

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: P951789

Luminaire Tested: **GALN-SB5D-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

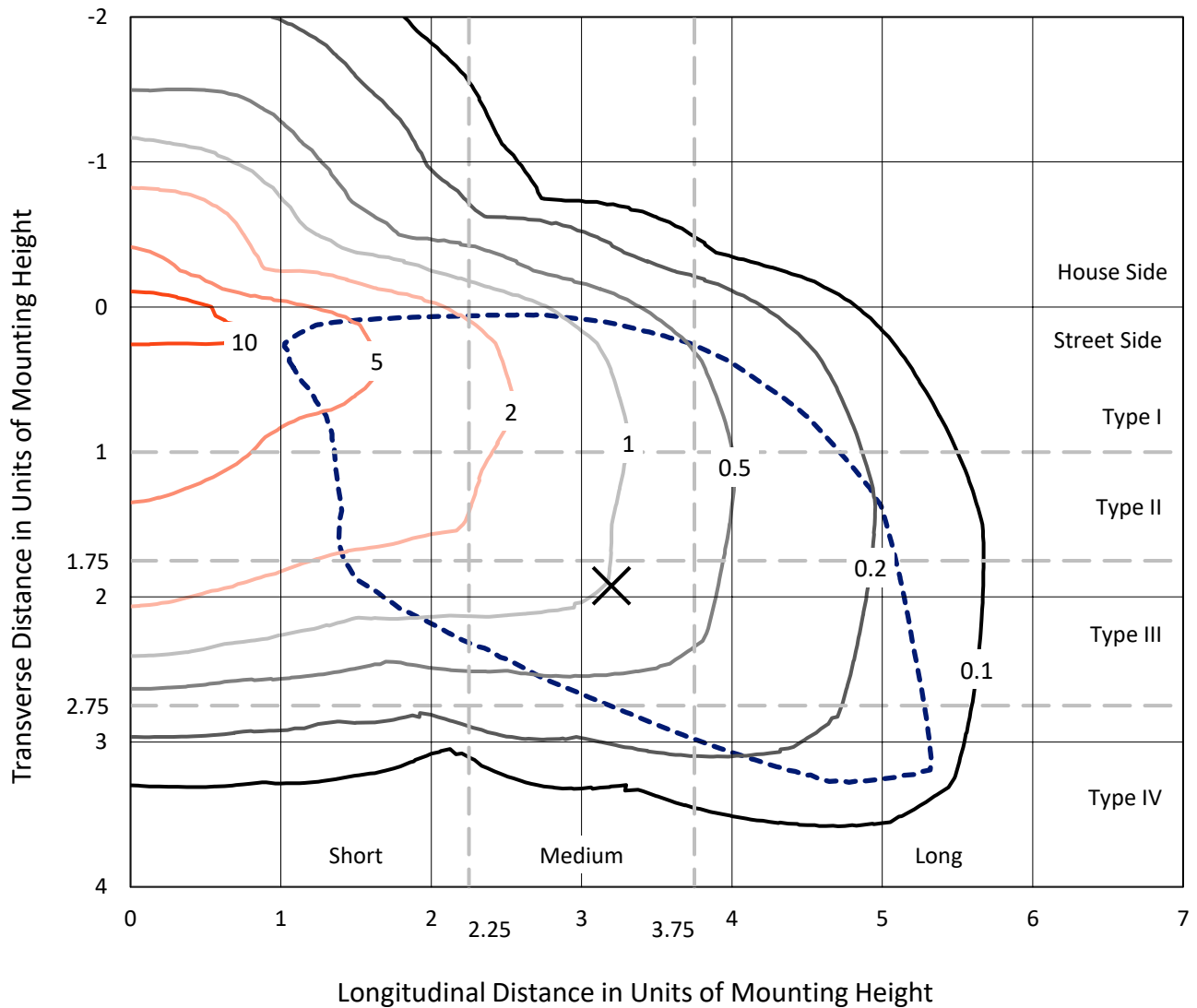
Lumens per Lamp: N/A  
Luminaire Lumens: 45142 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P951789  
 CATALOG NUMBER: GALN-SB5D-830-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

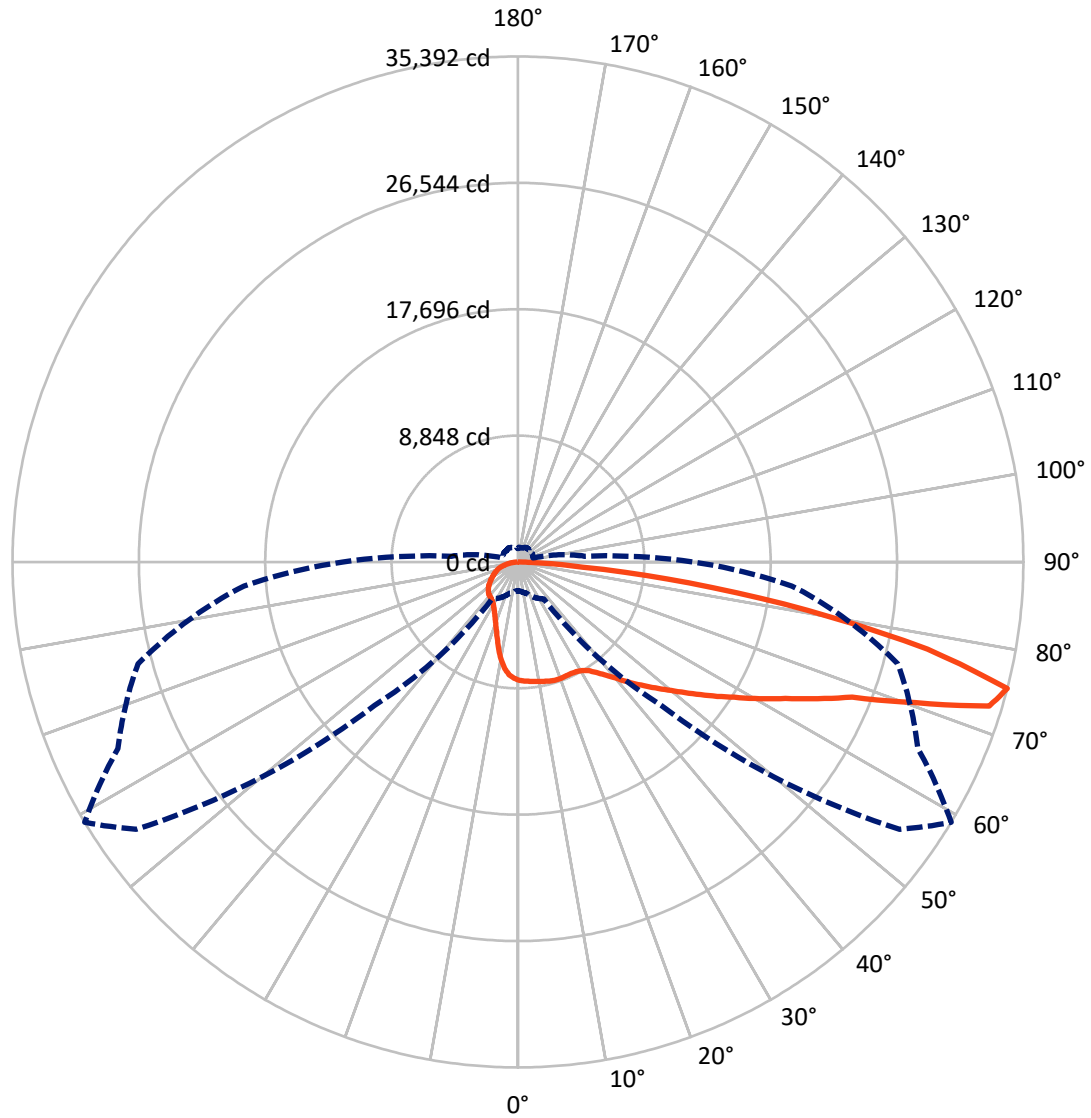
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P951789  
CATALOG NUMBER: GALN-SB5D-830-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P951789  
 CATALOG NUMBER: GALN-SB5D-830-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8466.7	0.0	8466.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	36675.3	0.0	36675.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	45142.0	0.0	45142.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	742.9	1.6
10°-20°	1899.0	4.2
20°-30°	2884.5	6.4
30°-40°	4287.7	9.5
40°-50°	6376.5	14.1
50°-60°	8655.4	19.2
60°-70°	10566.8	23.4
70°-80°	8292.7	18.4
80°-90°	1436.5	3.2
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°	45142.0	100.0
0°-180°	45142.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951789

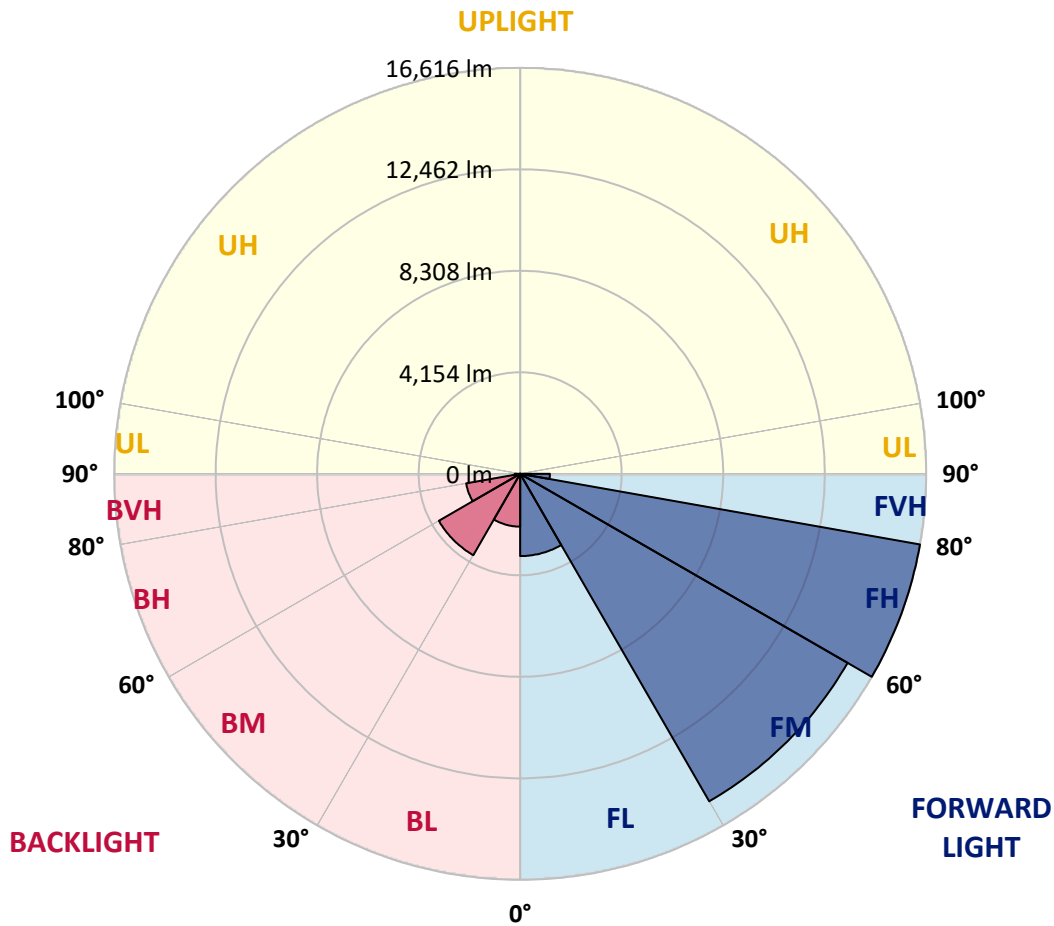
CATALOG NUMBER: GALN-SB5D-830-U-SL3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3365.8	7.5			
FM (30°-60°)	15476.6	34.3			
FH (60°-80°)	16616.3	36.8			G5
FVH (80°-90°)	1216.6	2.7			G5
BL (0°-30°)	2160.6	4.8	B3/2500		
BM (30°-60°)	3843.0	8.5	B3/5000		
BH (60°-80°)	2243.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	219.9	0.5			G2/225
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 Medium



REPORT NUMBER: P951789  
 CATALOG NUMBER: GALN-SB5D-830-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7
2.5°	8356.1	8327.0	8356.1	8344.0	8339.1	8329.4	8331.9	8348.9	8339.1	8351.3
5°	8300.3	8283.3	8312.4	8305.1	8336.7	8341.6	8373.1	8392.6	8404.7	8407.1
7.5°	8208.0	8191.0	8232.3	8266.3	8334.3	8353.7	8419.3	8450.8	8467.8	8497.0
10°	7870.5	7863.2	7965.2	8093.9	8254.1	8353.7	8453.3	8506.7	8533.4	8611.1
12.5°	7273.1	7282.8	7416.3	7664.0	7984.6	8305.1	8492.1	8569.8	8611.1	8708.3
15°	6702.4	6700.0	6845.7	7110.4	7559.6	8091.4	8511.6	8645.1	8715.5	8858.8
17.5°	6372.1	6362.4	6464.4	6666.0	7083.7	7763.6	8463.0	8686.4	8837.0	9016.7
20°	6311.4	6292.0	6345.4	6445.0	6741.2	7404.2	8336.7	8686.4	8934.1	9167.2
22.5°	6532.4	6500.8	6479.0	6466.8	6598.0	7107.9	8193.4	8657.3	9077.4	9383.4
25°	6976.8	6928.2	6816.5	6707.3	6668.4	6974.4	8067.2	8650.0	9291.1	9674.8
27.5°	7695.6	7634.9	7409.1	7146.8	6911.2	7042.4	8011.3	8693.7	9526.6	9983.2
30°	8586.8	8521.3	8237.1	7834.0	7411.5	7294.9	8081.7	8822.4	9827.7	10393.6
32.5°	9385.8	9312.9	9070.1	8659.7	8089.0	7732.0	8305.1	9067.7	10301.3	10964.2
35°	10094.9	10009.9	9791.3	9412.5	8919.5	8346.4	8708.3	9502.3	10974.0	11891.9
37.5°	10789.4	10689.8	10451.8	10051.2	9706.3	9164.8	9264.4	10060.9	11867.6	13018.7
40°	11566.5	11423.2	11134.2	10738.4	10403.3	10124.0	9995.3	10745.7	12775.8	14276.6
42.5°	12319.3	12183.3	11838.5	11500.9	11080.8	11000.7	10842.8	11547.1	13769.0	15658.3
45°	13130.4	12967.7	12550.0	12122.6	11857.9	11583.5	11663.6	12348.4	14742.8	17066.8
47.5°	13890.5	13708.3	13215.4	12739.4	12593.7	12074.0	12416.4	13229.9	15755.5	18494.7
50°	14300.9	14121.2	13710.8	13280.9	13166.8	12678.7	13232.4	14198.9	16816.7	19917.8
52.5°	14643.3	14449.0	13912.3	13674.3	13640.3	13336.8	14237.7	15306.2	17877.9	21175.7
55°	15007.5	14791.4	14106.6	13892.9	14048.3	14075.0	15430.1	16561.7	18999.8	22402.0
57.5°	15427.6	15153.2	14293.6	14077.5	14446.6	14939.5	16799.7	17863.3	20102.3	23538.5
60°	15823.5	15546.6	14653.0	14371.3	14876.4	15942.5	18370.9	19439.4	21350.5	24551.2
62.5°	15901.2	15672.9	14939.5	14937.1	15459.2	17113.0	20231.0	21030.0	22440.9	25551.7
65°	14555.9	14412.6	13977.9	14915.3	16294.6	18798.3	22302.5	23065.0	23827.5	26425.9
67.5°	11078.4	11097.8	11066.2	12875.4	15619.5	21219.4	25301.5	25243.3	25539.5	27407.0
70°	5065.7	5179.8	5922.9	8888.0	12513.6	21498.7	30260.3	29505.1	27688.7	28677.0
72.5°	2736.8	2824.2	3127.8	4305.6	7523.2	19114.0	33966.1	34502.8	30546.9	29531.8
75°	2008.3	2056.9	2268.1	2736.8	3159.4	14206.2	32637.7	35391.6	30903.9	27538.1
77.5°	1503.2	1525.0	1697.5	2168.6	1617.3	7489.2	26078.6	29310.8	26455.0	22625.4
80°	1090.4	1114.6	1243.3	1627.0	1134.1	2739.2	17907.0	20573.4	18118.3	14422.3
82.5°	752.8	762.5	818.4	1107.4	791.7	1063.6	10160.4	12064.3	10114.3	5060.8
85°	454.1	466.3	490.5	646.0	449.3	505.1	4385.7	4536.3	3023.4	1209.3
87.5°	187.0	199.1	218.6	272.0	177.3	140.8	723.7	908.2	565.8	354.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951789  
 CATALOG NUMBER: GALN-SB5D-830-U-SL3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8285.7	0°	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7	8285.7
8310.0	2.5°	8297.9	8280.9	8234.7	8171.6	8113.3	8040.4	8008.9	7982.2	7957.9	7911.7
8375.6	5°	8348.9	8302.7	8178.9	8018.6	7836.5	7637.3	7443.1	7309.5	7195.4	7110.4
8450.8	7.5°	8426.6	8339.1	8113.3	7785.5	7367.8	6940.4	6554.3	6279.9	6073.4	5998.2
8557.7	10°	8506.7	8402.3	8008.9	7430.9	6709.7	6051.6	5539.2	5257.5	5092.4	5038.9
8684.0	12.5°	8601.4	8448.4	7846.2	6937.9	5973.9	5252.6	4805.8	4640.7	4555.7	4526.5
8839.4	15°	8739.8	8487.3	7600.9	6321.1	5272.1	4669.8	4380.8	4266.7	4223.0	4220.6
8999.7	17.5°	8844.2	8494.6	7219.6	5660.6	4733.0	4317.7	4079.7	4036.0	4065.1	4108.9
9157.5	20°	8960.8	8429.0	6719.4	5058.4	4354.1	4009.3	3909.7	3938.9	4009.3	4072.4
9366.4	22.5°	9043.4	8310.0	6114.7	4589.7	4026.3	3832.0	3827.2	3887.9	3926.7	3958.3
9611.6	25°	9116.2	8108.4	5473.6	4196.3	3756.7	3725.2	3778.6	3759.2	3732.5	3759.2
9856.9	27.5°	9169.7	7790.3	4900.5	3851.4	3567.3	3652.3	3620.7	3577.0	3574.6	3589.2
10145.9	30°	9152.7	7365.3	4429.4	3523.6	3433.8	3516.3	3441.0	3433.8	3426.5	3433.8
10580.6	32.5°	9152.7	6882.1	4067.6	3297.8	3348.8	3317.2	3309.9	3292.9	3263.8	3261.3
11170.7	35°	9203.7	6398.8	3756.7	3176.4	3278.3	3203.1	3207.9	3166.6	3105.9	3076.8
11952.6	37.5°	9308.1	6010.3	3448.3	3118.1	3154.5	3152.1	3132.6	3062.2	2955.4	2863.1
12928.8	40°	9560.6	5896.2	3237.1	3091.4	3096.2	3125.4	3074.4	2938.4	2695.5	2545.0
13919.6	42.5°	9956.5	6088.0	3190.9	3025.8	3057.4	3086.5	2986.9	2671.2	2498.8	2409.0
14959.0	45°	10459.1	6423.1	3290.5	2931.1	2965.1	3016.1	2719.8	2569.3	2491.5	2494.0
15988.6	47.5°	11095.4	6775.2	3475.0	2848.5	2831.5	2860.7	2542.5	2450.3	2343.4	2370.1
16977.0	50°	11831.2	7132.2	3649.9	2736.8	2683.4	2588.7	2428.4	2341.0	2205.0	2141.9
17931.3	52.5°	12627.7	7477.1	3720.3	2600.8	2523.1	2413.8	2350.7	2243.8	2078.7	1974.3
18832.3	55°	13382.9	7790.3	3642.6	2438.1	2362.8	2277.8	2268.1	2202.6	2025.3	1879.6
19633.6	57.5°	14096.9	8052.6	3448.3	2273.0	2200.1	2149.1	2214.7	2183.1	1959.7	1772.7
20391.3	60°	14701.6	8232.3	3166.6	2105.4	2054.4	2027.7	2127.3	2117.6	1867.4	1658.6
21071.3	62.5°	15182.4	8302.7	2855.8	1945.2	1933.0	1884.4	2005.9	2005.9	1750.9	1546.9
21668.6	65°	15558.8	8234.7	2540.1	1787.3	1811.6	1738.7	1857.7	1843.2	1627.0	1447.3
22355.9	67.5°	15891.5	8011.3	2190.4	1631.9	1687.7	1595.5	1702.3	1668.3	1491.0	1347.8
22950.8	70°	16039.6	7491.6	1792.2	1476.5	1544.5	1454.6	1546.9	1483.8	1338.1	1240.9
22297.6	72.5°	14849.7	6226.4	1410.9	1313.8	1372.0	1299.2	1379.3	1306.5	1172.9	1129.2
19254.8	75°	12285.3	4672.2	1085.5	1136.5	1180.2	1124.4	1177.8	1124.4	1002.9	1034.5
14223.2	77.5°	8922.0	3154.5	830.5	949.5	968.9	939.8	985.9	925.2	815.9	808.7
7088.5	80°	4436.7	1848.0	650.8	750.4	743.1	723.7	777.1	747.9	655.7	694.5
1913.6	82.5°	1284.6	791.7	473.5	527.0	512.4	517.2	556.1	570.7	854.8	847.5
595.0	85°	403.1	310.8	284.1	293.8	279.3	286.6	327.8	650.8	602.2	352.1
184.6	87.5°	104.4	106.8	70.4	75.3	77.7	92.3	104.4	395.8	189.4	123.8
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>
8285.7
7889.9
7039.9
5867.0
4956.4
4533.8
4230.3
4125.9
4094.3
3975.3
3776.2
3613.5
3460.5
3292.9
3105.9
2894.7
2564.4
2409.0
2506.1
2438.1
2158.9
1971.9
1879.6
1763.0
1651.3
1539.6
1437.6
1338.1
1221.5
1092.8
944.6
772.2
687.2
866.9
381.3
131.1
0.0

F REPORT)