

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: P952493

Luminaire Tested: **GALN-SB6B-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6B-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

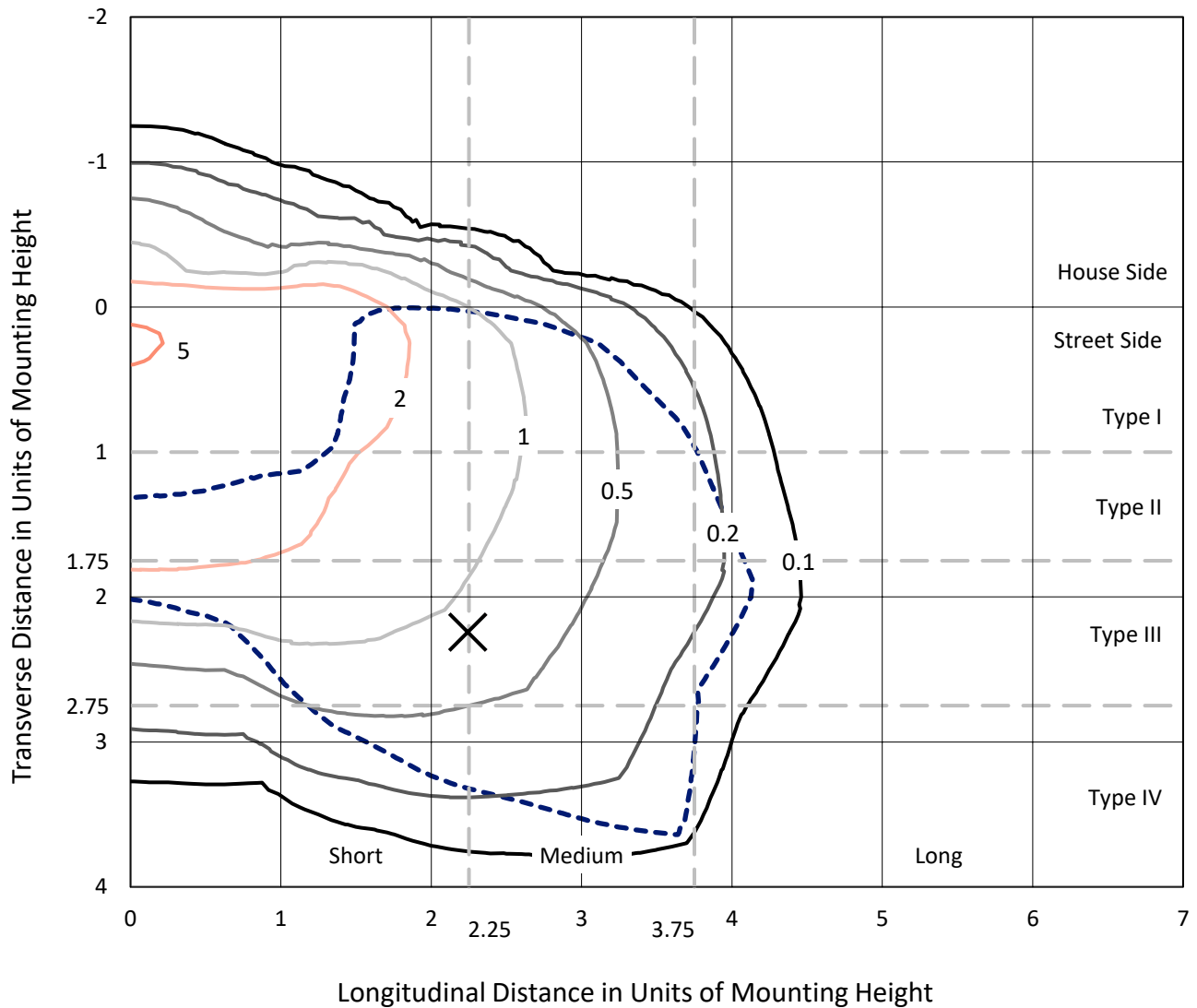
Lumens per Lamp: N/A  
Luminaire Lumens: 22872 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P952493  
 CATALOG NUMBER: GALN-SB6B-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

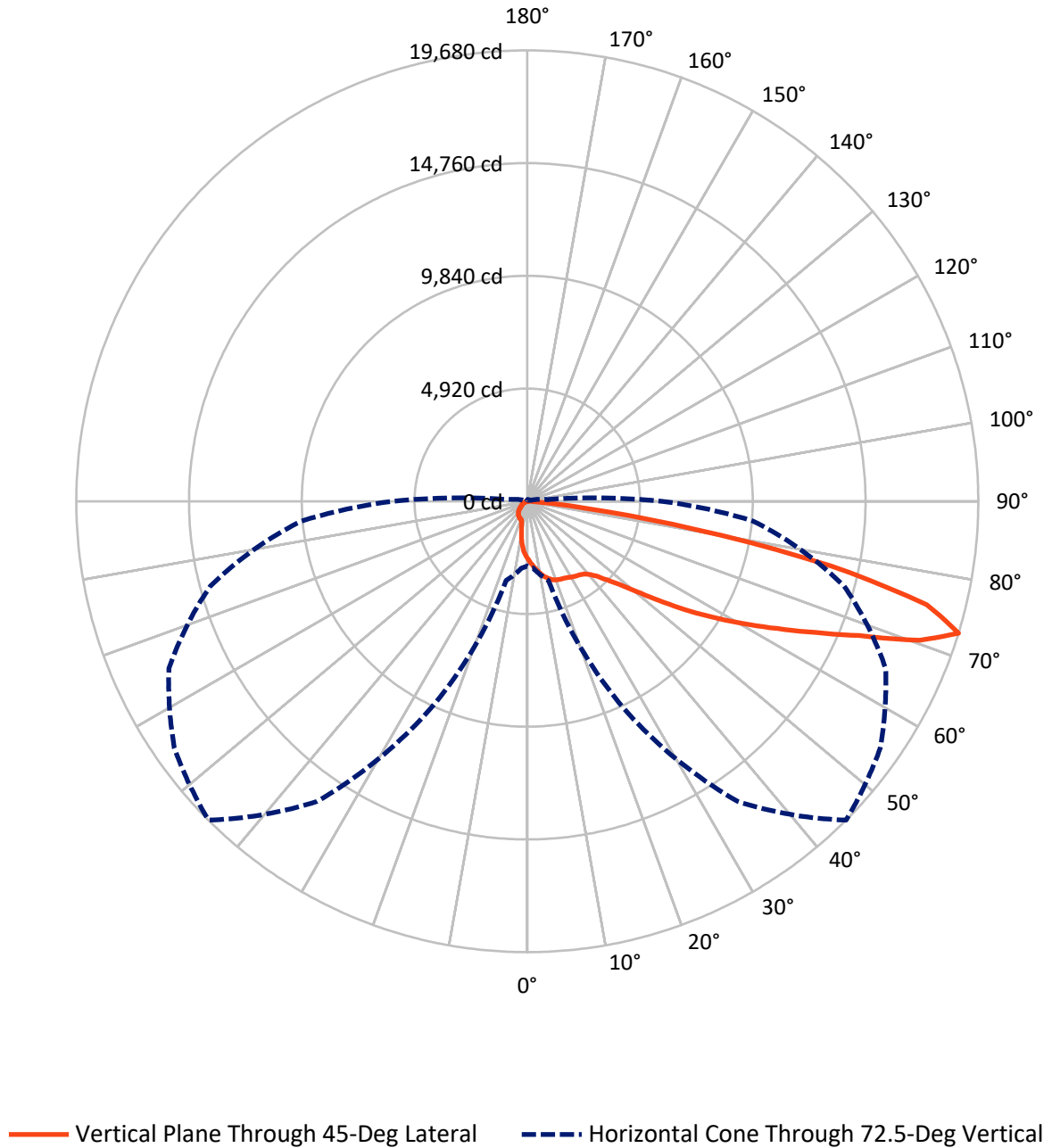
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P952493  
CATALOG NUMBER: GALN-SB6B-827-U-T4W-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P952493  
 CATALOG NUMBER: GALN-SB6B-827-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2403.2	0.0	2403.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	20468.8	0.0	20468.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	22872.0	0.0	22872.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	1.0
10°-20°	690.0	3.0
20°-30°	1133.1	5.0
30°-40°	1606.9	7.0
40°-50°	2656.1	11.6
50°-60°	4771.4	20.9
60°-70°	6625.3	29.0
70°-80°	4805.8	21.0
80°-90°	347.4	1.5
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°	22872.0	100.0
0°-180°	22872.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P952493

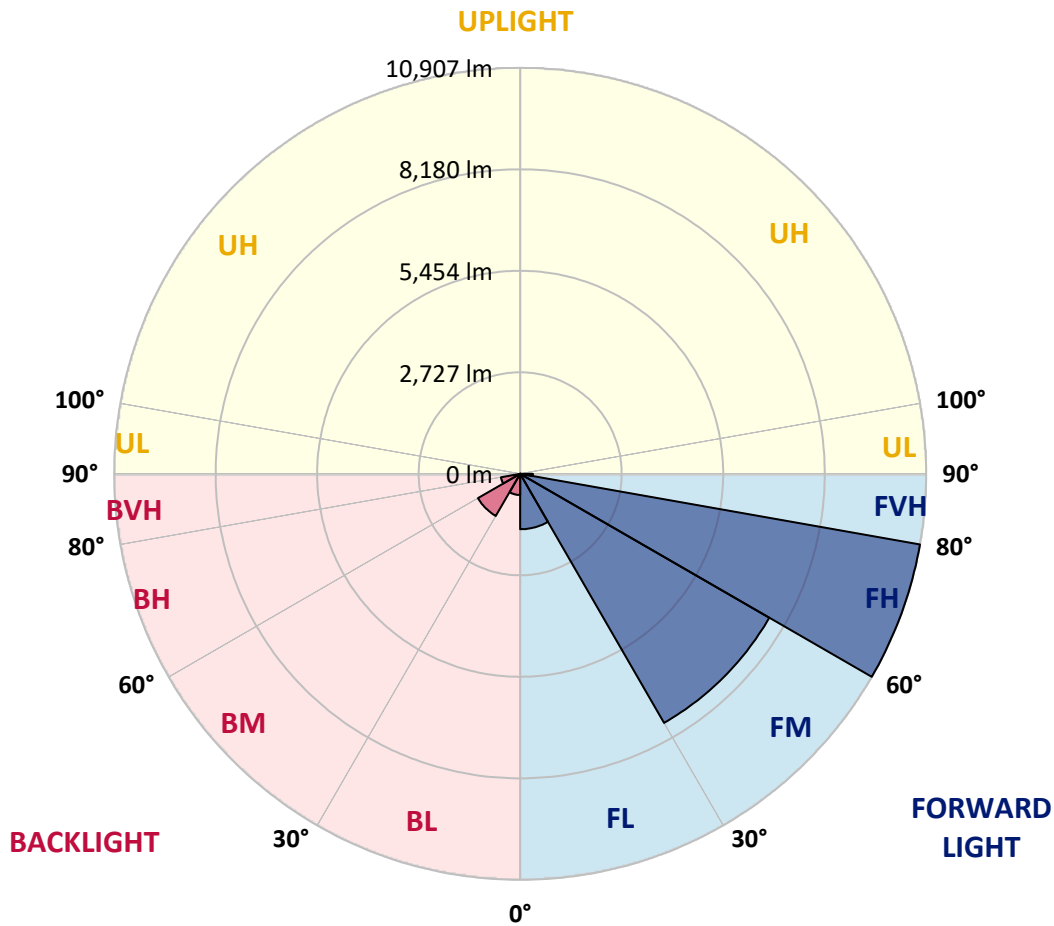
CATALOG NUMBER: GALN-SB6B-827-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.9	6.5			
FM (30°-60°)	7727.4	33.8			
FH (60°-80°)	10907.0	47.7			G4/12000
FVH (80°-90°)	344.5	1.5			G3/500
BL (0°-30°)	569.2	2.5	B2/1000		
BM (30°-60°)	1307.0	5.7	B2/2500		
BH (60°-80°)	524.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



REPORT NUMBER: P952493  
 CATALOG NUMBER: GALN-SB6B-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2.5°	2736.7	2741.4	2738.3	2719.6	2688.3	2671.2	2661.8	2630.6	2610.3	2574.4
5°	2988.1	3006.8	2995.9	2958.4	2899.1	2856.9	2844.4	2780.4	2722.7	2655.5
7.5°	3255.0	3264.4	3244.1	3195.7	3116.1	3044.3	3033.4	2944.4	2852.3	2749.2
10°	3486.1	3497.0	3465.8	3395.5	3305.0	3216.0	3200.4	3102.0	2992.8	2866.3
12.5°	3679.7	3690.6	3650.0	3565.7	3465.8	3373.7	3358.1	3255.0	3134.8	2994.3
15°	3826.4	3846.7	3792.1	3701.5	3593.8	3501.7	3493.9	3392.4	3275.3	3119.2
17.5°	3912.3	3932.6	3881.1	3771.8	3679.7	3601.6	3592.2	3507.9	3398.7	3248.8
20°	3926.3	3945.1	3890.4	3795.2	3718.7	3656.3	3651.6	3590.7	3511.1	3367.4
22.5°	3884.2	3907.6	3857.6	3781.2	3728.1	3695.3	3689.0	3654.7	3609.4	3487.7
25°	3840.5	3859.2	3821.7	3754.6	3726.5	3723.4	3728.1	3721.8	3712.5	3609.4
27.5°	3837.4	3857.6	3815.5	3751.5	3735.9	3768.7	3773.3	3803.0	3810.8	3720.3
30°	3863.9	3877.9	3837.4	3770.2	3762.4	3837.4	3838.9	3892.0	3904.5	3813.9
32.5°	3921.7	3937.3	3896.7	3798.3	3787.4	3892.0	3896.7	3966.9	3987.2	3913.9
35°	4057.5	4076.2	4029.4	3876.4	3837.4	3943.5	3957.6	4040.3	4080.9	4020.0
37.5°	4396.3	4341.6	4277.6	4034.1	3951.3	4024.7	4048.1	4144.9	4216.7	4146.5
40°	5237.7	5066.0	4866.2	4302.6	4151.1	4198.0	4216.7	4313.5	4411.9	4343.2
42.5°	6500.7	6297.8	5976.2	4920.8	4452.5	4475.9	4489.9	4574.2	4713.2	4658.5
45°	7626.3	7552.9	7225.1	5976.2	5016.0	4900.5	4917.7	4961.4	5165.9	5145.6
47.5°	8491.2	8449.0	8196.1	7187.6	5968.3	5420.4	5468.8	5489.1	5784.1	5855.9
50°	9156.3	9140.6	8914.3	8264.8	7212.6	6186.9	6204.1	6160.4	6602.2	6780.2
52.5°	9783.8	9836.9	9669.9	9265.5	8541.2	7190.7	7187.6	6981.5	7577.9	7846.4
55°	10350.6	10369.3	10386.5	10286.5	9877.5	8333.5	8303.9	7966.6	8709.8	8987.6
57.5°	10882.9	10890.7	11043.7	11248.2	11268.5	9560.6	9506.0	9101.6	9946.2	10144.5
60°	11240.4	11276.3	11599.5	12167.8	12416.0	10826.7	10797.0	10384.9	11204.5	11296.6
62.5°	10725.2	10943.8	11758.7	12885.9	13499.4	12230.2	12216.1	11829.0	12528.4	12453.4
65°	8681.7	9051.7	10484.8	13371.4	14562.6	13797.6	13817.9	13405.8	13888.2	13644.6
67.5°	6072.9	6463.2	8158.7	13410.4	15750.6	15638.2	15755.3	15109.0	15332.2	14785.8
70°	4199.5	4400.9	5504.7	12570.5	16676.4	18173.6	18170.4	17201.0	16768.5	15305.7
72.5°	2824.2	2928.8	3575.1	9972.7	15995.7	19680.1	19589.5	18799.6	17252.5	14314.4
75°	1191.2	1267.7	1654.8	5604.6	12654.8	18005.0	17759.9	16614.0	15329.1	11271.6
77.5°	377.8	410.6	652.6	2006.1	6970.6	13533.8	13274.6	10375.5	10274.1	5654.6
80°	179.5	209.2	366.9	805.6	2743.0	7360.9	7325.0	4706.9	4419.7	1526.8
82.5°	78.1	92.1	203.0	430.9	1227.1	2625.9	2679.0	1601.8	1325.4	579.2
85°	25.0	32.8	93.7	198.3	518.3	652.6	644.8	380.9	533.9	315.4
87.5°	0.0	0.0	31.2	45.3	53.1	37.5	42.2	32.8	148.3	87.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952493  
 CATALOG NUMBER: GALN-SB6B-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2505.7	0°	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7	2505.7
2536.9	2.5°	2518.2	2493.2	2449.5	2408.9	2373.0	2337.1	2315.2	2284.0	2280.9	2280.9
2577.5	5°	2535.3	2494.7	2416.7	2333.9	2238.7	2148.2	2057.6	1970.2	1942.1	1921.8
2643.1	7.5°	2585.3	2521.3	2398.0	2240.3	2059.2	1860.9	1722.0	1572.1	1514.3	1483.1
2730.5	10°	2657.1	2569.7	2382.3	2106.0	1812.5	1542.4	1344.2	1181.8	1119.4	1092.8
2825.7	12.5°	2736.7	2629.0	2354.2	1939.0	1542.4	1219.3	1025.7	950.8	941.4	941.4
2939.7	15°	2832.0	2700.8	2305.8	1742.3	1259.9	964.8	896.1	899.2	908.6	914.8
3050.5	17.5°	2930.3	2777.3	2229.3	1522.1	1010.1	868.0	869.6	874.3	882.1	888.3
3170.7	20°	3036.5	2853.8	2127.9	1288.0	866.4	839.9	844.6	849.3	855.5	858.6
3283.1	22.5°	3150.4	2925.6	2007.7	1058.5	818.1	816.5	818.1	822.7	830.5	830.5
3414.3	25°	3272.2	3005.3	1870.3	891.4	793.1	793.1	796.2	799.3	805.6	805.6
3540.7	27.5°	3397.1	3078.6	1725.1	804.0	771.2	769.7	769.7	774.3	777.5	779.0
3665.6	30°	3534.5	3164.5	1579.9	785.3	754.0	746.2	741.6	744.7	747.8	749.4
3796.8	32.5°	3675.0	3247.2	1450.3	793.1	736.9	722.8	707.2	704.1	704.1	710.3
3932.6	35°	3831.1	3337.8	1350.4	819.6	727.5	688.5	663.5	649.4	651.0	660.4
4094.9	37.5°	4018.4	3447.1	1277.0	843.0	721.3	649.4	608.9	591.7	580.8	591.7
4318.2	40°	4263.6	3607.9	1224.0	861.8	713.5	604.2	549.5	521.4	501.1	507.4
4664.8	42.5°	4624.2	3860.8	1203.7	863.3	696.3	551.1	488.6	451.2	421.5	423.1
5186.2	45°	5130.0	4260.4	1308.3	843.0	658.8	493.3	424.6	374.7	355.9	351.3
5965.2	47.5°	5823.2	4842.7	1550.2	800.9	604.2	437.1	362.2	320.0	306.0	298.2
6987.8	50°	6752.1	5590.5	1818.8	754.0	549.5	384.0	310.7	284.1	274.8	267.0
8200.8	52.5°	7829.3	6349.3	2038.9	707.2	494.9	337.2	277.9	262.3	254.5	248.2
9371.7	55°	8817.5	6872.3	2026.4	657.3	441.8	299.7	254.5	245.1	235.7	229.5
10380.2	57.5°	9432.6	6945.6	1670.5	602.6	380.9	270.1	232.6	226.4	215.4	207.6
11252.9	60°	9715.2	6527.2	1170.9	530.8	320.0	242.0	209.2	206.1	192.0	181.1
12078.8	62.5°	9766.7	5749.8	780.6	441.8	267.0	215.4	185.8	181.1	162.4	143.6
12750.1	65°	9557.5	4638.2	540.2	345.0	227.9	187.3	159.2	149.9	129.6	110.8
12909.3	67.5°	8895.5	3256.6	376.2	248.2	193.6	148.3	126.5	123.3	107.7	92.1
12097.5	70°	7682.5	1856.2	251.3	185.8	153.0	101.5	99.9	103.0	87.4	74.9
9883.8	72.5°	5890.3	849.3	156.1	135.8	104.6	68.7	79.6	81.2	67.1	56.2
6166.6	75°	3467.4	363.8	98.4	87.4	53.1	45.3	57.8	59.3	45.3	35.9
2254.3	77.5°	1180.2	137.4	62.4	51.5	26.5	25.0	37.5	37.5	25.0	14.1
452.7	80°	268.5	51.5	31.2	20.3	12.5	10.9	12.5	10.9	6.2	1.6
138.9	82.5°	76.5	20.3	12.5	7.8	4.7	4.7	1.6	0.0	0.0	0.0
48.4	85°	21.9	9.4	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
17.2	87.5°	9.4	1.6	0.0	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

180°
2505.7
2288.7
1931.2
1487.8
1092.8
941.4
914.8
888.3
860.2
833.7
807.1
780.6
752.5
715.0
665.1
588.6
504.3
416.8
345.0
293.5
265.4
246.7
226.4
206.1
178.0
134.3
104.6
87.4
68.7
50.0
31.2
10.9
0.0
0.0
0.0
0.0
0.0

F REPORT)