

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: P955786

Luminaire Tested: **GALN-SB8C-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44269 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

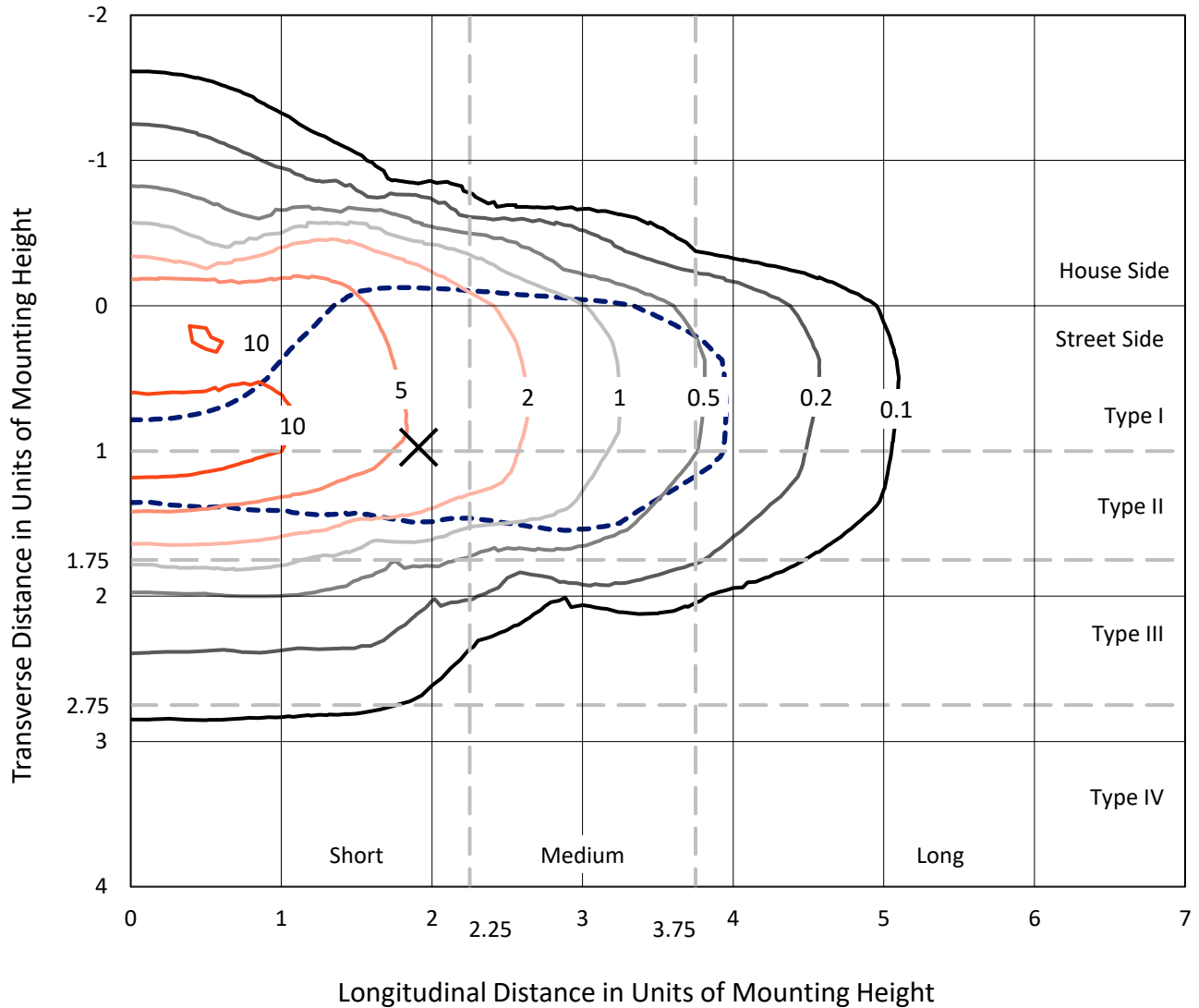
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955786
 CATALOG NUMBER: GALN-SB8C-850-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

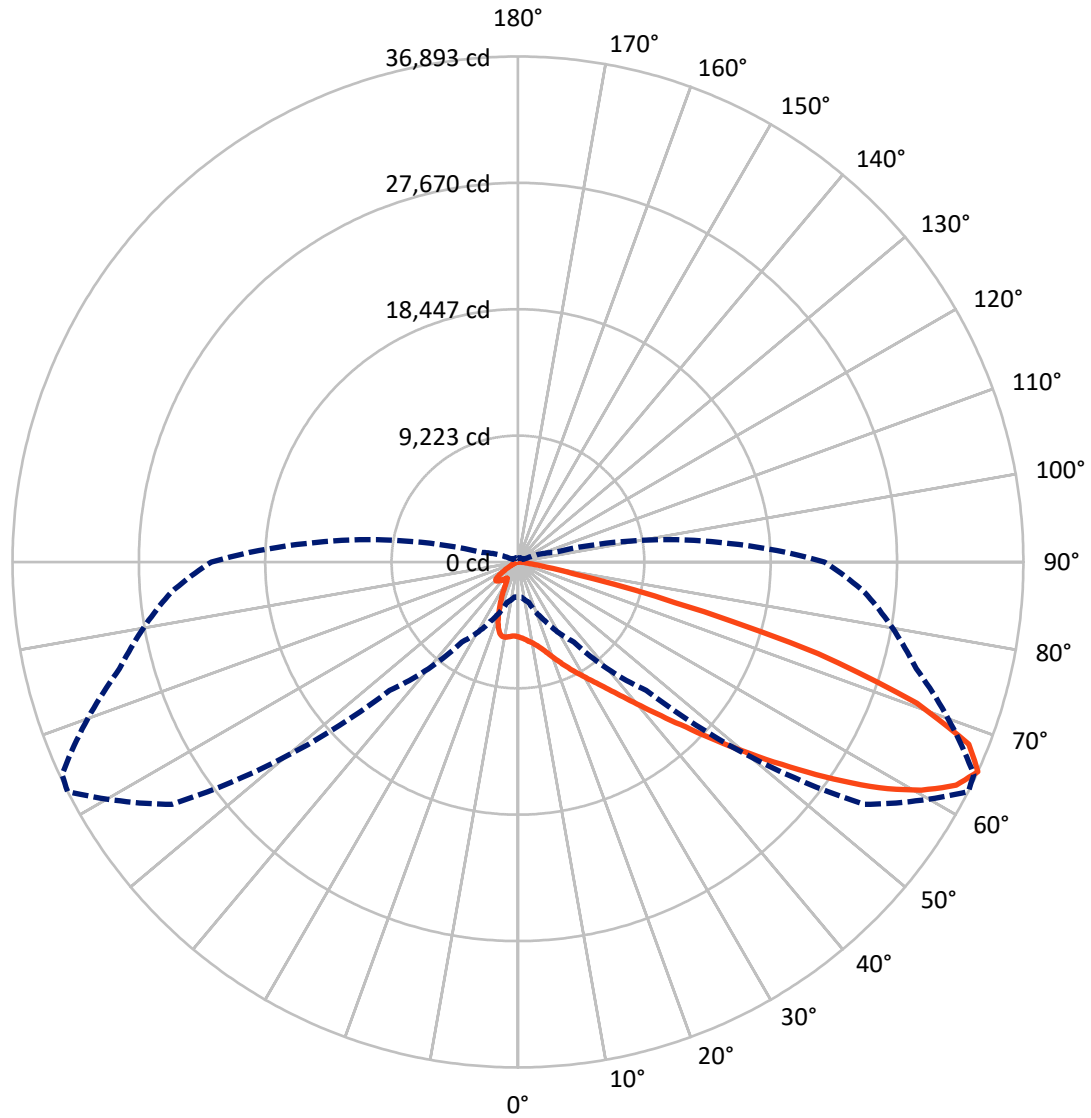
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P955786
CATALOG NUMBER: GALN-SB8C-850-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P955786
 CATALOG NUMBER: GALN-SB8C-850-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6507.2	0.0	6507.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	37761.8	0.0	37761.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	44269.0	0.0	44269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.8	1.2
10°-20°	1428.3	3.2
20°-30°	2487.1	5.6
30°-40°	4482.7	10.1
40°-50°	8890.6	20.1
50°-60°	12110.4	27.4
60°-70°	9666.5	21.8
70°-80°	4374.3	9.9
80°-90°	314.4	0.7
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°	44269.0	100.0
0°-180°	44269.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955786

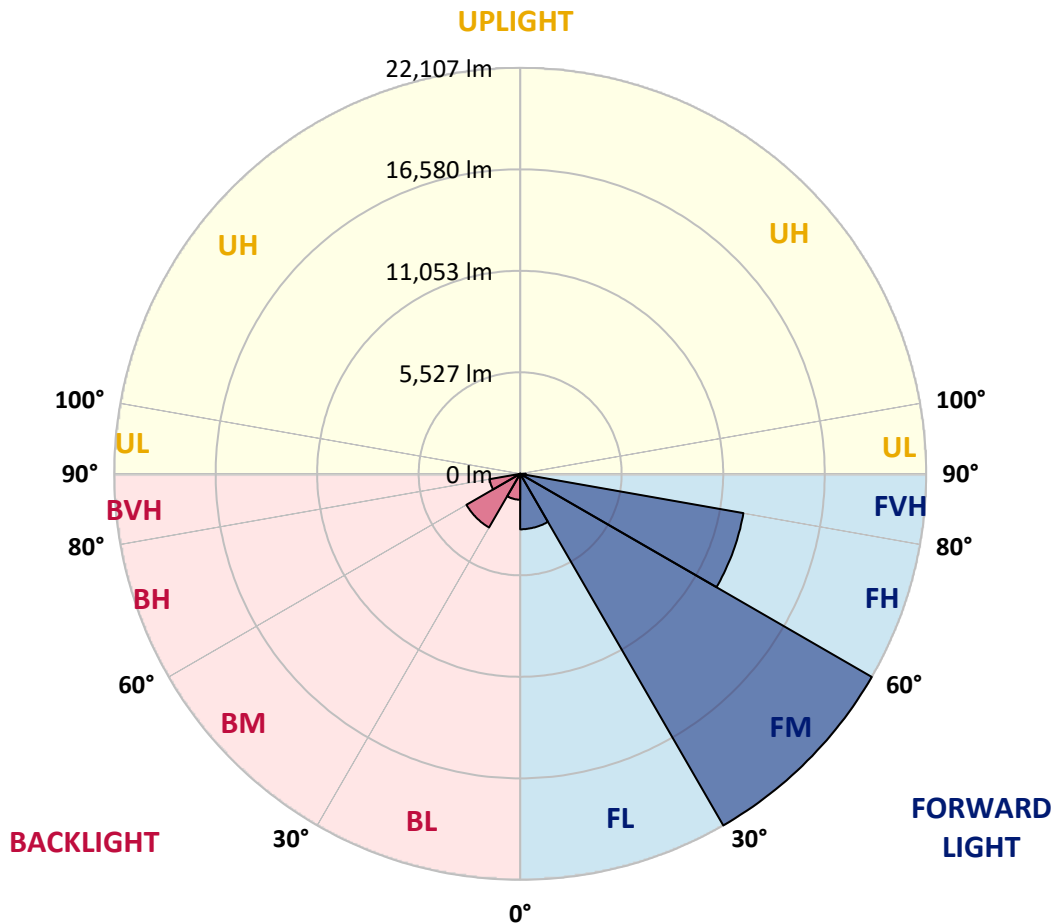
CATALOG NUMBER: GALN-SB8C-850-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3021.9	6.8			
FM (30°-60°)	22106.8	49.9			
FH (60°-80°)	12342.0	27.9			G5
FVH (80°-90°)	291.1	0.7			G3/500
BL (0°-30°)	1408.3	3.2	B3/2500		
BM (30°-60°)	3376.8	7.6	B3/5000		
BH (60°-80°)	1698.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	23.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



REPORT NUMBER: P955786
 CATALOG NUMBER: GALN-SB8C-850-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6
2.5°	5591.5	5576.3	5597.6	5588.5	5582.4	5570.2	5564.1	5558.0	5545.9	5536.7
5°	5606.8	5597.6	5619.0	5637.2	5655.5	5673.8	5682.9	5695.1	5682.9	5658.5
7.5°	5478.9	5472.8	5518.5	5573.3	5655.5	5725.5	5801.7	5844.3	5847.4	5838.2
10°	5469.7	5454.5	5500.2	5567.2	5673.8	5798.6	5932.6	6024.0	6036.2	6075.8
12.5°	5612.9	5597.6	5661.6	5734.7	5844.3	5975.3	6139.7	6267.6	6285.9	6340.7
15°	5853.5	5832.1	5905.2	5999.6	6139.7	6289.0	6462.6	6578.3	6593.5	6660.5
17.5°	6133.6	6112.3	6197.6	6298.1	6450.4	6654.4	6855.4	6983.3	7001.6	7044.2
20°	6493.0	6465.6	6532.6	6624.0	6785.4	7029.0	7269.6	7452.3	7449.3	7449.3
22.5°	6910.2	6867.6	6925.5	6998.6	7150.8	7446.3	7766.0	7982.3	7982.3	7897.0
25°	7357.9	7315.3	7379.3	7446.3	7580.3	7915.3	8289.9	8557.9	8570.0	8423.9
27.5°	7918.3	7863.5	7912.2	7991.4	8070.6	8411.7	8856.3	9167.0	9173.1	8947.7
30°	8996.4	8841.1	8688.8	8603.5	8640.1	8978.1	9453.2	9797.4	9827.8	9517.2
32.5°	10969.9	10939.4	10403.4	9703.0	9337.5	9587.2	10120.2	10534.4	10552.7	10153.7
35°	14036.7	14000.2	13138.3	11804.4	10613.6	10403.4	10930.3	11420.6	11408.5	10957.7
37.5°	17697.4	17663.9	16527.9	14743.3	12815.5	11636.9	11974.9	12489.6	12565.7	11974.9
40°	20825.1	20700.3	19981.5	18260.8	15739.2	13683.4	13461.1	13802.2	13881.4	13180.9
42.5°	23194.5	23088.0	22722.5	21647.4	19278.0	16710.7	15212.3	15343.2	15431.6	14591.0
45°	24421.9	24397.5	24543.7	24443.2	22883.9	20426.2	17715.7	17170.5	17204.0	16153.3
47.5°	24595.5	24583.3	25250.3	26194.4	25984.2	24616.8	20928.7	19448.6	19329.8	17916.7
50°	23572.2	23547.8	24826.9	26596.4	28055.2	28137.4	24577.2	22015.9	21754.0	19740.9
52.5°	20304.4	20298.3	22399.7	25344.7	28783.0	31219.4	28183.1	24836.1	24397.5	21671.8
55°	15623.4	15736.1	18145.1	21626.1	27455.2	32702.6	31420.4	27966.8	27293.8	23614.8
57.5°	11067.4	11231.8	13613.4	16713.7	23337.7	31825.5	33610.2	31103.7	30378.9	25551.8
60°	5944.8	6091.0	8475.6	12175.9	17362.4	28554.6	34764.4	33826.4	33141.2	27391.2
62.5°	3541.9	3590.6	4577.4	7860.4	11743.5	21814.9	34274.1	35900.4	35337.0	28935.3
65°	2543.0	2552.1	3048.5	4799.7	7129.5	13254.0	30835.7	36893.2	36719.6	30098.7
67.5°	2141.0	2134.9	2342.0	3188.6	4857.6	6639.2	23633.1	35489.2	36226.2	30835.7
70°	1836.4	1845.6	2089.2	2335.9	3651.6	3758.1	11749.5	30899.7	32471.1	31030.6
72.5°	1367.4	1397.9	1623.3	2128.8	2756.2	2585.6	4056.6	22911.3	25752.8	29236.8
75°	965.4	980.7	1142.1	1790.8	2055.7	1882.1	2070.9	11844.0	15486.4	22414.9
77.5°	743.1	770.5	864.9	1251.7	2025.3	1321.7	1266.9	4099.2	6298.1	13540.3
80°	402.0	450.7	624.3	904.5	1422.2	935.0	627.4	1632.4	2134.9	6331.6
82.5°	207.1	231.5	435.5	651.7	810.1	816.2	310.6	679.1	880.2	1955.2
85°	82.2	100.5	292.4	359.4	417.2	402.0	140.1	274.1	316.7	542.1
87.5°	18.3	30.5	106.6	82.2	79.2	85.3	33.5	64.0	60.9	64.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955786
 CATALOG NUMBER: GALN-SB8C-850-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5463.6	0°	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6	5463.6
5500.2	2.5°	5497.1	5484.9	5451.4	5414.9	5372.3	5347.9	5332.7	5329.6	5308.3	5293.1
5622.0	5°	5588.5	5576.3	5512.4	5436.2	5354.0	5290.0	5229.1	5174.3	5095.1	5079.9
5798.6	7.5°	5771.2	5737.7	5634.2	5530.6	5375.3	5189.5	4964.2	4705.3	4473.8	4403.8
6033.1	10°	5996.6	5950.9	5820.0	5637.2	5293.1	4787.5	4242.4	3736.8	3334.8	3222.1
6310.3	12.5°	6252.4	6212.8	6039.2	5701.2	4948.9	4032.2	3197.8	2570.4	2180.6	2083.1
6605.7	15°	6557.0	6499.1	6258.5	5603.7	4333.7	3063.8	2195.8	1824.3	1684.2	1665.9
6943.7	17.5°	6879.8	6785.4	6453.4	5253.5	3505.4	2177.5	1696.3	1589.8	1528.8	1510.6
7284.8	20°	7175.2	7053.4	6569.1	4723.6	2619.1	1696.3	1519.7	1449.7	1394.8	1373.5
7625.9	22.5°	7470.6	7297.0	6569.1	4001.8	1964.3	1504.5	1394.8	1330.9	1266.9	1239.5
7991.4	25°	7778.2	7546.8	6453.4	3197.8	1580.6	1379.6	1276.1	1206.0	1151.2	1117.7
8338.6	27.5°	8076.7	7756.9	6188.5	2436.4	1407.0	1270.0	1166.4	1099.4	1047.7	1023.3
8716.2	30°	8359.9	7964.0	5816.9	1848.6	1294.3	1163.4	1065.9	1008.1	956.3	931.9
9206.6	32.5°	8743.6	8225.9	5421.0	1516.7	1196.9	1062.9	974.6	919.7	874.1	855.8
9843.1	35°	9276.6	8612.7	5079.9	1489.3	1114.7	980.7	892.3	840.6	794.9	779.6
10665.3	37.5°	10031.9	9237.0	4900.2	1672.0	1047.7	907.6	825.3	770.5	727.9	715.7
11710.0	40°	10963.8	10083.7	4997.7	1854.7	1002.0	843.6	764.4	709.6	673.1	657.8
12909.9	42.5°	12069.3	11128.3	5536.7	1994.8	971.5	788.8	706.6	645.6	621.3	615.2
14271.2	45°	13339.3	12276.4	6362.1	2144.0	922.8	737.0	648.7	603.0	584.7	581.7
15751.3	47.5°	14782.9	13537.3	7318.3	2329.8	874.1	688.3	603.0	572.6	557.3	551.2
17295.4	50°	16214.3	14807.2	8302.0	2433.4	834.5	642.6	566.5	542.1	529.9	526.9
18927.8	52.5°	17712.6	16113.8	9096.9	2335.9	801.0	606.1	536.0	517.7	505.6	502.5
20432.3	55°	19141.0	17170.5	9234.0	1982.6	734.0	569.5	502.5	493.4	478.1	478.1
21958.1	57.5°	20371.4	17700.5	8265.5	1455.8	667.0	514.7	469.0	459.9	447.7	444.6
23334.6	60°	21501.2	17548.2	6380.3	980.7	593.9	459.9	426.4	420.3	408.1	392.9
24531.5	62.5°	22137.8	16878.2	4364.2	639.6	520.8	402.0	377.6	374.6	347.2	316.7
25417.8	65°	22378.4	15501.6	2722.7	466.0	435.5	344.1	325.9	319.8	280.2	246.7
25920.3	67.5°	22168.2	13235.8	1373.5	368.5	344.1	286.3	268.0	268.0	240.6	210.1
25889.8	70°	21327.7	9922.2	578.6	295.4	265.0	219.3	219.3	231.5	204.0	170.5
24546.7	72.5°	19503.4	6675.7	307.6	225.4	198.0	155.3	179.7	188.8	161.4	127.9
20091.2	75°	15504.7	4071.8	213.2	167.5	124.9	109.6	137.0	143.1	109.6	85.3
13774.8	77.5°	10604.4	2338.9	143.1	106.6	79.2	64.0	94.4	88.3	57.9	39.6
5311.4	80°	4656.6	974.6	82.2	48.7	30.5	24.4	33.5	24.4	18.3	12.2
727.9	82.5°	545.1	228.4	30.5	18.3	12.2	6.1	3.0	0.0	0.0	0.0
222.3	85°	112.7	27.4	15.2	6.1	3.0	0.0	0.0	0.0	0.0	0.0
39.6	87.5°	21.3	6.1	3.0	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>
5463.6
5308.3
5073.8
4370.3
3179.5
2055.7
1647.6
1501.4
1361.3
1224.3
1105.5
1023.3
935.0
855.8
779.6
712.6
654.8
615.2
578.6
551.2
526.9
502.5
475.1
441.6
389.8
310.6
243.6
207.1
167.5
127.9
82.2
42.6
12.2
0.0
0.0
0.0
0.0

F REPORT)