

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: P956168

Luminaire Tested: **GALN-SB8D-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956168
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-SB8D-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA 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: 38581 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

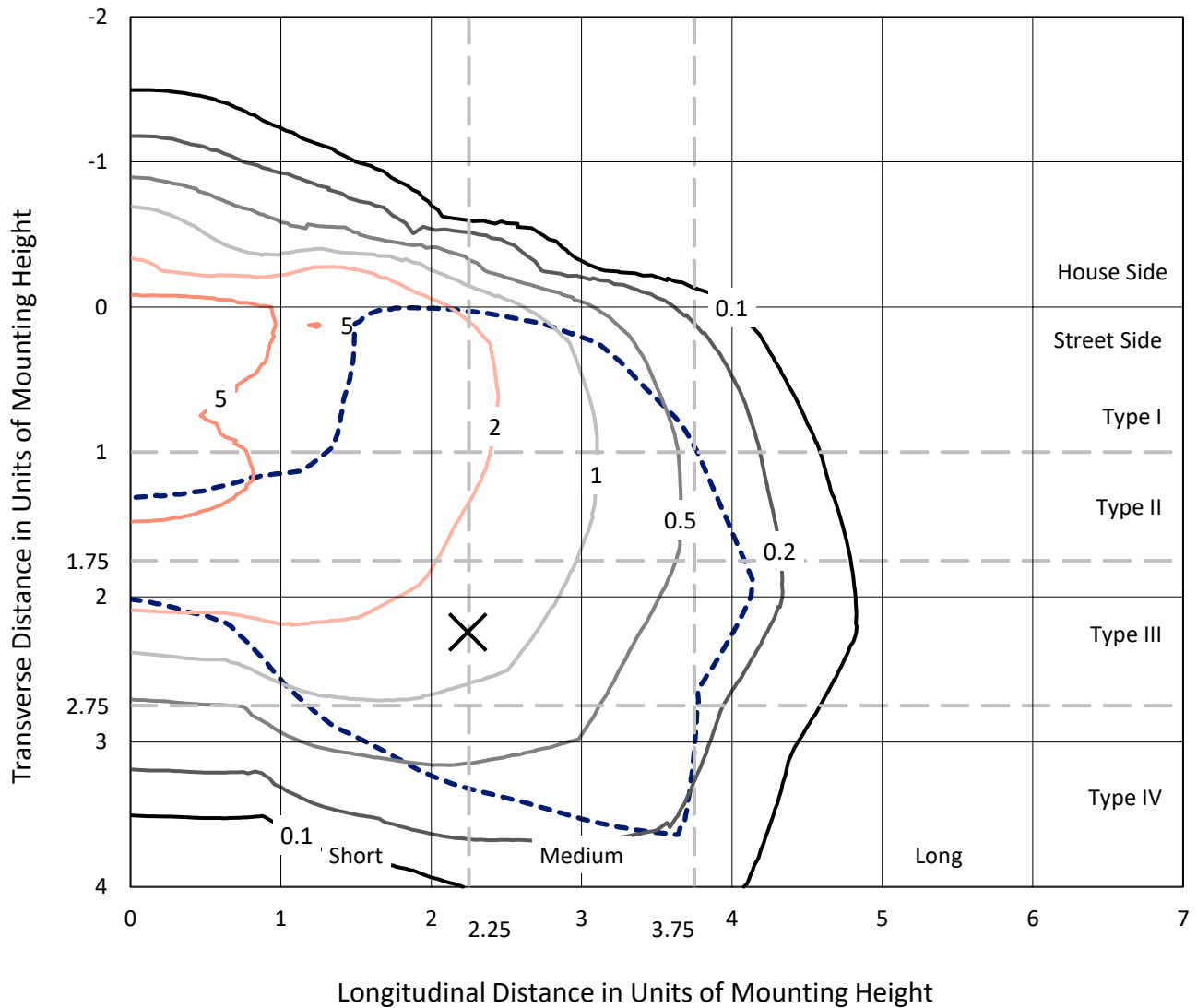
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956168
 CATALOG NUMBER: GALN-SB8D-927-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

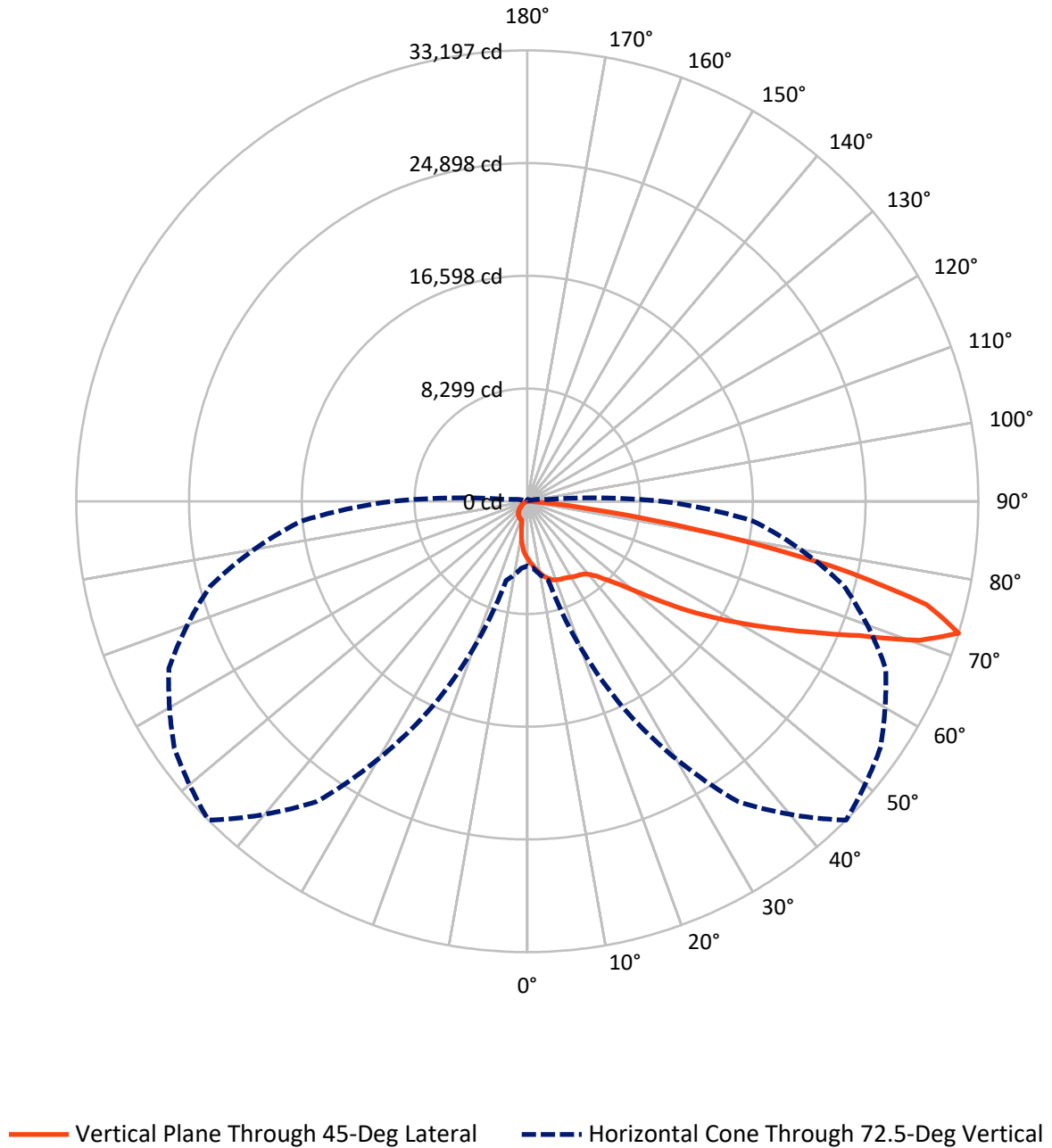
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P956168
CATALOG NUMBER: GALN-SB8D-927-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P956168
 CATALOG NUMBER: GALN-SB8D-927-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4053.8	0.0	4053.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	34527.2	0.0	34527.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	38581.0	0.0	38581.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	1.0
10°-20°	1163.9	3.0
20°-30°	1911.3	5.0
30°-40°	2710.6	7.0
40°-50°	4480.4	11.6
50°-60°	8048.4	20.9
60°-70°	11175.7	29.0
70°-80°	8106.5	21.0
80°-90°	586.1	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°	38581.0	100.0
0°-180°	38581.0	100.0



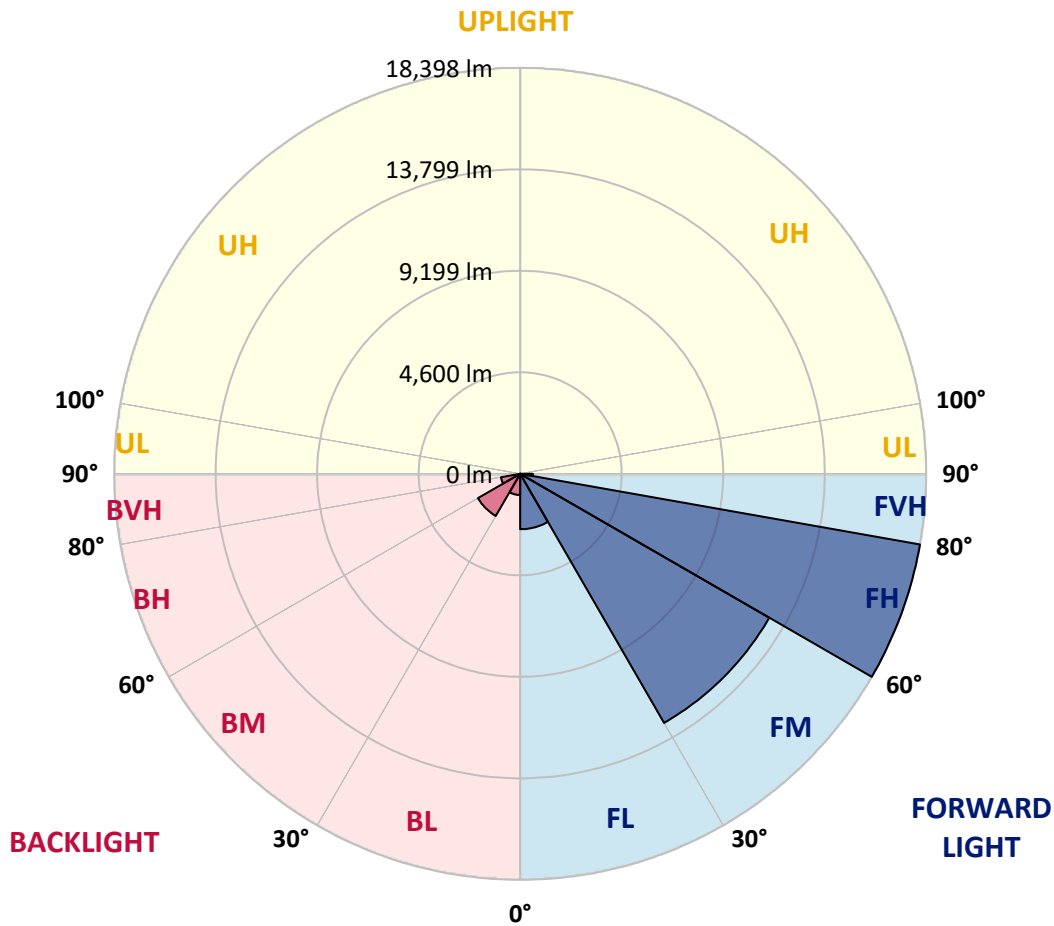
REPORT NUMBER: P956168
 CATALOG NUMBER: GALN-SB8D-927-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.2	6.5			
FM (30°-60°)	13034.7	33.8			
FH (60°-80°)	18398.2	47.7			G5
FVH (80°-90°)	581.1	1.5			G4/750
BL (0°-30°)	960.2	2.5	B2/1000		
BM (30°-60°)	2204.7	5.7	B2/2500		
BH (60°-80°)	884.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	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-G5

Type IV Short



REPORT NUMBER: P956168
 CATALOG NUMBER: GALN-SB8D-927-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6
2.5°	4616.4	4624.3	4619.0	4587.4	4534.7	4505.8	4490.0	4437.3	4403.1	4342.5
5°	5040.4	5072.0	5053.5	4990.3	4890.3	4819.1	4798.1	4690.1	4592.7	4479.4
7.5°	5490.7	5506.5	5472.2	5390.6	5256.3	5135.2	5116.7	4966.6	4811.2	4637.4
10°	5880.4	5898.8	5846.2	5727.7	5574.9	5424.8	5398.5	5232.6	5048.3	4834.9
12.5°	6207.0	6225.4	6156.9	6014.7	5846.2	5690.8	5664.5	5490.7	5287.9	5050.9
15°	6454.5	6488.7	6396.6	6243.8	6062.1	5906.7	5893.6	5722.4	5524.9	5261.6
17.5°	6599.3	6633.6	6546.7	6362.3	6207.0	6075.3	6059.5	5917.3	5732.9	5480.1
20°	6623.0	6654.6	6562.5	6401.8	6272.8	6167.5	6159.6	6056.9	5922.5	5680.3
22.5°	6551.9	6591.4	6507.2	6378.1	6288.6	6233.3	6222.8	6164.8	6088.5	5883.0
25°	6478.2	6509.8	6446.6	6333.4	6286.0	6280.7	6288.6	6278.1	6262.3	6088.5
27.5°	6472.9	6507.2	6436.1	6328.1	6301.8	6357.1	6365.0	6415.0	6428.2	6275.4
30°	6517.7	6541.4	6472.9	6359.7	6346.5	6472.9	6475.6	6565.1	6586.2	6433.4
32.5°	6615.1	6641.5	6573.0	6407.1	6388.7	6565.1	6573.0	6691.5	6725.7	6602.0
35°	6844.2	6875.8	6796.8	6538.8	6472.9	6652.0	6675.7	6815.3	6883.7	6781.0
37.5°	7415.7	7323.5	7215.6	6804.7	6665.2	6788.9	6828.4	6991.7	7112.9	6994.3
40°	8835.1	8545.4	8208.4	7257.7	7002.2	7081.3	7112.9	7276.1	7442.0	7326.2
42.5°	10965.5	10623.2	10080.7	8300.5	7510.5	7550.0	7573.7	7715.9	7950.3	7858.1
45°	12864.2	12740.5	12187.4	10080.7	8461.2	8266.3	8295.3	8369.0	8714.0	8679.7
47.5°	14323.1	14252.0	13825.4	12124.2	10067.5	9143.2	9224.9	9259.1	9756.8	9877.9
50°	15445.0	15418.6	15036.8	13941.3	12166.4	10436.2	10465.2	10391.5	11136.7	11436.9
52.5°	16503.6	16593.1	16311.4	15629.3	14407.4	12129.5	12124.2	11776.6	12782.6	13235.5
55°	17459.5	17491.1	17520.1	17351.6	16661.6	14057.2	14007.1	13438.3	14691.8	15160.6
57.5°	18357.5	18370.7	18628.8	18973.8	19008.0	16127.0	16034.9	15352.8	16777.5	17111.9
60°	18960.6	19021.2	19566.3	20524.8	20943.5	18262.7	18212.7	17517.5	18900.0	19055.4
62.5°	18091.6	18460.2	19834.9	21736.2	22771.1	20630.2	20606.5	19953.4	21133.2	21006.7
65°	14644.4	15268.5	17686.0	22555.2	24564.5	23274.1	23308.4	22613.1	23426.9	23016.0
67.5°	10244.0	10902.3	13762.2	22621.0	26568.5	26378.9	26576.4	25486.2	25862.8	24941.1
70°	7083.9	7423.6	9285.4	21204.3	28130.1	30655.6	30650.3	29015.0	28285.5	25818.0
72.5°	4763.8	4940.3	6030.5	16822.3	26982.0	33196.8	33044.1	31711.6	29101.9	24145.8
75°	2009.3	2138.3	2791.4	9454.0	21346.5	30371.2	29957.7	28024.8	25857.5	19013.3
77.5°	637.3	692.6	1100.8	3383.9	11758.2	22829.1	22391.9	17501.7	17330.5	9538.2
80°	302.8	352.9	618.9	1358.8	4626.9	12416.6	12356.0	7939.7	7455.2	2575.5
82.5°	131.7	155.4	342.3	726.8	2069.9	4429.4	4518.9	2701.9	2235.8	977.0
85°	42.1	55.3	158.0	334.4	874.3	1100.8	1087.6	642.6	900.6	531.9
87.5°	0.0	0.0	52.7	76.4	89.5	63.2	71.1	55.3	250.2	147.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956168
 CATALOG NUMBER: GALN-SB8D-927-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4226.6	0°	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6	4226.6
4279.3	2.5°	4247.7	4205.6	4131.8	4063.4	4002.8	3942.2	3905.4	3852.7	3847.4	3847.4
4347.8	5°	4276.7	4208.2	4076.5	3937.0	3776.3	3623.6	3470.8	3323.4	3276.0	3241.7
4458.4	7.5°	4360.9	4253.0	4044.9	3779.0	3473.5	3139.0	2904.7	2651.8	2554.4	2501.7
4605.8	10°	4482.1	4334.6	4018.6	3552.5	3057.4	2601.8	2267.4	1993.5	1888.2	1843.4
4766.5	12.5°	4616.4	4434.7	3971.2	3270.7	2601.8	2056.7	1730.2	1603.7	1587.9	1587.9
4958.7	15°	4777.0	4555.8	3889.6	2938.9	2125.2	1627.5	1511.6	1516.8	1532.6	1543.2
5145.7	17.5°	4942.9	4684.8	3760.5	2567.6	1703.8	1464.2	1466.8	1474.7	1487.9	1498.4
5348.5	20°	5122.0	4813.9	3589.3	2172.6	1461.5	1416.8	1424.7	1432.6	1443.1	1448.4
5538.1	22.5°	5314.2	4935.0	3386.6	1785.5	1379.9	1377.3	1379.9	1387.8	1401.0	1401.0
5759.3	25°	5519.6	5069.3	3154.8	1503.7	1337.8	1337.8	1343.0	1348.3	1358.8	1358.8
5972.6	27.5°	5730.3	5193.1	2909.9	1356.2	1300.9	1298.3	1298.3	1306.2	1311.4	1314.1
6183.3	30°	5962.1	5337.9	2665.0	1324.6	1271.9	1258.8	1250.9	1256.1	1261.4	1264.0
6404.5	32.5°	6199.1	5477.5	2446.4	1337.8	1243.0	1219.3	1192.9	1187.7	1187.7	1198.2
6633.6	35°	6462.4	5630.2	2277.9	1382.5	1227.2	1161.3	1119.2	1095.5	1098.1	1113.9
6907.4	37.5°	6778.4	5814.6	2154.1	1422.0	1216.6	1095.5	1027.0	998.1	979.6	998.1
7284.0	40°	7191.9	6085.8	2064.6	1453.6	1203.5	1019.1	927.0	879.6	845.3	855.9
7868.6	42.5°	7800.2	6512.4	2030.4	1456.3	1174.5	929.6	824.3	761.1	711.0	713.7
8748.2	45°	8653.4	7186.6	2206.8	1422.0	1111.3	832.2	716.3	632.0	600.4	592.5
10062.3	47.5°	9822.6	8168.9	2615.0	1350.9	1019.1	737.4	611.0	539.9	516.1	503.0
11787.2	50°	11389.5	9430.3	3067.9	1271.9	927.0	647.8	524.0	479.3	463.5	450.3
13833.3	52.5°	13206.6	10710.1	3439.2	1192.9	834.8	568.8	468.7	442.4	429.2	418.7
15808.4	55°	14873.5	11592.3	3418.2	1108.7	745.3	505.6	429.2	413.4	397.6	387.1
17509.6	57.5°	15911.1	11716.1	2817.8	1016.5	642.6	455.6	392.4	381.8	363.4	350.2
18981.7	60°	16387.7	11010.3	1975.1	895.4	539.9	408.2	352.9	347.6	323.9	305.5
20374.7	62.5°	16474.6	9698.9	1316.7	745.3	450.3	363.4	313.4	305.5	273.9	242.3
21507.1	65°	16121.8	7823.9	911.2	582.0	384.5	316.0	268.6	252.8	218.6	187.0
21775.7	67.5°	15005.2	5493.3	634.7	418.7	326.5	250.2	213.3	208.0	181.7	155.4
20406.3	70°	12959.0	3131.1	424.0	313.4	258.1	171.2	168.5	173.8	147.5	126.4
16672.1	72.5°	9935.9	1432.6	263.3	229.1	176.4	115.9	134.3	136.9	113.2	94.8
10402.0	75°	5848.8	613.6	165.9	147.5	89.5	76.4	97.4	100.1	76.4	60.6
3802.7	77.5°	1990.9	231.7	105.3	86.9	44.8	42.1	63.2	63.2	42.1	23.7
763.7	80°	452.9	86.9	52.7	34.2	21.1	18.4	21.1	18.4	10.5	2.6
234.4	82.5°	129.0	34.2	21.1	13.2	7.9	7.9	2.6	0.0	0.0	0.0
81.6	85°	36.9	15.8	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0
29.0	87.5°	15.8	2.6	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°
4226.6
3860.6
3257.5
2509.6
1843.4
1587.9
1543.2
1498.4
1451.0
1406.2
1361.5
1316.7
1269.3
1206.1
1121.8
992.8
850.6
703.1
582.0
495.1
447.7
416.1
381.8
347.6
300.2
226.5
176.4
147.5
115.9
84.3
52.7
18.4
0.0
0.0
0.0
0.0
0.0

F REPORT)