

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: P956063

Luminaire Tested: **GALN-SB8D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55116 lumens
Efficiency: N/A
Efficacy: 94.2 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

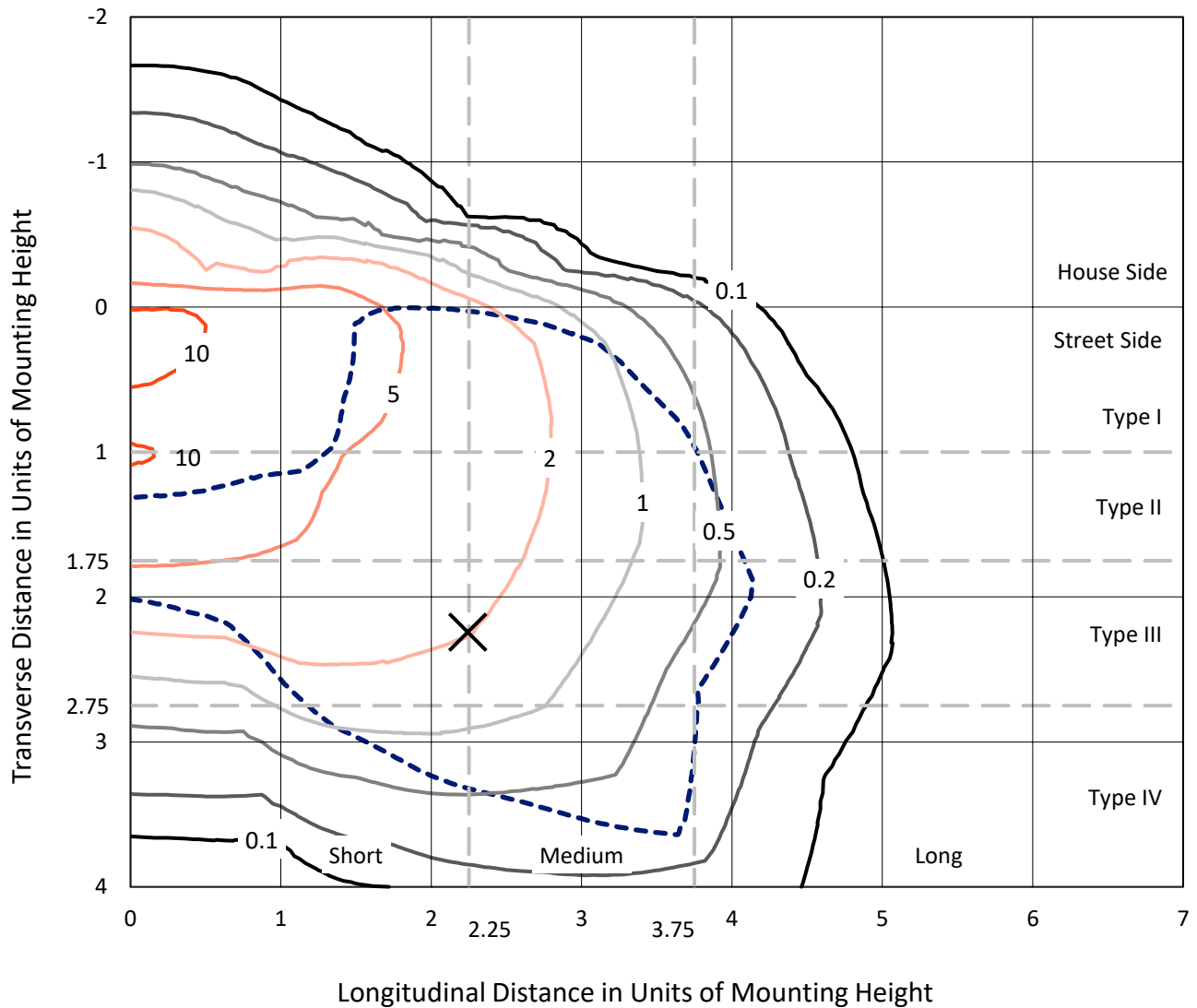
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956063
 CATALOG NUMBER: GALN-SB8D-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

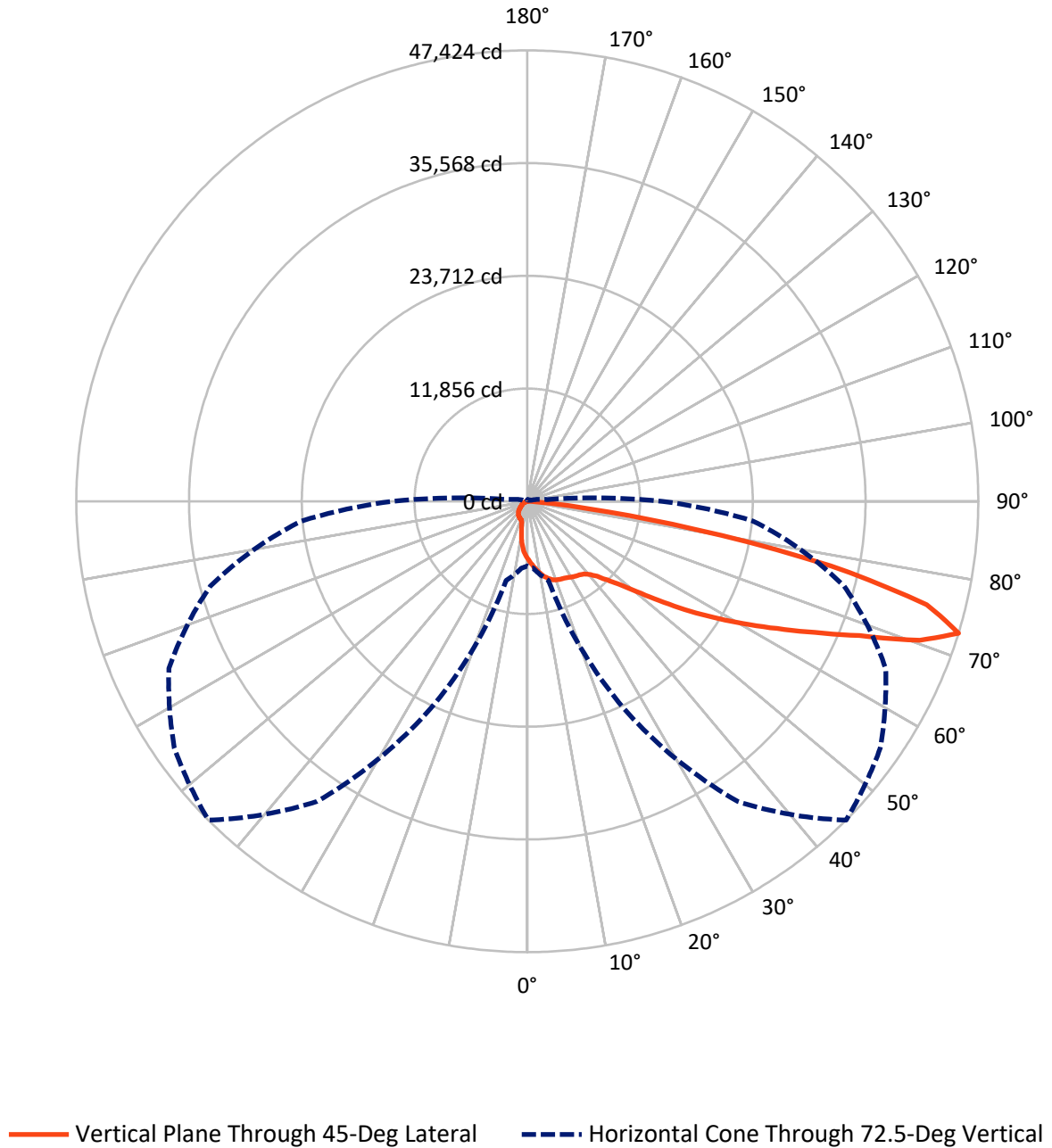
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P956063
CATALOG NUMBER: GALN-SB8D-827-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P956063
 CATALOG NUMBER: GALN-SB8D-827-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5791.2	0.0	5791.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	49324.8	0.0	49324.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	55116.0	0.0	55116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.9	1.0
10°-20°	1662.7	3.0
20°-30°	2730.4	5.0
30°-40°	3872.3	7.0
40°-50°	6400.5	11.6
50°-60°	11497.8	20.9
60°-70°	15965.4	29.0
70°-80°	11580.8	21.0
80°-90°	837.2	1.5
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°	55116.0	100.0
0°-180°	55116.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956063

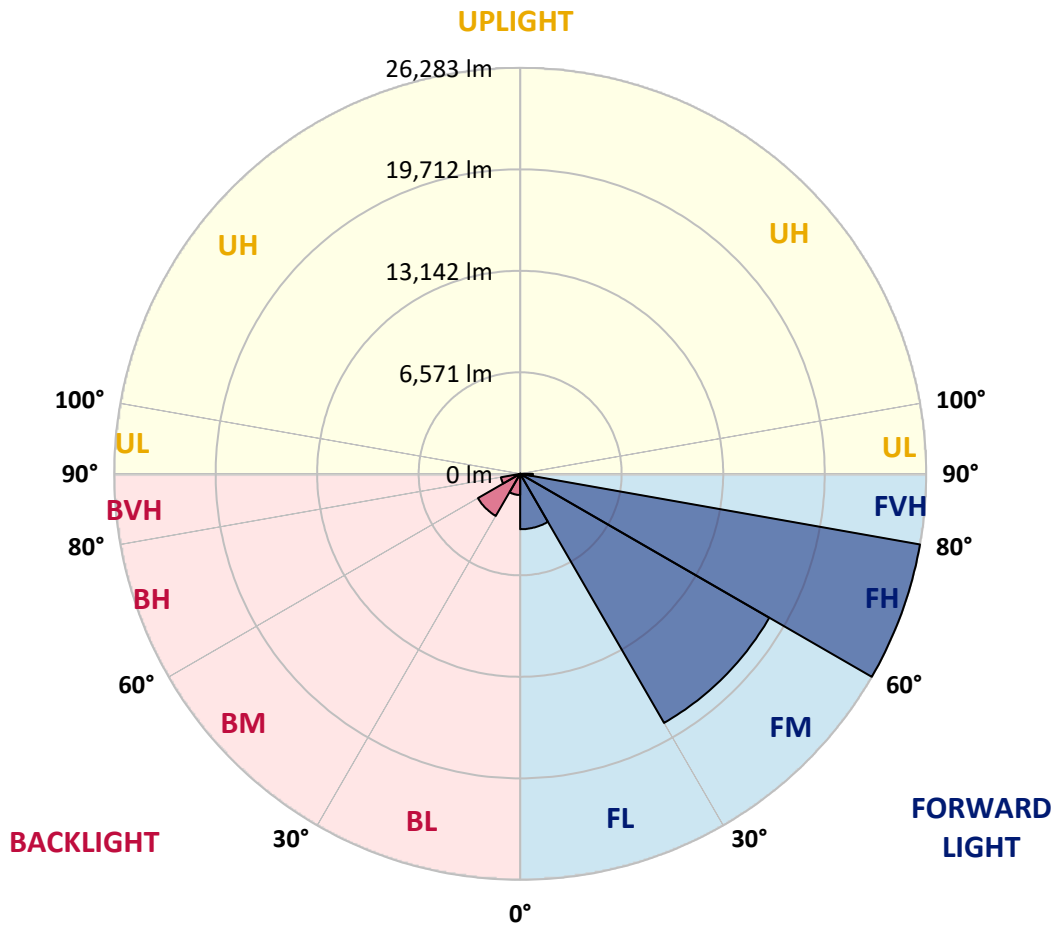
CATALOG NUMBER: GALN-SB8D-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3590.3	6.5			
FM (30°-60°)	18621.1	33.8			
FH (60°-80°)	26283.3	47.7			G5
FVH (80°-90°)	830.2	1.5			G5
BL (0°-30°)	1371.7	2.5	B3/2500		
BM (30°-60°)	3149.6	5.7	B3/5000		
BH (60°-80°)	1262.9	2.3	B3/2500		G3/2500
BVH (80°-90°)	7.0	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: P956063
 CATALOG NUMBER: GALN-SB8D-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1
2.5°	6594.9	6606.1	6598.6	6553.5	6478.2	6436.9	6414.3	6339.0	6290.1	6203.6
5°	7200.5	7245.7	7219.4	7129.1	6986.1	6884.5	6854.4	6700.2	6561.0	6399.2
7.5°	7843.9	7866.4	7817.5	7700.9	7509.0	7336.0	7309.6	7095.2	6873.2	6625.0
10°	8400.6	8427.0	8351.7	8182.4	7964.2	7749.8	7712.2	7475.2	7211.8	6907.1
12.5°	8867.1	8893.5	8795.7	8592.5	8351.7	8129.8	8092.1	7843.9	7554.2	7215.6
15°	9220.8	9269.7	9138.0	8919.8	8660.2	8438.3	8419.4	8174.9	7892.8	7516.6
17.5°	9427.7	9476.6	9352.4	9089.1	8867.1	8679.0	8656.5	8453.3	8190.0	7828.8
20°	9461.5	9506.7	9375.0	9145.5	8961.2	8810.7	8799.4	8652.7	8460.8	8114.7
22.5°	9360.0	9416.4	9296.0	9111.7	8983.8	8904.7	8889.7	8806.9	8697.8	8404.4
25°	9254.6	9299.8	9209.5	9047.7	8980.0	8972.5	8983.8	8968.7	8946.1	8697.8
27.5°	9247.1	9296.0	9194.4	9040.2	9002.6	9081.6	9092.9	9164.3	9183.1	8964.9
30°	9311.1	9344.9	9247.1	9085.3	9066.5	9247.1	9250.9	9378.8	9408.9	9190.7
32.5°	9450.2	9487.9	9390.1	9153.0	9126.7	9378.8	9390.1	9559.3	9608.3	9431.4
35°	9777.5	9822.7	9709.8	9341.1	9247.1	9502.9	9536.8	9736.2	9834.0	9687.3
37.5°	10593.9	10462.2	10308.0	9721.1	9521.7	9698.5	9755.0	9988.2	10161.3	9992.0
40°	12621.6	12207.8	11726.3	10368.2	10003.3	10116.1	10161.3	10394.5	10631.5	10466.0
42.5°	15665.1	15176.1	14401.1	11858.0	10729.3	10785.8	10819.6	11022.8	11357.6	11225.9
45°	18377.6	18200.8	17410.7	14401.1	12087.4	11809.0	11850.4	11955.8	12448.6	12399.7
47.5°	20461.7	20360.2	19750.7	17320.4	14382.3	13061.8	13178.4	13227.3	13938.4	14111.4
50°	22064.4	22026.7	21481.3	19916.2	17380.6	14909.0	14950.3	14845.0	15909.7	16338.5
52.5°	23576.7	23704.6	23302.1	22327.7	20582.1	17328.0	17320.4	16823.8	18260.9	18908.0
55°	24942.3	24987.5	25028.9	24788.1	23802.4	20081.8	20010.3	19197.7	20988.4	21658.1
57.5°	26225.2	26244.0	26612.7	27105.5	27154.4	23038.7	22907.1	21932.7	23968.0	24445.7
60°	27086.7	27173.2	27952.0	29321.3	29919.5	26089.8	26018.3	25025.1	27000.2	27222.1
62.5°	25845.2	26371.9	28335.7	31051.9	32530.4	29471.8	29438.0	28505.0	30190.4	30009.8
65°	20920.7	21812.3	25265.9	32221.9	35092.3	33248.9	33297.8	32304.6	33467.1	32880.2
67.5°	14634.3	15574.8	19660.4	32315.9	37955.2	37684.4	37966.5	36409.0	36947.0	35630.3
70°	10119.9	10605.2	13265.0	30292.0	40186.1	43793.9	43786.4	41450.2	40408.1	36883.0
72.5°	6805.5	7057.6	8615.1	24031.9	38545.9	47424.3	47206.1	45302.5	41574.3	34494.1
75°	2870.4	3054.8	3987.8	13505.7	30495.1	43387.6	42797.0	40035.6	36939.5	27161.9
77.5°	910.4	989.4	1572.5	4834.2	16797.5	32613.1	31988.6	25002.5	24758.0	13626.1
80°	432.6	504.1	884.1	1941.2	6609.9	17738.0	17651.5	11342.6	10650.3	3679.3
82.5°	188.1	222.0	489.1	1038.3	2957.0	6327.8	6455.7	3859.9	3194.0	1395.7
85°	60.2	79.0	225.7	477.8	1249.0	1572.5	1553.7	917.9	1286.6	759.9
87.5°	0.0	0.0	75.2	109.1	127.9	90.3	101.6	79.0	357.4	210.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956063
 CATALOG NUMBER: GALN-SB8D-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6038.1	0°	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1	6038.1
6113.3	2.5°	6068.2	6008.0	5902.6	5804.8	5718.3	5631.8	5579.1	5503.9	5496.3	5496.3
6211.1	5°	6109.6	6011.7	5823.6	5624.3	5394.8	5176.6	4958.4	4747.7	4680.0	4631.1
6369.1	7.5°	6229.9	6075.7	5778.5	5398.5	4962.1	4484.4	4149.5	3788.4	3649.2	3573.9
6579.8	10°	6403.0	6192.3	5740.9	5075.0	4367.7	3716.9	3239.1	2847.9	2697.4	2633.4
6809.3	12.5°	6594.9	6335.3	5673.2	4672.5	3716.9	2938.2	2471.7	2291.1	2268.5	2268.5
7083.9	15°	6824.3	6508.3	5556.5	4198.4	3036.0	2324.9	2159.4	2166.9	2189.5	2204.6
7351.0	17.5°	7061.4	6692.7	5372.2	3668.0	2434.0	2091.7	2095.5	2106.7	2125.6	2140.6
7640.7	20°	7317.2	6877.0	5127.7	3103.7	2087.9	2024.0	2035.3	2046.6	2061.6	2069.1
7911.6	22.5°	7591.8	7050.1	4838.0	2550.7	1971.3	1967.5	1971.3	1982.6	2001.4	2001.4
8227.6	25°	7885.2	7241.9	4506.9	2148.1	1911.1	1911.1	1918.6	1926.2	1941.2	1941.2
8532.3	27.5°	8186.2	7418.7	4157.1	1937.5	1858.4	1854.7	1854.7	1866.0	1873.5	1877.3
8833.3	30°	8517.3	7625.7	3807.2	1892.3	1817.1	1798.3	1787.0	1794.5	1802.0	1805.8
9149.3	32.5°	8855.8	7825.0	3494.9	1911.1	1775.7	1741.8	1704.2	1696.7	1696.7	1711.7
9476.6	35°	9232.0	8043.2	3254.2	1975.1	1753.1	1659.1	1598.9	1565.0	1568.8	1591.3
9867.8	37.5°	9683.5	8306.6	3077.3	2031.5	1738.1	1565.0	1467.2	1425.8	1399.5	1425.8
10405.8	40°	10274.1	8694.1	2949.4	2076.6	1719.3	1455.9	1324.2	1256.5	1207.6	1222.7
11241.0	42.5°	11143.2	9303.5	2900.5	2080.4	1677.9	1328.0	1177.5	1087.2	1015.8	1019.5
12497.5	45°	12362.1	10266.6	3152.6	2031.5	1587.6	1188.8	1023.3	902.9	857.7	846.5
14374.8	47.5°	14032.4	11669.8	3735.7	1929.9	1455.9	1053.4	872.8	771.2	737.4	718.5
16838.9	50°	16270.8	13471.9	4382.8	1817.1	1324.2	925.5	748.6	684.7	662.1	643.3
19762.0	52.5°	18866.6	15300.2	4913.2	1704.2	1192.6	812.6	669.6	632.0	613.2	598.2
22583.5	55°	21248.0	16560.5	4883.1	1583.8	1064.7	722.3	613.2	590.6	568.1	553.0
25013.8	57.5°	22730.2	16737.3	4025.4	1452.1	917.9	650.8	560.5	545.5	519.2	500.4
27116.8	60°	23411.2	15729.1	2821.5	1279.1	771.2	583.1	504.1	496.6	462.7	436.4
29106.9	62.5°	23535.3	13855.6	1881.0	1064.7	643.3	519.2	447.7	436.4	391.3	346.1
30724.6	65°	23031.2	11177.0	1301.7	831.4	549.3	451.4	383.7	361.2	312.2	267.1
31108.3	67.5°	21436.1	7847.6	906.7	598.2	466.5	357.4	304.7	297.2	259.6	222.0
29152.1	70°	18513.0	4473.1	605.7	447.7	368.7	244.5	240.8	248.3	210.7	180.6
23817.5	72.5°	14194.2	2046.6	376.2	327.3	252.1	165.5	191.9	195.6	161.8	135.4
14860.1	75°	8355.5	876.6	237.0	210.7	127.9	109.1	139.2	143.0	109.1	86.5
5432.4	77.5°	2844.1	331.1	150.5	124.1	64.0	60.2	90.3	90.3	60.2	33.9
1091.0	80°	647.1	124.1	75.2	48.9	30.1	26.3	30.1	26.3	15.0	3.8
334.8	82.5°	184.3	48.9	30.1	18.8	11.3	11.3	3.8	0.0	0.0	0.0
116.6	85°	52.7	22.6	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
41.4	87.5°	22.6	3.8	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>
6038.1
5515.2
4653.6
3585.2
2633.4
2268.5
2204.6
2140.6
2072.9
2008.9
1945.0
1881.0
1813.3
1723.0
1602.6
1418.3
1215.1
1004.5
831.4
707.3
639.5
594.4
545.5
496.6
428.9
323.5
252.1
210.7
165.5
120.4
75.2
26.3
0.0
0.0
0.0
0.0
0.0

F REPORT)