.4	5395.3	4945.4	4488.9	4135.0	3910.0	3797.6
6754.9	10°	6731.7	6599.4	6139.6	5418.5	4644.4	3963.0	3347.7	2920.9	2682.8	2570.3
6824.3	12.5°	6788.0	6596.1	5881.6	4846.2	3797.6	2963.9	2391.7	2180.0	2113.8	2090.6
6936.8	15°	6893.8	6606.0	5557.4	4191.2	2954.0	2239.5	2031.1	2027.8	2041.0	2034.4
7108.8	17.5°	7039.4	6615.9	5190.2	3496.5	2279.2	1974.9	1964.9	1994.7	2014.6	2004.6
7323.9	20°	7227.9	6655.6	4799.9	2808.5	1958.3	1908.7	1931.9	1958.3	1974.9	1958.3
7611.6	22.5°	7492.6	6725.1	4373.1	2256.0	1855.8	1869.0	1888.9	1918.6	1935.2	1912.0
7978.8	25°	7816.7	6834.3	3953.0	1961.6	1806.2	1822.7	1852.5	1885.5	1905.4	1882.2
8441.9	27.5°	8236.9	7009.6	3566.0	1895.5	1756.5	1766.5	1809.5	1859.1	1885.5	1855.8
9100.2	30°	8845.5	7297.4	3231.9	1925.2	1726.8	1703.6	1763.1	1832.6	1862.4	1835.9
9996.7	32.5°	9652.7	7704.3	3026.8	1971.6	1713.5	1630.8	1687.1	1776.4	1826.0	1809.5
11167.7	35°	10711.2	8322.9	2947.4	2024.5	1703.6	1554.7	1594.4	1690.4	1776.4	1792.9
12643.1	37.5°	11994.7	9182.9	2970.6	2047.6	1673.8	1491.9	1511.7	1594.4	1706.9	1759.8
14303.7	40°	13453.5	10185.2	3102.9	2024.5	1640.8	1439.0	1442.3	1505.1	1604.4	1683.8
16090.0	42.5°	14958.7	11356.3	3347.7	1938.5	1611.0	1392.7	1382.7	1425.7	1491.9	1548.1
17873.0	45°	16391.0	12560.4	3589.1	1819.4	1574.6	1346.3	1323.2	1339.7	1353.0	1376.1
19609.7	47.5°	17641.4	13407.2	3519.7	1710.2	1525.0	1293.4	1253.7	1247.1	1207.4	1204.1
21161.1	50°	18504.8	13592.5	3126.0	1601.1	1452.2	1233.9	1171.0	1131.3	1061.9	1028.8
22322.2	52.5°	18779.4	12861.4	2553.8	1491.9	1333.1	1154.5	1065.2	1002.3	916.3	886.5
22990.4	55°	18415.5	11429.0	2041.0	1359.6	1167.7	1048.6	949.4	866.7	797.2	760.8
23063.2	57.5°	17525.6	9606.4	1614.3	1204.1	992.4	929.5	830.3	747.6	688.1	651.7
22256.0	60°	16050.3	7628.2	1276.9	1018.9	846.8	800.5	698.0	645.1	592.1	549.1
20172.0	62.5°	13810.8	5444.9	1002.3	807.1	707.9	655.0	595.4	555.7	492.9	433.3
16424.1	65°	10777.4	3331.1	774.1	592.1	569.0	542.5	506.1	469.7	393.6	334.1
10714.5	67.5°	6797.9	1577.9	552.4	446.6	449.9	436.7	420.1	390.3	334.1	281.2
4799.9	70°	2993.7	764.1	363.9	340.7	334.1	334.1	347.3	337.4	284.5	234.9
1667.2	72.5°	1018.9	410.2	271.3	258.0	241.5	238.2	291.1	281.2	228.3	181.9
830.3	75°	532.6	274.6	198.5	185.2	145.6	175.3	231.6	218.3	162.1	119.1
549.1	77.5°	347.3	195.2	135.6	119.1	82.7	115.8	172.0	152.2	95.9	59.5
360.6	80°	218.3	129.0	79.4	56.2	39.7	62.9	92.6	66.2	36.4	13.2
211.7	82.5°	115.8	66.2	29.8	19.8	16.5	19.8	23.2	16.5	6.6	0.0
109.2	85°	46.3	23.2	9.9	6.6	3.3	0.0	6.6	3.3	0.0	0.0
19.8	87.5°	16.5	3.3	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>
6543.2
6113.1
5117.4
3814.1
2573.6
2084.0
2031.1
2001.3
1955.0
1908.7
1878.9
1855.8
1832.6
1809.5
1792.9
1773.1
1710.2
1571.3
1389.3
1200.8
1032.1
883.2
760.8
645.1
539.2
423.4
324.2
274.6
224.9
172.0
109.2
52.9
9.9
0.0
0.0
0.0
0.0

F REPORT)