

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: P944829

Luminaire Tested: **GALN-SB9D-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63728 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

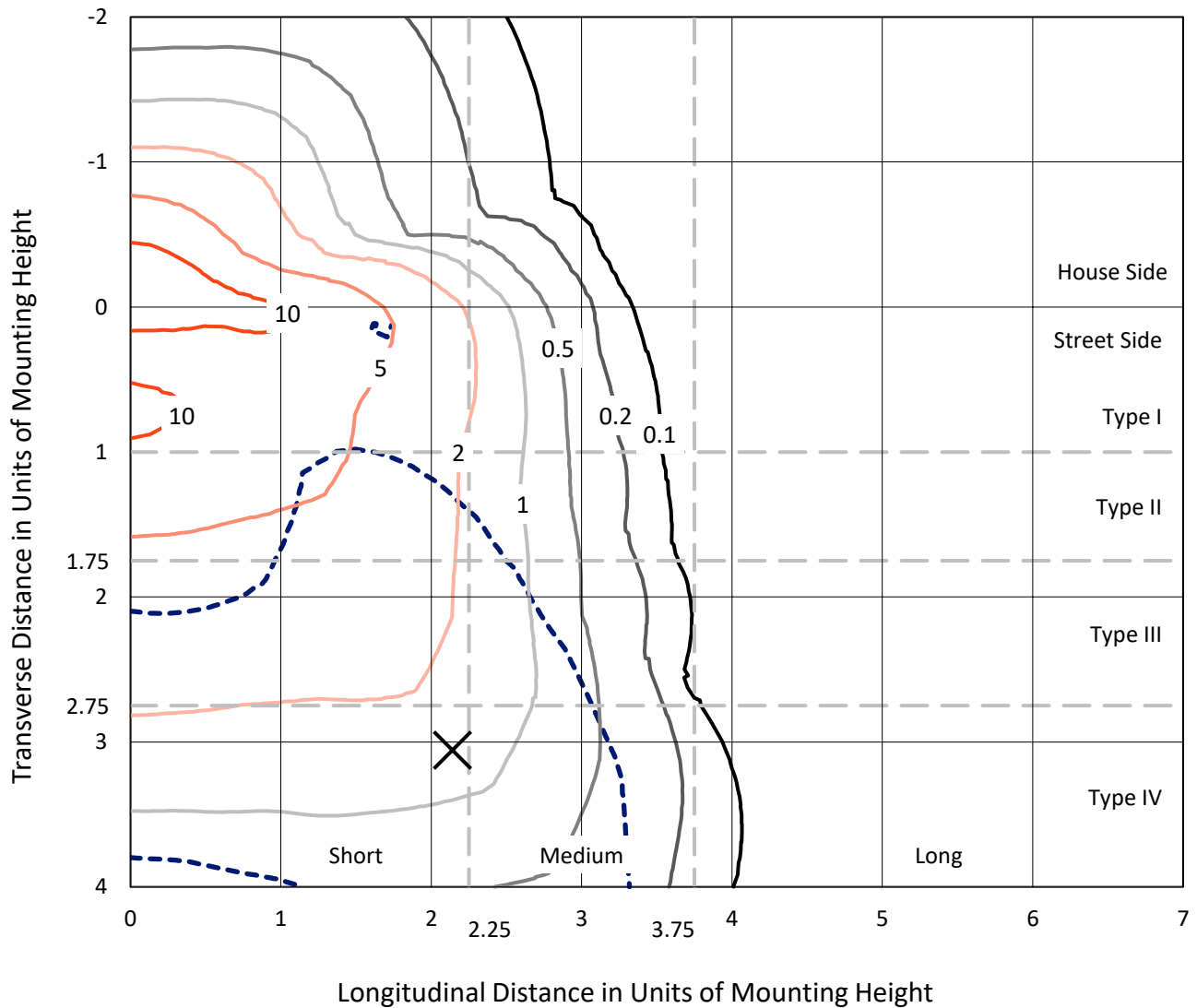
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944829
 CATALOG NUMBER: GALN-SB9D-950-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

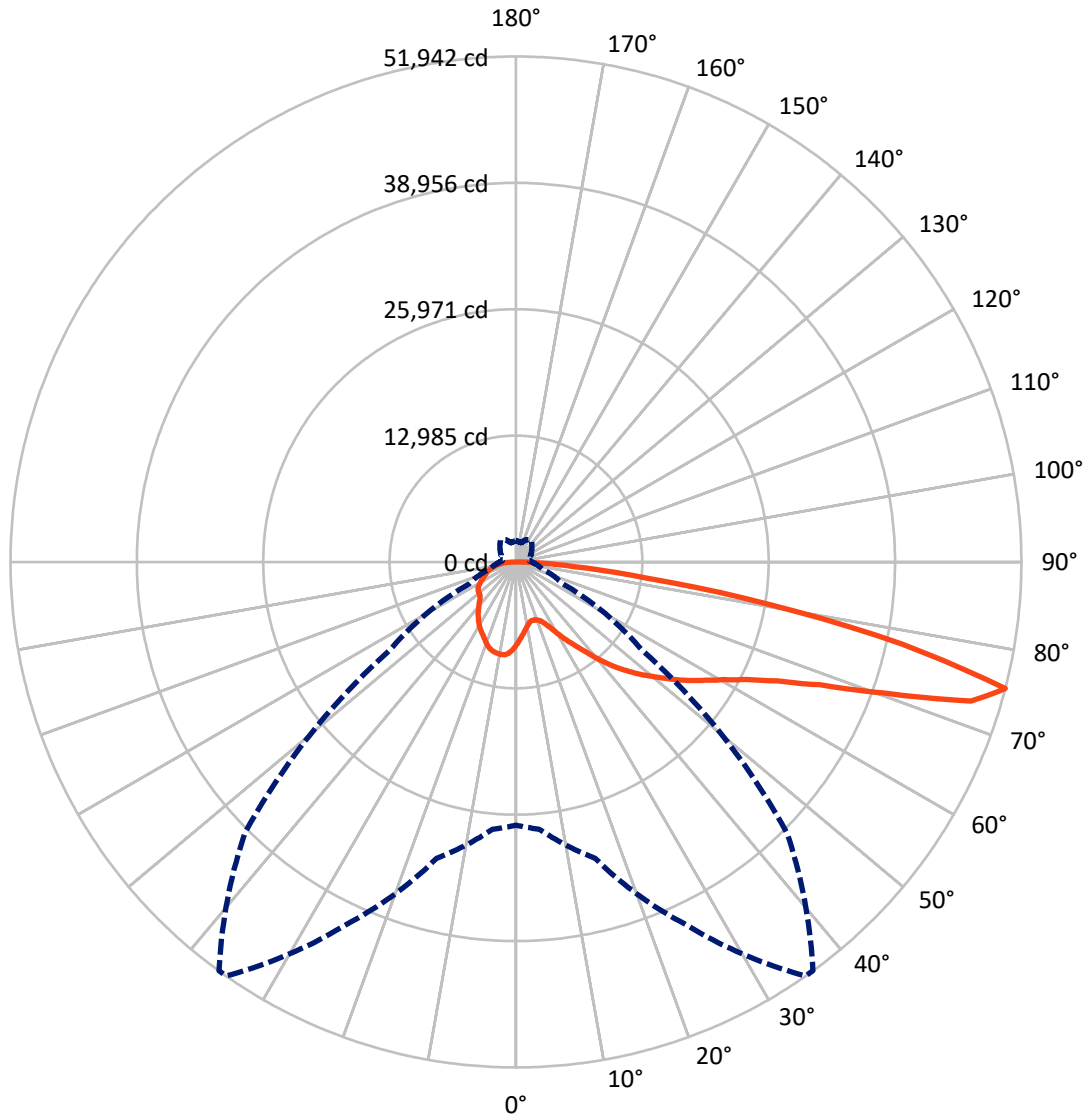
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - N/A

REPORT NUMBER: P944829
CATALOG NUMBER: GALN-SB9D-950-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P944829

CATALOG NUMBER: GALN-SB9D-950-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15165.7	0.0	15165.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	48562.3	0.0	48562.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	63728.0	0.0	63728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.0	1.3
10°-20°	2319.2	3.6
20°-30°	3894.5	6.1
30°-40°	6052.7	9.5
40°-50°	8983.8	14.1
50°-60°	12402.6	19.5
60°-70°	15047.2	23.6
70°-80°	12435.4	19.5
80°-90°	1788.6	2.8
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°	63728.0	100.0
0°-180°	63728.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944829

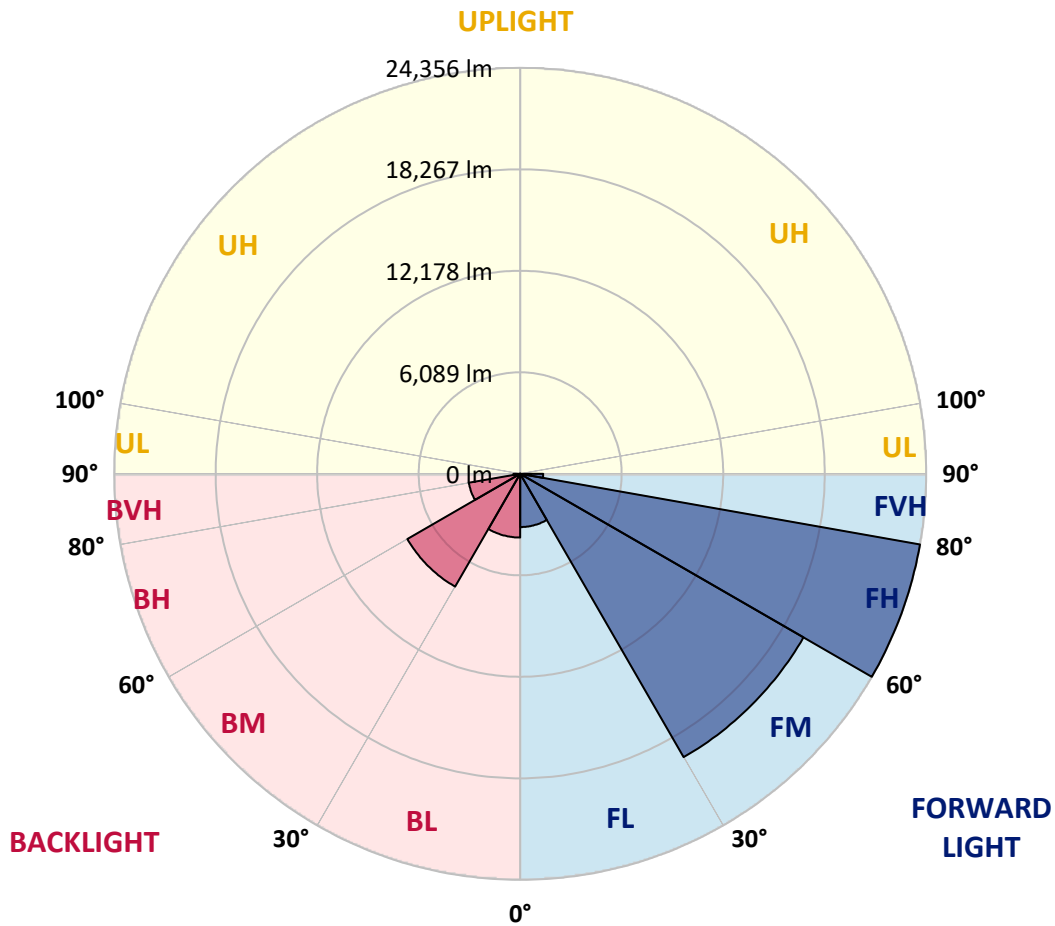
CATALOG NUMBER: GALN-SB9D-950-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3195.8	5.0			
FM (30°-60°)	19624.8	30.8			
FH (60°-80°)	24355.9	38.2			G5
FVH (80°-90°)	1385.8	2.2			G5
BL (0°-30°)	3822.0	6.0	B4/5000		
BM (30°-60°)	7814.3	12.3	B4/8500		
BH (60°-80°)	3126.7	4.9	B4/5000		G4/5000
BVH (80°-90°)	402.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P944829

CATALOG NUMBER: GALN-SB9D-950-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2
2.5°	7830.7	7879.0	7899.6	7889.3	7941.0	7934.1	8006.4	8096.0	8220.0	8340.6
5°	7227.8	7279.5	7324.3	7365.6	7465.5	7496.6	7610.2	7782.5	8009.9	8240.7
7.5°	6666.3	6711.1	6780.0	6855.8	7024.6	7055.6	7245.1	7513.8	7830.7	8168.3
10°	6208.1	6252.9	6325.2	6411.3	6621.5	6659.4	6900.5	7258.8	7672.3	8099.4
12.5°	6011.7	6025.5	6066.8	6153.0	6335.6	6359.7	6624.9	7034.9	7517.2	8047.8
15°	6001.4	6028.9	6032.4	6077.2	6228.8	6239.1	6483.7	6890.2	7420.8	8037.4
17.5°	6104.7	6125.4	6094.4	6122.0	6249.4	6266.6	6459.6	6821.3	7389.8	8082.2
20°	6380.3	6397.6	6304.5	6266.6	6359.7	6373.4	6562.9	6866.1	7420.8	8175.2
22.5°	6966.0	6976.3	6749.0	6593.9	6600.8	6607.7	6773.1	7048.7	7541.3	8344.0
25°	7879.0	7872.1	7510.3	7210.6	7038.4	7000.5	7110.7	7345.0	7744.6	8568.0
27.5°	8946.9	8895.3	8533.5	8085.7	7710.1	7655.0	7630.9	7730.8	8034.0	8864.3
30°	10152.7	10104.5	9715.2	9129.5	8609.3	8519.7	8292.4	8240.7	8464.6	9267.3
32.5°	11475.6	11444.6	10979.6	10269.9	9574.0	9470.6	9088.2	8950.4	9126.1	9877.1
35°	12585.0	12557.4	12171.6	11441.2	10590.3	10462.8	10073.5	9918.5	10008.0	10659.2
37.5°	13587.5	13573.7	13243.0	12667.7	11789.2	11634.1	11196.6	11144.9	11127.7	11689.2
40°	14517.7	14483.2	14138.7	13835.5	13184.4	13043.2	12657.3	12612.5	12481.6	12957.0
42.5°	15547.8	15458.2	14958.7	14817.4	14641.7	14524.6	14293.7	14300.6	14011.2	14386.8
45°	16388.4	16336.7	15823.4	15740.7	15930.2	15881.9	16081.8	16133.4	15571.9	15885.4
47.5°	17291.0	17242.8	16808.7	16750.1	17263.4	17277.2	17983.5	18000.7	17094.6	17442.6
50°	18403.8	18334.9	17904.2	17976.6	18551.9	18603.6	19895.5	19778.4	18496.8	19023.9
52.5°	19137.6	19178.9	19085.9	19203.0	19988.5	20036.7	21776.5	21476.8	19885.2	20584.5
55°	19678.4	19761.1	20050.5	20319.2	21504.4	21552.6	23550.7	23092.5	21035.8	22031.5
57.5°	20374.4	20257.2	20798.1	21321.8	22944.4	23071.9	25276.7	24649.7	22055.6	23278.6
60°	21373.4	21290.8	21711.1	22486.2	24556.7	24760.0	27102.7	26051.9	22803.2	24267.3
62.5°	23399.2	23192.5	23257.9	23943.5	26589.3	26858.0	29162.8	27274.9	23175.2	24653.2
65°	26427.4	26072.6	25741.8	26217.3	29452.2	29717.5	31488.3	28236.1	23037.4	23905.6
67.5°	30241.1	29889.7	29483.2	29931.1	33669.0	33879.2	34358.0	28777.0	21952.2	21025.5
70°	33386.5	33255.6	33741.4	35584.5	40404.2	40411.1	38037.4	28329.1	18979.1	14907.0
72.5°	32969.7	32890.4	35450.1	41148.3	48892.9	48710.4	41520.4	24939.1	12784.8	6724.8
75°	27047.5	27560.9	31526.2	41048.4	51941.9	51917.8	39387.9	15854.4	5288.2	2787.1
77.5°	14503.9	15316.9	20467.4	30306.6	40548.9	41158.7	27691.8	5546.6	2270.3	1784.6
80°	4730.1	5439.8	8158.0	15430.6	26348.2	26234.5	11868.4	2177.3	1553.7	1264.4
82.5°	2008.5	2091.2	3644.9	7286.4	13522.0	13311.9	3779.3	1250.6	1092.1	864.7
85°	785.5	878.5	1608.9	3369.3	5856.7	5729.2	1364.3	620.1	699.4	565.0
87.5°	258.4	313.5	575.3	1154.1	1822.5	1757.0	334.2	213.6	303.2	258.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944829
 CATALOG NUMBER: GALN-SB9D-950-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8492.2	0°	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2	8492.2
8516.3	2.5°	8564.5	8619.7	8685.1	8781.6	8864.3	8933.2	9005.5	9050.3	9067.5	9119.2
8530.1	5°	8626.5	8747.1	8909.0	9067.5	9222.5	9315.6	9398.3	9439.6	9477.5	9505.0
8568.0	7.5°	8729.9	8884.9	9139.9	9346.6	9477.5	9553.3	9608.4	9594.6	9608.4	9615.3
8609.3	10°	8819.5	9036.5	9339.7	9536.1	9636.0	9639.4	9625.6	9577.4	9553.3	9556.7
8671.3	12.5°	8926.3	9167.4	9494.7	9660.1	9687.6	9611.8	9553.3	9470.6	9439.6	9425.8
8764.4	15°	9071.0	9346.6	9663.5	9725.5	9656.6	9560.2	9460.3	9325.9	9257.0	9201.9
8922.8	17.5°	9246.7	9549.8	9794.4	9749.7	9601.5	9443.0	9281.1	9077.9	8936.6	8878.0
9139.9	20°	9491.3	9763.4	9894.3	9698.0	9474.0	9232.9	8957.3	8709.2	8578.3	8519.7
9415.5	22.5°	9787.5	10049.4	9990.8	9608.4	9291.5	8905.6	8561.1	8378.5	8313.0	8271.7
9770.3	25°	10142.4	10366.3	10059.7	9477.5	8991.7	8471.5	8206.2	8147.7	8116.7	8085.7
10204.4	27.5°	10604.0	10724.6	10111.4	9284.6	8523.2	8009.9	7913.4	7923.7	7913.4	7861.7
10807.3	30°	11213.8	11189.7	10159.6	8971.1	7985.8	7593.0	7599.9	7644.7	7651.6	7617.1
11647.9	32.5°	12016.5	11771.9	10183.7	8564.5	7472.4	7227.8	7234.7	7283.0	7317.4	7258.8
12746.9	35°	12988.1	12450.6	10145.8	8054.7	7076.2	6879.9	6828.2	6842.0	6852.3	6797.2
14080.1	37.5°	14121.5	13212.0	9977.0	7489.7	6749.0	6538.8	6428.6	6335.6	6280.4	6228.8
15589.1	40°	15365.2	14042.3	9667.0	6938.4	6383.8	6177.1	6011.7	5836.0	5650.0	5581.1
17187.6	42.5°	16667.4	14896.6	9291.5	6411.3	5963.5	5794.7	5619.0	5364.0	5085.0	4943.7
18848.2	45°	18017.9	15771.7	8922.8	5891.1	5532.8	5460.5	5257.2	4950.6	4647.4	4468.3
20512.2	47.5°	19340.8	16598.5	8381.9	5367.5	5129.8	5209.0	5050.5	4768.0	4430.4	4147.9
22162.4	50°	20605.2	17373.7	7496.6	4836.9	4802.5	5133.2	4981.6	4575.1	4189.2	3827.5
23781.6	52.5°	21859.2	18000.7	6363.1	4354.6	4626.8	5112.5	4892.1	4444.2	3972.2	3593.2
25304.3	55°	22923.7	18324.5	5271.0	3941.2	4371.8	4936.8	4785.3	4289.2	3665.6	3262.5
26348.2	57.5°	23530.1	18062.7	4361.5	3534.7	4020.4	4647.4	4602.7	3958.4	3300.4	2990.4
26551.4	60°	23268.2	17001.6	3617.4	3179.8	3686.3	4333.9	4285.7	3631.1	3021.4	2728.5
25462.8	62.5°	21824.7	14979.3	3028.2	2869.8	3383.1	4013.5	3968.8	3379.6	2807.8	2525.3
22572.3	65°	18917.1	12185.3	2570.0	2611.4	3076.5	3627.7	3693.2	3169.5	2639.0	2363.3
17463.2	67.5°	14428.1	8826.4	2211.8	2387.5	2776.8	3248.7	3438.2	3017.9	2497.7	2235.9
10104.5	70°	8223.5	5012.6	1908.6	2170.4	2511.5	2897.3	3241.8	2897.3	2346.1	2129.1
3786.2	72.5°	3117.8	2301.3	1650.2	1953.4	2256.5	2601.1	3024.8	2707.9	2170.4	2008.5
1956.8	75°	1664.0	1402.2	1388.4	1698.4	1963.7	2311.7	2752.6	2521.8	2039.5	2122.2
1353.9	77.5°	1133.4	992.2	1161.0	1453.8	1643.3	1991.3	2463.3	2239.3	1767.3	1760.4
937.1	80°	785.5	702.8	944.0	1171.3	1271.2	1674.3	2149.7	1922.4	1440.1	1343.6
578.8	82.5°	472.0	458.2	706.2	875.1	899.2	1291.9	1781.1	1612.3	1178.2	1026.6
344.5	85°	258.4	272.2	451.3	513.3	523.7	902.6	1395.3	1247.1	906.1	761.4
124.0	87.5°	72.3	93.0	165.4	203.3	251.5	468.5	830.3	740.7	454.8	316.9
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>
8492.2
9115.8
9511.9
9625.6
9563.6
9418.9
9219.1
8881.5
8512.9
8278.6
8085.7
7872.1
7634.4
7286.4
6835.1
6263.2
5612.1
4961.0
4454.5
4116.9
3796.5
3551.9
3228.1
2949.0
2687.2
2480.5
2318.6
2194.5
2101.5
1980.9
<i>2191.1</i>
1622.6
1285.0
1033.5
768.3
316.9
0.0

F REPORT)