

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: P942027

Luminaire Tested: **GALN-SB5D-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46220 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

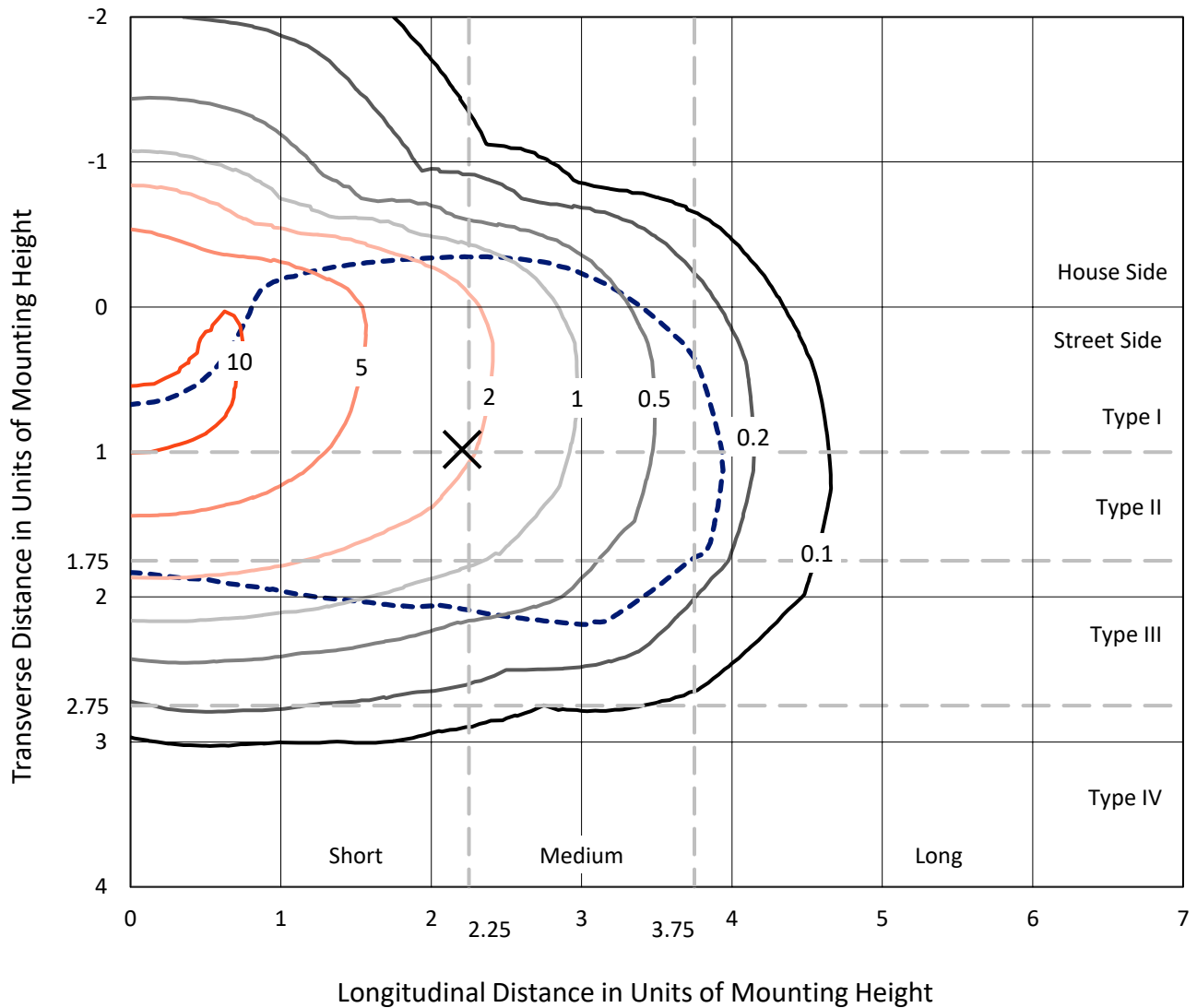
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942027
 CATALOG NUMBER: GALN-SB5D-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

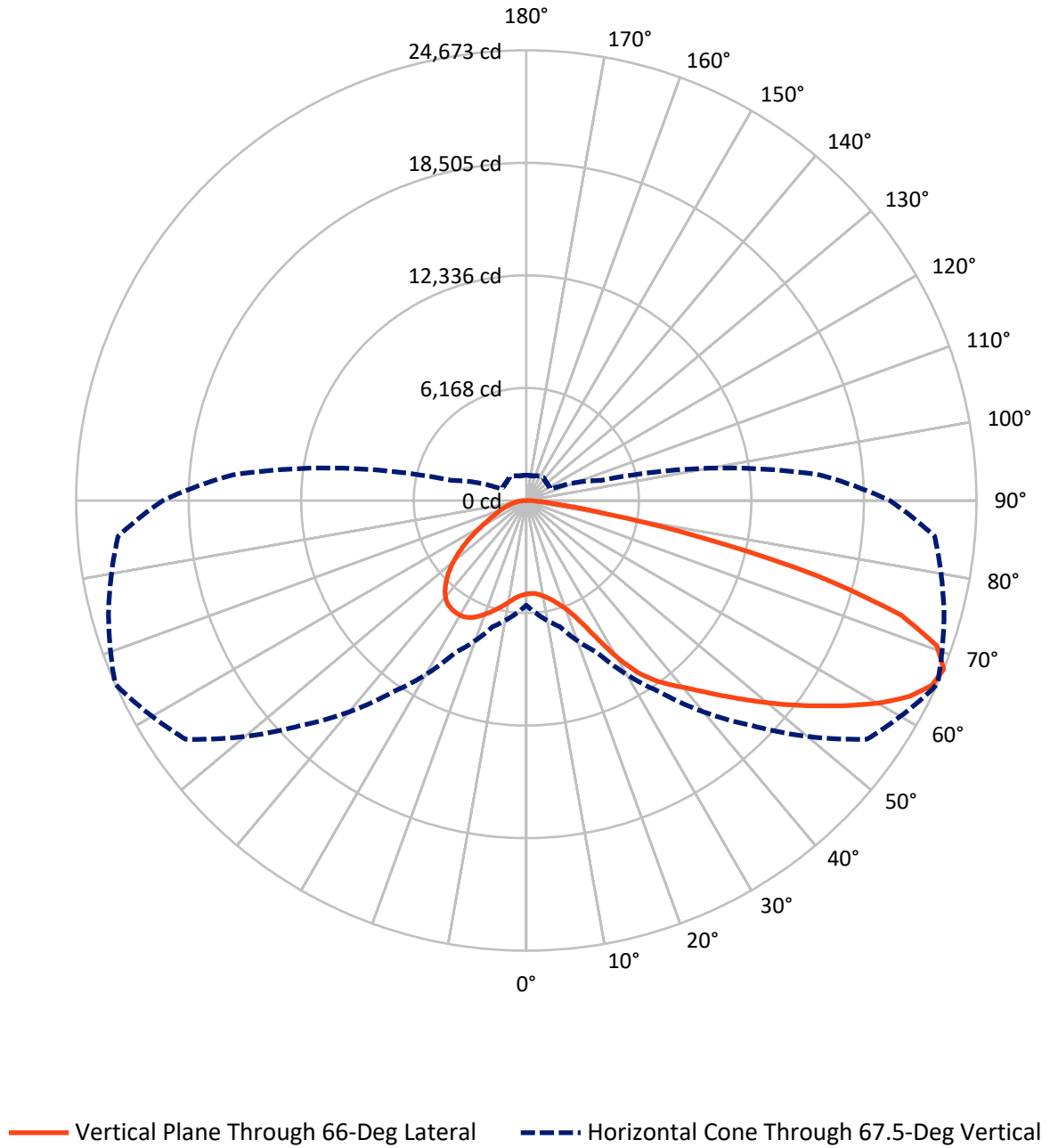
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - N/A

REPORT NUMBER: P942027
CATALOG NUMBER: GALN-SB5D-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P942027

CATALOG NUMBER: GALN-SB5D-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11492.5	0.0	11492.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	34727.5	0.0	34727.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	46220.0	0.0	46220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.3	1.1
10°-20°	1679.2	3.6
20°-30°	3236.6	7.0
30°-40°	5675.0	12.3
40°-50°	8436.9	18.3
50°-60°	10694.6	23.1
60°-70°	10464.4	22.6
70°-80°	4991.6	10.8
80°-90°	533.5	1.2
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°	46220.0	100.0
0°-180°	46220.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942027

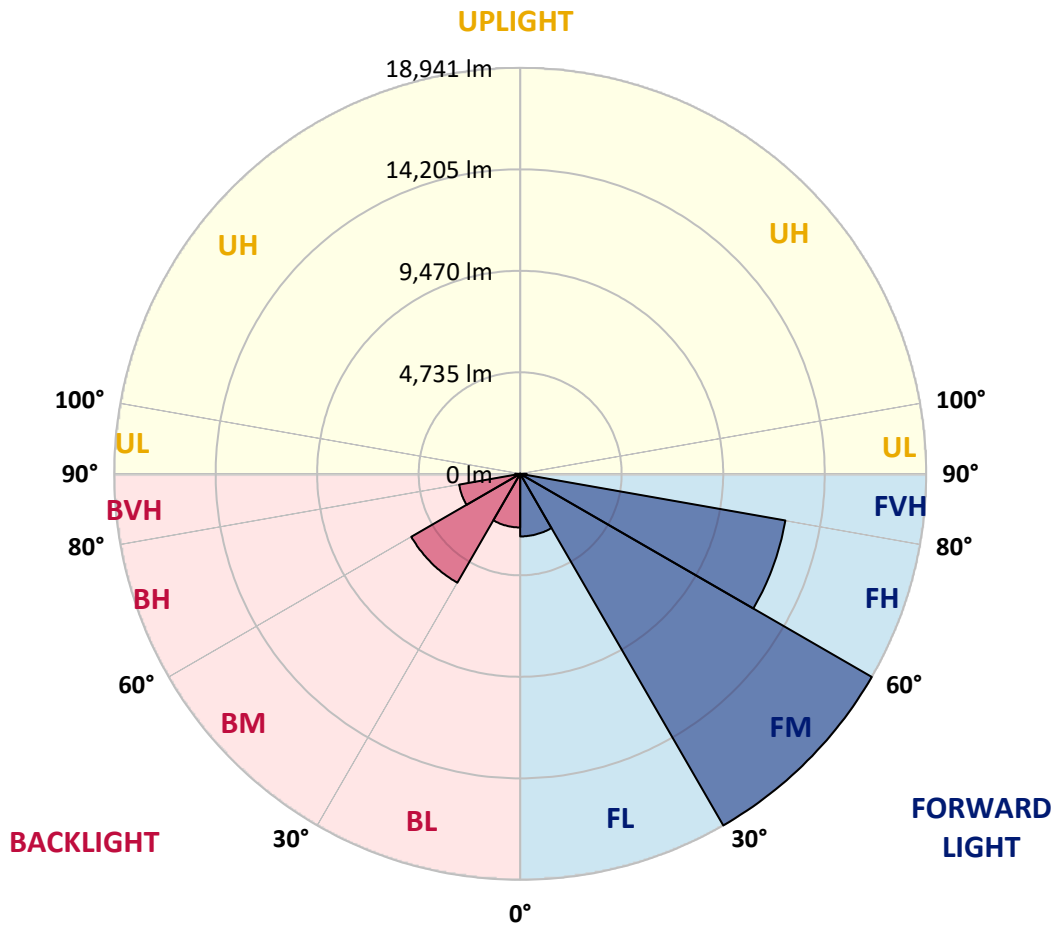
CATALOG NUMBER: GALN-SB5D-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2920.6	6.3			
FM (30°-60°)	18940.6	41.0			
FH (60°-80°)	12563.9	27.2			G5
FVH (80°-90°)	302.5	0.7			G3/500
BL (0°-30°)	2503.5	5.4	B4/5000		
BM (30°-60°)	5865.9	12.7	B4/8500		
BH (60°-80°)	2892.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	231.0	0.5			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 III Short



REPORT NUMBER: P942027
 CATALOG NUMBER: GALN-SB5D-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4
2.5°	5073.0	5102.1	5094.8	5082.7	5080.3	5085.1	5092.4	5099.7	5097.3	5109.4
5°	5058.4	5087.6	5085.1	5085.1	5094.8	5114.3	5126.4	5138.6	5126.4	5141.0
7.5°	5068.1	5090.0	5099.7	5109.4	5133.7	5170.1	5199.3	5226.0	5211.4	5228.4
10°	5192.0	5209.0	5218.7	5218.7	5235.7	5277.0	5306.1	5354.7	5342.5	5369.3
12.5°	5417.8	5434.8	5434.8	5425.1	5437.2	5464.0	5473.7	5527.1	5505.2	5549.0
15°	5694.7	5728.7	5701.9	5684.9	5689.8	5716.5	5714.1	5755.4	5733.5	5769.9
17.5°	6000.6	6044.4	6000.6	5998.2	5988.5	6017.6	6020.1	6056.5	6017.6	6044.4
20°	6362.5	6423.2	6386.8	6398.9	6377.0	6389.2	6401.3	6454.8	6394.0	6413.5
22.5°	6872.4	6945.3	6906.4	6952.6	6938.0	6928.3	6925.9	7020.6	6925.9	6933.2
25°	7615.5	7703.0	7635.0	7698.1	7698.1	7729.7	7766.1	7887.5	7729.7	7683.5
27.5°	8713.2	8800.6	8667.1	8705.9	8693.8	8771.5	8732.6	9033.7	8863.8	8788.5
30°	10034.3	10189.7	9937.1	9927.4	9915.3	10039.1	10095.0	10294.1	10121.7	10046.4
32.5°	11462.2	11624.9	11323.8	11236.3	11190.2	11265.5	11219.3	11379.6	11260.6	11144.1
35°	12972.7	13132.9	12846.4	12676.4	12491.8	12334.0	12168.8	12210.1	12098.4	11921.1
37.5°	14400.6	14694.4	14390.9	14208.7	13868.7	13560.3	13098.9	12907.1	12802.7	12640.0
40°	15855.2	16022.8	15792.1	15636.6	15267.5	14784.3	14046.0	13640.5	13499.6	13341.8
42.5°	16926.1	17086.4	16962.6	16855.7	16566.7	16005.8	15051.4	14543.8	14339.9	14162.6
45°	17776.1	17895.1	17817.4	17856.2	17732.4	17188.4	16093.2	15512.8	15301.5	15085.4
47.5°	18118.5	18244.8	18368.6	18599.3	18810.6	18409.9	17212.7	16561.9	16338.5	16117.5
50°	18079.6	18208.3	18567.8	19058.3	19714.0	19580.4	18392.9	17678.9	17472.5	17220.0
52.5°	17768.8	17914.5	18375.9	19191.9	20236.1	20457.1	19595.0	18832.4	18638.2	18337.1
55°	16952.8	17040.3	17732.4	18888.3	20359.9	21069.0	20772.8	20061.2	19867.0	19446.8
57.5°	15439.9	15566.2	16574.0	18069.9	20049.1	21484.3	21807.3	21353.2	21166.2	20561.5
60°	13465.6	13667.2	14820.7	16695.4	19257.4	21481.9	22747.1	22623.2	22467.8	21659.1
62.5°	11231.5	11464.6	12574.4	14752.7	17873.2	20872.3	23334.8	23686.9	23606.7	22671.8
65°	8625.8	8786.0	9891.0	12239.3	15719.2	19563.4	23402.7	24413.0	24427.5	23441.6
67.5°	5743.2	6204.6	7163.9	9184.3	12834.2	17424.0	22805.4	24532.0	24672.8	23706.3
70°	2802.4	3409.5	4349.3	5969.1	9184.3	14143.2	21243.9	23555.7	23869.0	22934.1
72.5°	1163.2	1359.9	1872.3	2945.7	5272.1	9543.7	18106.3	20908.8	21489.1	20321.1
75°	784.4	849.9	1070.9	1510.5	2401.7	4706.3	13057.7	15590.5	16525.4	15347.7
77.5°	604.7	646.0	779.5	1056.4	1427.9	1780.0	6989.0	9395.6	9878.8	9145.5
80°	476.0	507.5	582.8	769.8	1012.7	951.9	2382.3	4257.0	4536.3	3805.3
82.5°	412.8	425.0	417.7	522.1	672.7	556.1	782.0	1571.2	1733.9	1257.9
85°	298.7	332.7	347.3	323.0	357.0	281.7	320.6	556.1	612.0	546.4
87.5°	121.4	179.7	221.0	208.8	131.1	80.1	99.6	162.7	187.0	204.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942027
 CATALOG NUMBER: GALN-SB5D-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5126.4	0°	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4	5126.4
5128.8	2.5°	5131.3	5148.3	5160.4	5175.0	5184.7	5199.3	5228.4	5245.4	5247.8	5260.0
5167.7	5°	5177.4	5201.7	5228.4	5267.3	5311.0	5347.4	5403.2	5442.1	5456.7	5468.8
5262.4	7.5°	5277.0	5311.0	5359.5	5427.5	5490.7	5539.2	5607.2	5653.4	5699.5	5716.5
5413.0	10°	5425.1	5473.7	5544.1	5636.4	5704.4	5767.5	5837.9	5876.8	5922.9	5942.4
5592.7	12.5°	5609.7	5660.7	5752.9	5881.6	5944.8	5988.5	6012.8	6003.1	6012.8	6029.8
5808.8	15°	5820.9	5876.8	5981.2	6119.6	6163.3	6124.5	6071.1	6022.5	6015.2	6020.1
6071.1	17.5°	6071.1	6112.4	6233.8	6350.3	6318.8	6158.5	6041.9	5964.2	5925.4	5913.2
6406.2	20°	6420.8	6420.8	6520.3	6593.2	6381.9	6109.9	5927.8	5801.5	5721.4	5687.4
6862.7	22.5°	6845.7	6806.9	6870.0	6819.0	6369.8	5973.9	5721.4	5502.8	5381.4	5332.8
7501.4	25°	7384.8	7338.7	7321.7	7006.0	6282.3	5757.8	5347.4	5082.7	4975.8	4949.1
8421.8	27.5°	8198.4	8081.8	7860.8	7108.0	6122.1	5417.8	4910.3	4665.0	4604.3	4606.7
9604.4	30°	9281.4	9048.3	8506.8	7125.0	5859.8	4937.0	4463.4	4288.6	4259.5	4271.6
10597.7	32.5°	10284.4	10063.4	9167.3	7047.3	5456.7	4465.9	4062.8	3946.2	3902.5	3917.1
11355.3	35°	11071.2	11010.5	9779.3	6938.0	4961.3	4023.9	3703.4	3603.8	3518.8	3499.4
12069.3	37.5°	11814.3	11790.0	10238.2	6785.0	4470.7	3710.6	3414.4	3283.2	3159.4	3091.4
12858.5	40°	12630.2	12606.0	10539.4	6549.5	4036.0	3438.7	3154.5	2982.1	2829.1	2705.3
13752.2	42.5°	13548.2	13404.9	10682.6	6211.9	3666.9	3208.0	2943.3	2710.1	2508.6	2394.4
14762.4	45°	14551.1	14228.2	10680.2	5782.1	3356.1	2996.7	2717.4	2387.1	2200.2	2093.3
15799.3	47.5°	15614.8	15015.0	10549.1	5306.1	3055.0	2763.5	2367.7	2115.2	1991.3	1925.7
16926.1	50°	16712.4	15750.8	10325.7	4759.7	2746.6	2498.9	2149.2	1976.7	1882.0	1821.3
18043.2	52.5°	17744.5	16418.6	10056.1	4140.5	2433.3	2241.4	2052.0	1918.5	1818.9	1750.9
19126.3	55°	18703.7	16994.1	9674.9	3506.6	2178.3	2069.0	2005.9	1894.2	1780.0	1699.9
20226.4	57.5°	19556.1	17368.1	9016.7	2911.7	1996.2	1950.0	1957.3	1852.9	1721.8	1653.8
21309.4	60°	20265.2	17642.5	8042.9	2360.4	1848.0	1833.5	1882.0	1775.2	1622.2	1544.5
22225.0	62.5°	20690.2	17637.7	6848.2	1933.0	1721.8	1726.6	1782.5	1678.0	1522.6	1449.8
22703.4	65°	20653.8	17205.4	5536.8	1653.8	1600.3	1605.2	1678.0	1571.2	1440.1	1396.3
22462.9	67.5°	19922.8	16151.5	4247.3	1471.6	1466.8	1488.6	1573.6	1498.3	1389.1	1384.2
21030.2	70°	17943.6	13963.5	3059.8	1325.9	1328.3	1359.9	1471.6	1452.2	1362.3	1372.1
17681.4	72.5°	14388.4	10646.2	2054.4	1172.9	1175.4	1226.4	1374.5	1415.8	1335.6	1464.3
12545.3	75°	9582.6	6639.3	1321.1	1010.2	1012.7	1078.2	1289.5	1345.3	1262.8	1459.5
6527.6	77.5°	4604.3	2984.5	956.8	849.9	849.9	910.7	1114.6	1204.5	1075.8	1134.1
2098.2	80°	1590.6	1121.9	752.8	684.8	670.2	711.5	939.8	1044.2	927.7	854.8
684.8	82.5°	626.5	582.8	604.7	531.8	483.3	510.0	731.0	862.1	682.4	616.8
386.1	85°	359.4	378.8	427.4	352.1	279.3	313.3	536.7	619.2	514.8	454.1
126.3	87.5°	97.1	133.6	196.7	182.1	126.3	133.6	255.0	342.4	296.3	228.3
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

180°
5126.4
5257.5
5466.4
5718.9
5952.1
6034.6
6037.1
5930.2
5680.1
5325.5
4954.0
4614.0
4312.9
3936.5
3513.9
3093.8
2717.4
2401.7
2088.4
1911.2
1799.5
1721.8
1668.3
1610.0
1510.5
1427.9
1393.9
1391.5
1369.6
1483.8
1471.6
1039.4
801.4
614.4
463.8
235.6
0.0

F REPORT)