

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: P943399

Luminaire Tested: **GALN-SB7D-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943399
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-SB7D-835-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66344 lumens
Efficiency: N/A
Efficacy: 129.4 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

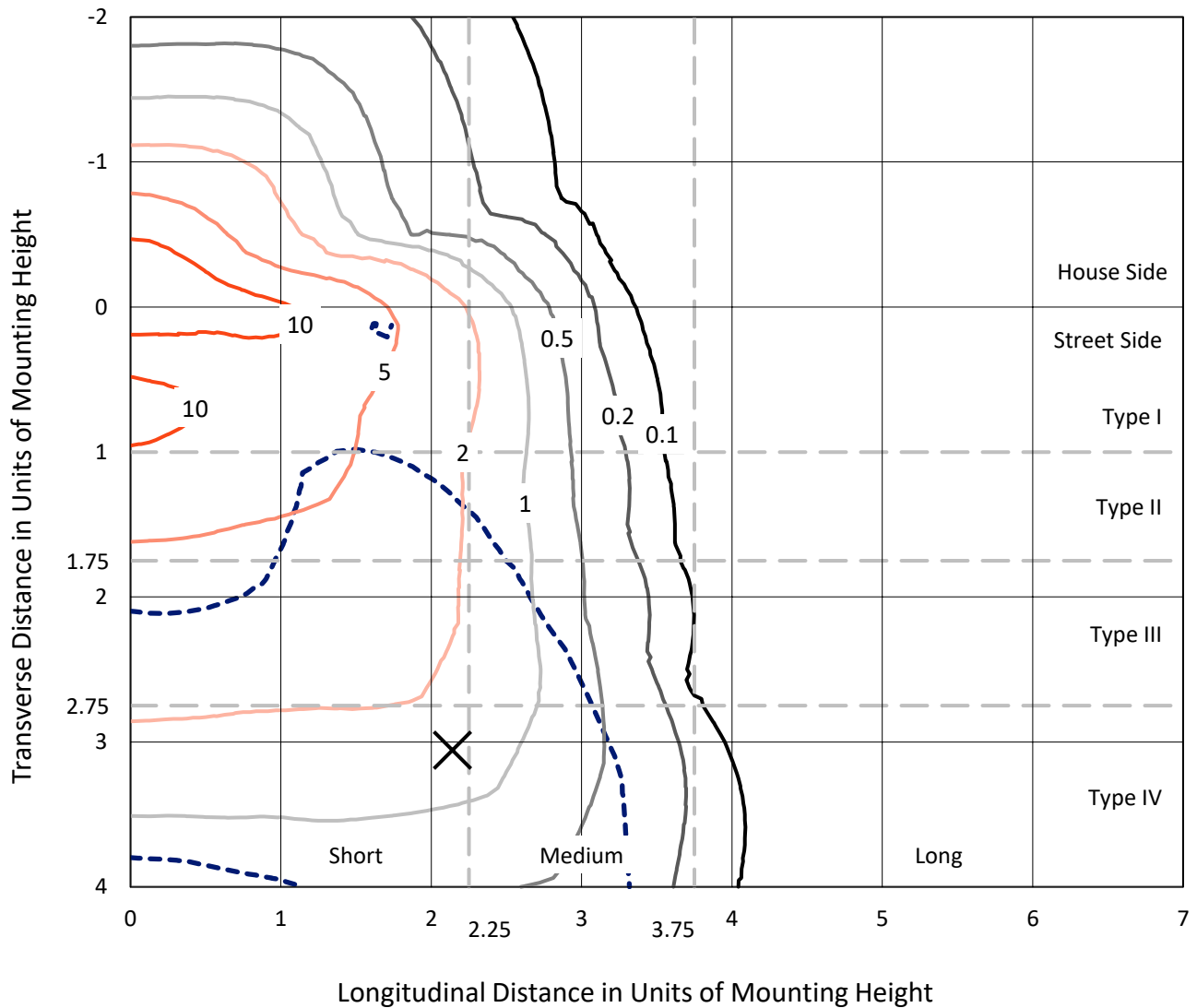
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943399
 CATALOG NUMBER: GALN-SB7D-835-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

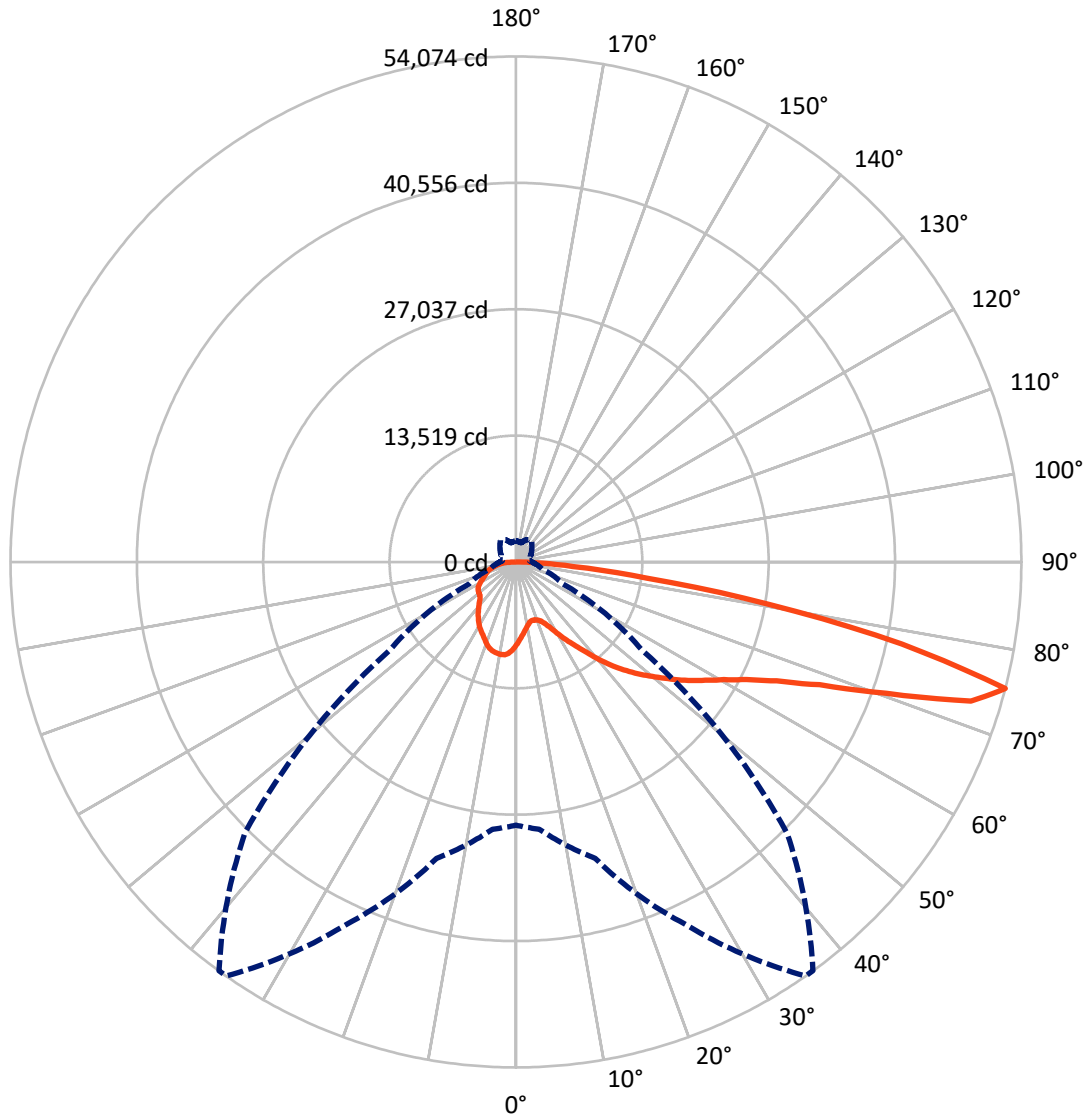
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P943399
CATALOG NUMBER: GALN-SB7D-835-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P943399
 CATALOG NUMBER: GALN-SB7D-835-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15788.2	0.0	15788.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	50555.8	0.0	50555.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	66344.0	0.0	66344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	837.0	1.3
10°-20°	2414.4	3.6
20°-30°	4054.4	6.1
30°-40°	6301.1	9.5
40°-50°	9352.5	14.1
50°-60°	12911.7	19.5
60°-70°	15664.9	23.6
70°-80°	12945.8	19.5
80°-90°	1862.0	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°	66344.0	100.0
0°-180°	66344.0	100.0

Coefficient of Utilization



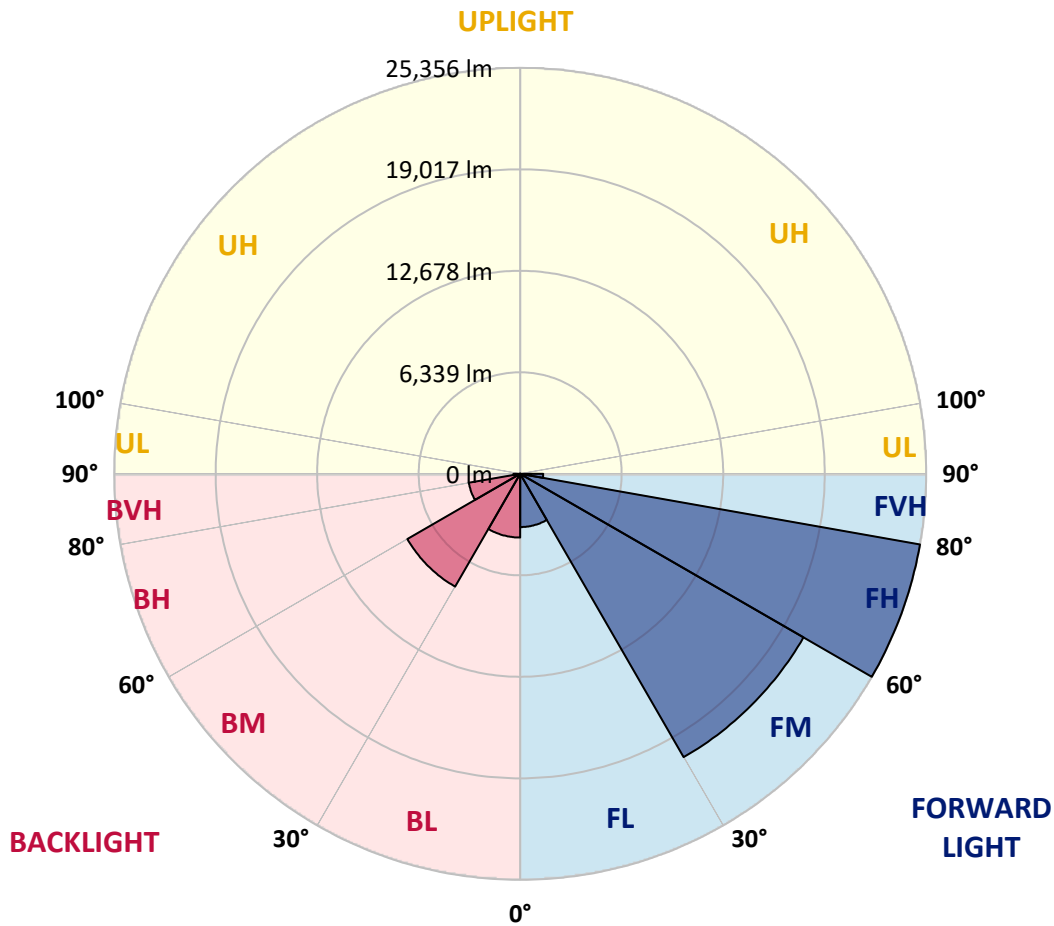
REPORT NUMBER: P943399
 CATALOG NUMBER: GALN-SB7D-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3327.0	5.0			
FM (30°-60°)	20430.4	30.8			
FH (60°-80°)	25355.7	38.2			G5
FVH (80°-90°)	1442.7	2.2			G5
BL (0°-30°)	3978.8	6.0	B4/5000		
BM (30°-60°)	8135.0	12.3	B4/8500		
BH (60°-80°)	3255.0	4.9	B4/5000		G4/5000
BVH (80°-90°)	419.3	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: P943399

CATALOG NUMBER: GALN-SB7D-835-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8
2.5°	8152.2	8202.4	8223.9	8213.1	8266.9	8259.8	8335.1	8428.3	8557.5	8683.0
5°	7524.5	7578.3	7625.0	7668.0	7772.0	7804.3	7922.6	8102.0	8338.7	8579.0
7.5°	6939.9	6986.6	7058.3	7137.2	7312.9	7345.2	7542.5	7822.2	8152.2	8503.7
10°	6462.9	6509.5	6584.9	6674.5	6893.3	6932.8	7183.8	7556.8	7987.2	8431.9
12.5°	6258.5	6272.8	6315.9	6405.5	6595.6	6620.7	6896.9	7323.7	7825.8	8378.1
15°	6247.7	6276.4	6280.0	6326.6	6484.4	6495.2	6749.8	7173.1	7725.4	8367.4
17.5°	6355.3	6376.8	6344.6	6373.3	6506.0	6523.9	6724.7	7101.3	7693.1	8414.0
20°	6642.2	6660.2	6563.3	6523.9	6620.7	6635.1	6832.3	7147.9	7725.4	8510.8
22.5°	7252.0	7262.7	7026.0	6864.6	6871.8	6879.0	7051.1	7338.0	7850.9	8686.6
25°	8202.4	8195.2	7818.6	7506.6	7327.3	7287.8	7402.6	7646.5	8062.5	8919.7
27.5°	9314.2	9260.4	8883.8	8417.6	8026.6	7969.3	7944.2	8048.2	8363.8	9228.1
30°	10569.5	10519.3	10114.0	9504.3	8962.7	8869.5	8632.8	8579.0	8812.1	9647.8
32.5°	11946.7	11914.4	11430.3	10691.4	9967.0	9859.4	9461.3	9317.8	9500.7	10282.6
35°	13101.6	13072.9	12671.2	11910.9	11025.0	10892.3	10487.0	10325.6	10418.9	11096.7
37.5°	14145.3	14130.9	13786.6	13187.7	12273.1	12111.7	11656.2	11602.4	11584.5	12169.1
40°	15113.6	15077.8	14719.1	14403.5	13725.6	13578.6	13176.9	13130.3	12994.0	13488.9
42.5°	16186.0	16092.7	15572.7	15425.6	15242.7	15120.8	14880.5	14887.7	14586.4	14977.3
45°	17061.1	17007.3	16472.9	16386.8	16584.1	16533.9	16741.9	16795.7	16211.1	16537.5
47.5°	18000.8	17950.6	17498.7	17437.7	17972.1	17986.4	18721.7	18739.6	17796.3	18158.6
50°	19159.2	19087.5	18639.2	18714.5	19313.4	19367.2	20712.2	20590.2	19256.1	19804.8
52.5°	19923.2	19966.2	19869.4	19991.3	20809.0	20859.2	22670.4	22358.4	20701.4	21429.5
55°	20486.2	20572.3	20873.6	21153.3	22387.1	22437.3	24517.5	24040.5	21899.3	22935.8
57.5°	21210.7	21088.8	21651.9	22197.0	23886.3	24019.0	26314.3	25661.6	22960.9	24234.2
60°	22250.8	22164.7	22602.3	23409.3	25564.8	25776.4	28215.2	27121.3	23739.2	25263.5
62.5°	24359.7	24144.5	24212.6	24926.4	27680.8	27960.6	30359.9	28394.5	24126.6	25665.2
65°	27512.2	27142.8	26798.5	27293.5	30661.2	30937.4	32780.8	29395.2	23983.1	24886.9
67.5°	31482.5	31116.7	30693.5	31159.7	35051.1	35269.9	35768.4	29958.3	22853.3	21888.6
70°	34757.0	34620.7	35126.4	37045.2	42062.8	42070.0	39598.8	29492.0	19758.2	15518.9
72.5°	34323.1	34240.6	36905.4	42837.5	50900.0	50709.9	43224.8	25962.9	13309.6	7000.9
75°	28157.8	28692.2	32820.3	42733.5	54074.1	54048.9	41004.8	16505.2	5505.3	2901.5
77.5°	15099.3	15945.7	21307.6	31550.7	42213.4	42848.2	28828.5	5774.3	2363.5	1857.8
80°	4924.3	5663.1	8492.9	16064.1	27429.8	27311.4	12355.6	2266.7	1617.5	1316.3
82.5°	2090.9	2177.0	3794.5	7585.5	14077.1	13858.3	3934.4	1301.9	1136.9	900.2
85°	817.7	914.6	1674.9	3507.6	6097.1	5964.4	1420.3	645.6	728.1	588.2
87.5°	269.0	326.4	598.9	1201.5	1897.3	1829.1	347.9	222.4	315.6	269.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943399
 CATALOG NUMBER: GALN-SB7D-835-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8840.8	0°	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8	8840.8
8865.9	2.5°	8916.1	8973.5	9041.6	9142.1	9228.1	9299.9	9375.2	9421.8	9439.7	9493.5
8880.2	5°	8980.7	9106.2	9274.8	9439.7	9601.1	9698.0	9784.0	9827.1	9866.5	9895.2
8919.7	7.5°	9088.3	9249.7	9515.1	9730.2	9866.5	9945.4	10002.8	9988.5	10002.8	10010.0
8962.7	10°	9181.5	9407.5	9723.1	9927.5	10031.5	10035.1	10020.8	9970.5	9945.4	9949.0
9027.3	12.5°	9292.7	9543.7	9884.5	10056.6	10085.3	10006.4	9945.4	9859.4	9827.1	9812.7
9124.1	15°	9443.3	9730.2	10060.2	10124.8	10053.0	9952.6	9848.6	9708.7	9637.0	9579.6
9289.1	17.5°	9626.2	9941.9	10196.5	10149.9	9995.6	9830.7	9662.1	9450.5	9303.4	9242.5
9515.1	20°	9880.9	10164.2	10300.5	10096.1	9862.9	9611.9	9325.0	9066.7	8930.4	8869.5
9802.0	22.5°	10189.3	10461.9	10400.9	10002.8	9672.9	9271.2	8912.5	8722.4	8654.3	8611.2
10171.4	25°	10558.7	10791.9	10472.7	9866.5	9360.8	8819.3	8543.1	8482.1	8449.9	8417.6
10623.3	27.5°	11039.3	11164.9	10526.5	9665.7	8873.1	8338.7	8238.3	8249.0	8238.3	8184.5
11250.9	30°	11674.1	11649.0	10576.7	9339.3	8313.6	7904.7	7911.9	7958.5	7965.7	7929.8
12126.0	32.5°	12509.8	12255.2	10601.8	8916.1	7779.2	7524.5	7531.7	7581.9	7617.8	7556.8
13270.1	35°	13521.2	12961.7	10562.3	8385.3	7366.7	7162.3	7108.5	7122.8	7133.6	7076.2
14658.1	37.5°	14701.2	13754.3	10386.6	7797.1	7026.0	6807.2	6692.5	6595.6	6538.2	6484.4
16229.0	40°	15995.9	14618.7	10063.8	7223.3	6645.8	6430.6	6258.5	6075.6	5881.9	5810.2
17893.2	42.5°	17351.6	15508.1	9672.9	6674.5	6208.3	6032.5	5849.6	5584.2	5293.7	5146.7
19621.9	45°	18757.5	16419.1	9289.1	6133.0	5760.0	5684.6	5473.0	5153.8	4838.2	4651.7
21354.2	47.5°	20134.8	17279.9	8726.0	5587.8	5340.3	5422.8	5257.8	4963.8	4612.3	4318.2
23072.1	50°	21451.0	18086.9	7804.3	5035.5	4999.6	5343.9	5186.1	4762.9	4361.2	3984.6
24757.8	52.5°	22756.5	18739.6	6624.3	4533.4	4816.7	5322.4	5092.9	4626.6	4135.3	3740.7
26343.0	55°	23864.7	19076.7	5487.4	4103.0	4551.3	5139.5	4981.7	4465.2	3816.1	3396.4
27429.8	57.5°	24496.0	18804.2	4540.5	3679.8	4185.5	4838.2	4791.6	4120.9	3435.9	3113.1
27641.4	60°	24223.4	17699.5	3765.9	3310.4	3837.6	4511.8	4461.6	3780.2	3145.4	2840.5
26508.0	62.5°	22720.6	15594.2	3152.6	2987.6	3522.0	4178.3	4131.7	3518.4	2923.0	2628.9
23498.9	65°	19693.6	12685.5	2675.5	2718.6	3202.8	3776.6	3844.8	3299.6	2747.3	2460.4
18180.1	67.5°	15020.4	9188.7	2302.5	2485.5	2890.7	3382.1	3579.4	3141.8	2600.2	2327.7
10519.3	70°	8561.0	5218.4	1986.9	2259.5	2614.6	3016.3	3374.9	3016.3	2442.4	2216.5
3941.6	72.5°	3245.8	2395.8	1717.9	2033.6	2349.2	2707.8	3149.0	2819.0	2259.5	2090.9
2037.1	75°	1732.3	1459.7	1445.4	1768.2	2044.3	2406.6	2865.6	2625.3	2123.2	2209.3
1409.5	77.5°	1180.0	1032.9	1208.7	1513.5	1710.8	2073.0	2564.4	2331.2	1839.9	1832.7
975.5	80°	817.7	731.7	982.7	1219.4	1323.4	1743.1	2238.0	2001.3	1499.2	1398.7
602.5	82.5°	491.4	477.0	735.2	911.0	936.1	1344.9	1854.2	1678.5	1226.6	1068.8
358.7	85°	269.0	283.3	469.8	534.4	545.2	939.7	1452.5	1298.3	943.3	792.6
129.1	87.5°	75.3	96.8	172.2	211.6	261.8	487.8	864.4	771.1	473.4	330.0
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>
8840.8
9489.9
9902.4
10020.8
9956.2
9805.6
9597.5
9246.1
8862.3
8618.4
8417.6
8195.2
7947.7
7585.5
7115.7
6520.3
5842.5
5164.6
4637.4
4285.9
3952.4
3697.7
3360.6
3070.1
2797.5
2582.3
2413.7
2284.6
2187.8
2062.3
<i>2281.0</i>
1689.3
1337.8
1076.0
799.8
330.0
0.0

F REPORT)