

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: P940665

Luminaire Tested: **GALN-SB3D-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3D-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27183 lumens  
Efficiency: N/A  
Efficacy: 124.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

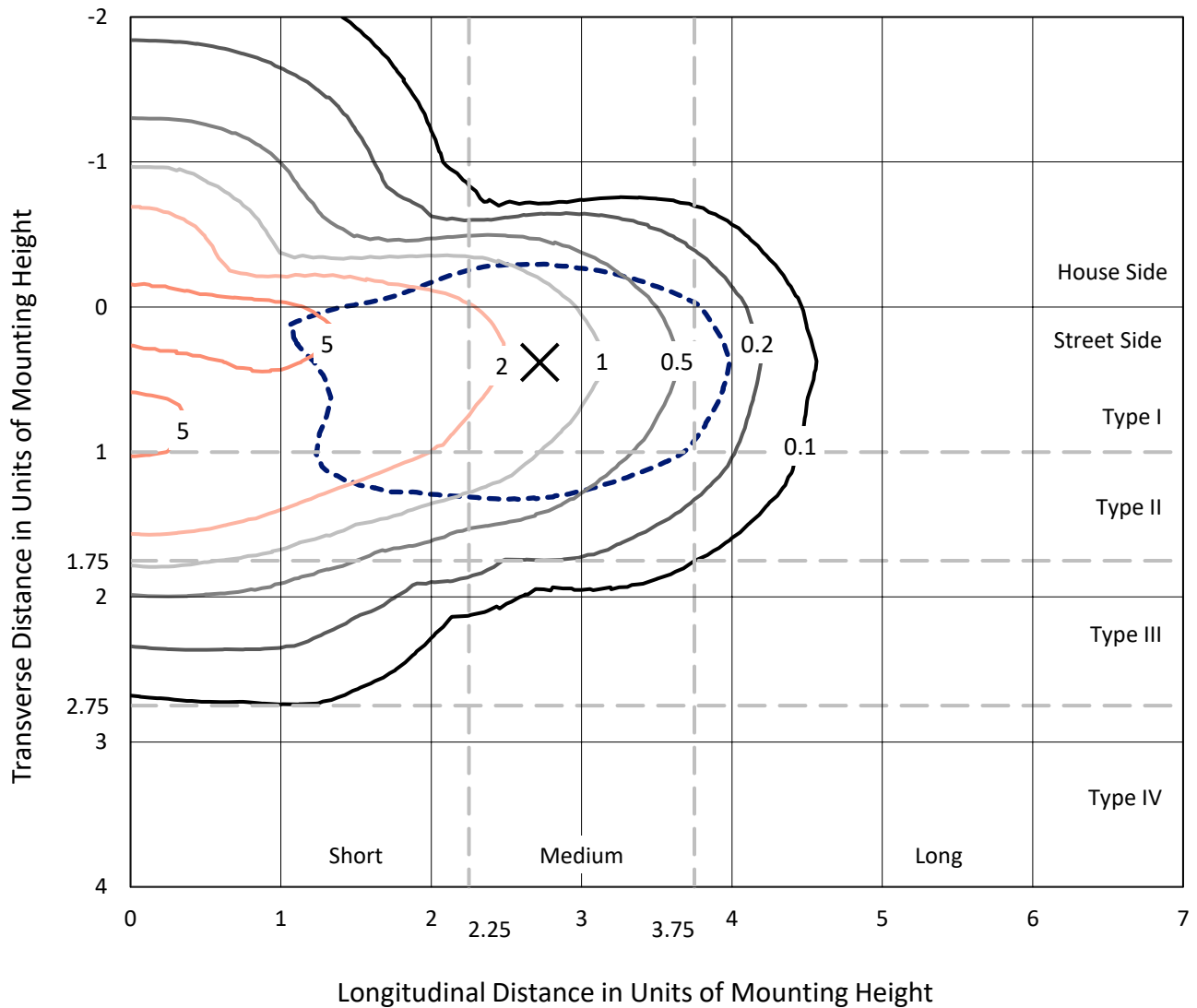
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P940665  
 CATALOG NUMBER: GALN-SB3D-830-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

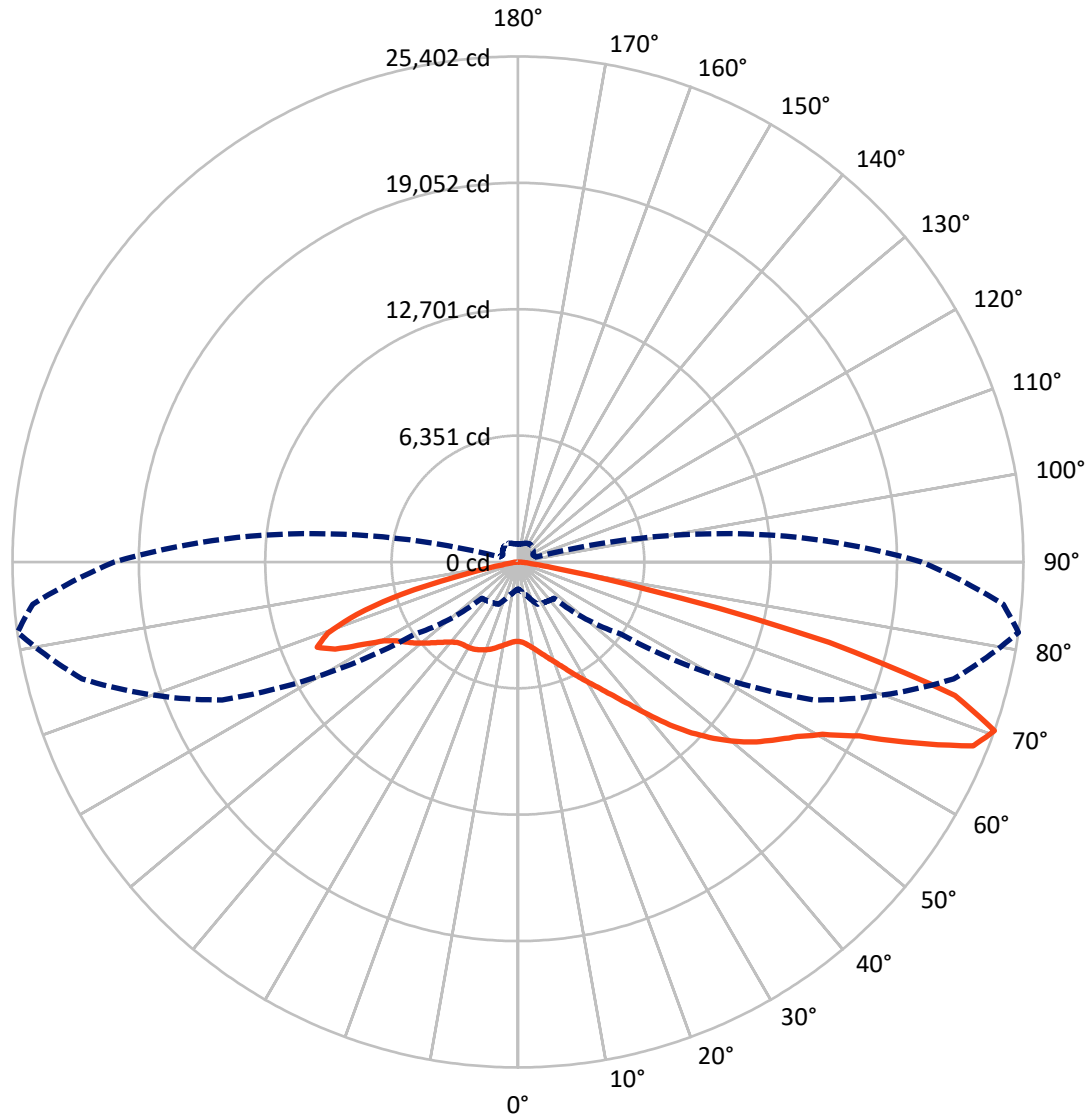
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P940665  
CATALOG NUMBER: GALN-SB3D-830-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P940665  
 CATALOG NUMBER: GALN-SB3D-830-U-T2

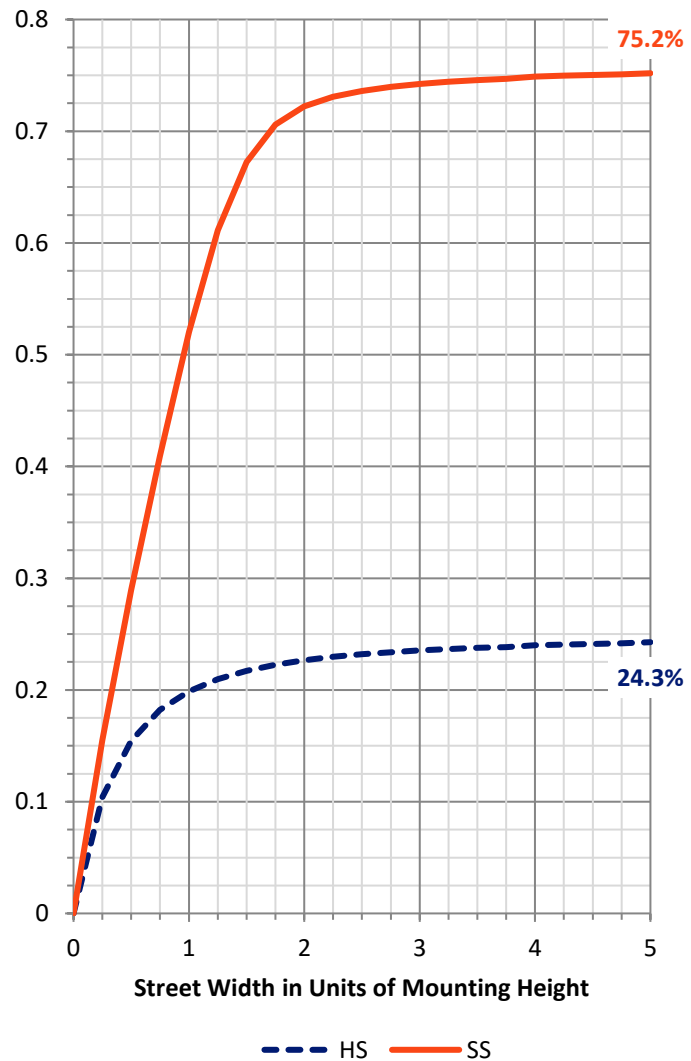
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6701.3	0.0	6701.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	20481.7	0.0	20481.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	27183.0	0.0	27183.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.3	1.4
10°-20°	1081.1	4.0
20°-30°	1808.6	6.7
30°-40°	2825.5	10.4
40°-50°	4499.9	16.6
50°-60°	6262.1	23.0
60°-70°	6550.5	24.1
70°-80°	3423.6	12.6
80°-90°	355.5	1.3
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°	27183.0	100.0
0°-180°	27183.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P940665

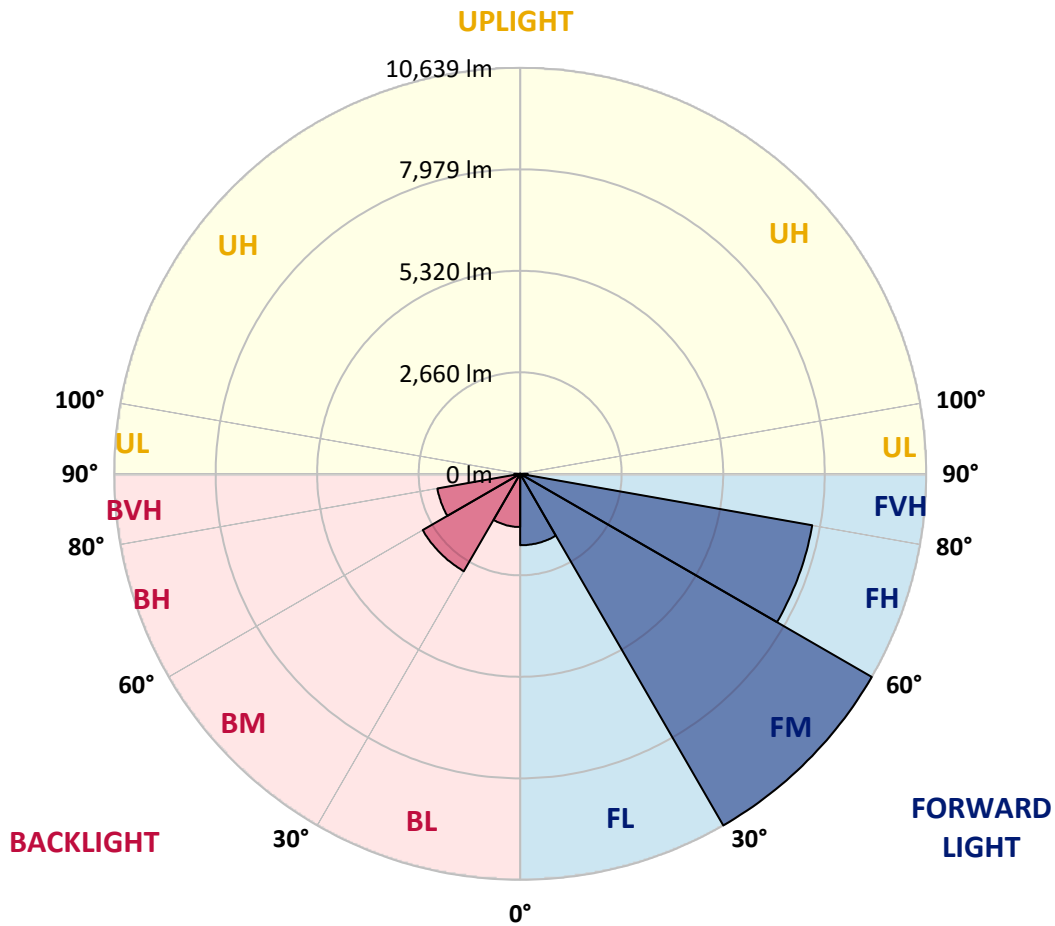
CATALOG NUMBER: GALN-SB3D-830-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.9	6.9			
FM (30°-60°)	10639.2	39.1			
FH (60°-80°)	7771.7	28.6			G4/12000
FVH (80°-90°)	199.0	0.7			G2/225
BL (0°-30°)	1394.1	5.1	B3/2500		
BM (30°-60°)	2948.3	10.8	B3/5000		
BH (60°-80°)	2202.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	156.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



REPORT NUMBER: P940665

CATALOG NUMBER: GALN-SB3D-830-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4
2.5°	4080.6	4103.6	4096.4	4089.2	4089.2	4079.1	4077.7	4063.3	4051.7	4033.0
5°	4132.5	4157.0	4154.1	4159.9	4178.7	4183.0	4187.3	4178.7	4155.6	4132.5
7.5°	4086.3	4113.7	4122.4	4157.0	4214.7	4266.6	4305.6	4321.4	4299.8	4266.6
10°	3930.6	3960.8	3991.1	4073.4	4175.8	4298.4	4402.2	4464.2	4459.9	4428.2
12.5°	3614.7	3646.4	3711.3	3871.4	4058.9	4275.3	4468.6	4598.4	4643.1	4620.0
15°	3362.2	3389.7	3438.7	3603.1	3846.9	4175.8	4493.1	4745.5	4859.5	4846.5
17.5°	3355.0	3366.6	3396.9	3474.8	3662.3	4020.0	4467.1	4889.8	5107.6	5106.1
20°	3482.0	3486.3	3503.6	3519.5	3626.2	3901.7	4400.8	5009.5	5385.9	5385.9
22.5°	3657.9	3655.1	3672.4	3657.9	3709.9	3891.6	4359.0	5114.8	5696.1	5719.1
25°	3921.9	3907.5	3903.2	3870.0	3880.1	3985.4	4405.1	5234.5	6063.9	6111.5
27.5°	4273.8	4250.8	4234.9	4158.5	4132.5	4178.7	4546.5	5378.7	6473.5	6555.7
30°	4732.5	4690.7	4667.6	4534.9	4441.2	4448.4	4759.9	5570.6	6901.9	7034.6
32.5°	5358.5	5293.6	5231.6	5013.8	4842.2	4785.9	5035.4	5836.0	7366.4	7578.4
35°	6059.5	6007.6	5941.3	5605.2	5341.2	5211.4	5407.6	6206.7	7910.2	8246.2
37.5°	6734.6	6689.9	6721.6	6268.7	5928.3	5739.3	5895.1	6704.3	8580.9	9077.1
40°	7432.7	7398.1	7402.4	6969.7	6573.0	6361.0	6486.5	7328.9	9349.7	10065.1
42.5°	8191.4	8165.5	8078.9	7695.2	7249.5	7051.9	7167.3	8050.1	10174.7	11190.2
45°	9041.0	9025.1	8944.4	8504.4	7993.8	7771.7	7927.5	8846.3	11004.1	12248.9
47.5°	9775.2	9788.2	9778.1	9407.4	8878.0	8552.0	8738.1	9677.1	11775.8	13244.2
50°	10128.6	10196.4	10295.9	10180.5	9851.6	9519.9	9555.9	10479.1	12511.4	14177.4
52.5°	9943.9	10072.3	10343.5	10528.1	10655.1	10585.8	10489.2	11275.3	13203.8	15019.8
55°	9255.9	9436.2	9886.3	10332.0	10979.6	11483.0	11609.9	12158.0	13878.8	15761.2
57.5°	8002.5	8295.3	8699.2	9600.7	10691.1	11917.2	12916.7	13382.6	14594.3	16553.1
60°	5853.3	6245.6	6747.6	8089.0	9681.4	11684.9	14028.8	15263.5	15611.2	17578.6
62.5°	3745.9	3988.3	4449.8	5713.4	7543.8	10494.9	14369.2	17614.7	17334.8	19260.4
65°	2564.6	2720.4	3143.0	3852.7	4876.8	7812.1	13457.6	19377.3	20072.5	21926.0
67.5°	1863.6	1981.9	2342.5	2964.1	3177.6	4622.9	10443.0	19296.5	22733.8	24672.4
70°	1358.7	1442.4	1745.3	2342.5	2444.9	2571.8	6326.4	16403.0	22676.1	25402.2
72.5°	1006.8	1064.5	1267.9	1817.4	1979.0	1736.7	3131.5	11921.5	19485.5	22976.1
75°	728.4	771.7	921.7	1390.5	1583.8	1322.7	1562.1	6966.8	13591.8	16162.2
77.5°	556.8	589.9	688.0	1018.3	1267.9	992.4	969.3	3205.0	6444.7	6476.4
80°	447.1	468.8	522.2	716.9	972.2	742.8	631.8	1293.8	2036.7	1723.7
82.5°	328.9	364.9	441.4	503.4	695.2	512.1	385.1	653.4	774.6	666.4
85°	187.5	212.0	266.8	360.6	444.3	313.0	220.7	289.9	360.6	295.7
87.5°	66.4	86.5	93.8	141.4	193.3	129.8	85.1	83.7	118.3	88.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940665  
 CATALOG NUMBER: GALN-SB3D-830-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3985.4	0°	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4	3985.4
4028.6	2.5°	4014.2	4007.0	3978.2	3939.2	3898.8	3859.9	3846.9	3819.5	3800.7	3790.6
4122.4	5°	4095.0	4071.9	4004.1	3917.6	3826.7	3728.6	3659.4	3595.9	3549.8	3506.5
4250.8	7.5°	4210.4	4170.0	4053.2	3901.7	3740.2	3577.2	3456.0	3363.7	3301.7	3261.3
4400.8	10°	4344.5	4282.5	4103.6	3877.2	3627.7	3394.0	3251.2	3171.9	3132.9	3111.3
4572.4	12.5°	4498.9	4410.9	4155.6	3820.9	3456.0	3189.2	3091.1	3068.0	3069.4	3070.9
4788.8	15°	4689.3	4566.7	4197.4	3698.3	3232.4	3031.9	3014.6	3052.1	3091.1	3109.8
5034.0	17.5°	4904.2	4731.1	4204.6	3496.4	3013.2	2931.0	2985.8	3066.6	3125.7	3151.7
5308.1	20°	5135.0	4898.4	4152.7	3210.8	2832.9	2848.8	2946.8	3050.7	3115.6	3148.8
5621.1	22.5°	5398.9	5077.3	4028.6	2910.8	2685.8	2759.3	2874.7	2975.7	3043.5	3076.7
5988.9	25°	5700.4	5277.8	3833.9	2658.4	2558.8	2658.4	2773.7	2857.4	2912.2	2942.5
6400.0	27.5°	6035.0	5486.9	3574.3	2457.9	2447.8	2554.5	2649.7	2714.6	2743.5	2766.5
6837.0	30°	6371.1	5677.3	3259.8	2306.4	2351.1	2452.1	2519.9	2548.7	2557.4	2561.7
7324.5	32.5°	6734.6	5841.7	2929.5	2180.9	2258.8	2352.6	2393.0	2405.9	2365.5	2338.1
7915.9	35°	7174.5	6017.7	2606.4	2081.4	2167.9	2248.7	2261.7	2250.2	2202.6	2146.3
8657.3	37.5°	7718.3	6237.0	2348.2	2010.7	2082.8	2136.2	2120.3	2117.5	2121.8	2055.4
9548.7	40°	8384.7	6522.6	2159.3	1955.9	2013.6	2025.1	1980.4	2004.9	2026.6	1925.6
10526.7	42.5°	9124.7	6867.3	2039.6	1918.4	1955.9	1928.5	1859.3	1886.7	1883.8	1751.1
11509.0	45°	9879.0	7242.3	1997.7	1891.0	1902.5	1847.7	1771.3	1778.5	1717.9	1598.2
12450.8	47.5°	10629.1	7644.8	2023.7	1867.9	1836.2	1774.2	1715.0	1683.3	1593.9	1504.4
13353.8	50°	11364.7	8067.4	2118.9	1821.8	1745.3	1709.3	1666.0	1609.7	1514.5	1438.1
14207.7	52.5°	12047.0	8492.9	2225.6	1745.3	1631.4	1653.0	1625.6	1560.7	1466.9	1389.0
15015.4	55°	12693.2	8918.4	2267.5	1640.0	1524.6	1604.0	1588.1	1468.4	1355.9	1292.4
15860.7	57.5°	13397.1	9430.5	2221.3	1505.9	1438.1	1547.7	1487.1	1354.4	1289.5	1241.9
16961.3	60°	14372.1	10233.9	2121.8	1340.0	1355.9	1464.0	1360.2	1305.4	1234.7	1181.3
18611.4	62.5°	15992.0	11732.5	1961.7	1175.6	1259.2	1340.0	1299.6	1244.8	1172.7	1120.7
21432.7	65°	18386.3	13815.4	1660.2	1047.2	1151.0	1218.8	1234.7	1179.9	1104.9	1050.1
23905.0	67.5°	20405.7	15122.2	1256.3	940.4	1040.0	1120.7	1165.5	1112.1	1032.8	979.4
24483.4	70°	20294.7	14173.1	959.2	835.2	941.9	1024.1	1081.8	1040.0	954.9	904.4
22239.0	72.5°	18025.7	11856.6	776.0	728.4	842.4	923.1	992.4	960.6	874.1	825.1
16292.0	75°	13242.7	8416.4	620.2	620.2	718.3	817.8	894.3	874.1	794.8	760.1
6839.9	77.5°	5582.1	3531.0	486.1	514.9	597.2	702.5	797.7	804.9	735.6	778.9
1808.8	80°	1484.2	973.6	370.7	405.3	468.8	579.8	693.8	690.9	615.9	575.5
672.2	82.5°	565.4	383.7	264.0	285.6	339.0	444.3	549.6	566.9	491.9	425.5
264.0	85°	217.8	164.4	163.0	171.6	197.6	294.3	415.4	429.8	370.7	314.4
73.6	87.5°	56.3	49.0	60.6	57.7	90.9	157.2	238.0	246.7	226.5	131.3
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

<u>180°</u>
3985.4
3802.2
3523.8
3269.9
3117.0
3073.8
3108.4
3157.4
3157.4
3085.3
2951.2
2775.2
2571.8
2346.8
2149.2
2059.8
1928.5
1749.6
1602.5
1504.4
1432.3
1390.5
1286.6
1237.6
1178.4
1120.7
1053.0
980.8
908.7
825.1
750.1
706.8
535.1
425.5
324.5
187.5
0.0

F REPORT)