

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: P941244

Luminaire Tested: **GALN-SB4C-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15882 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

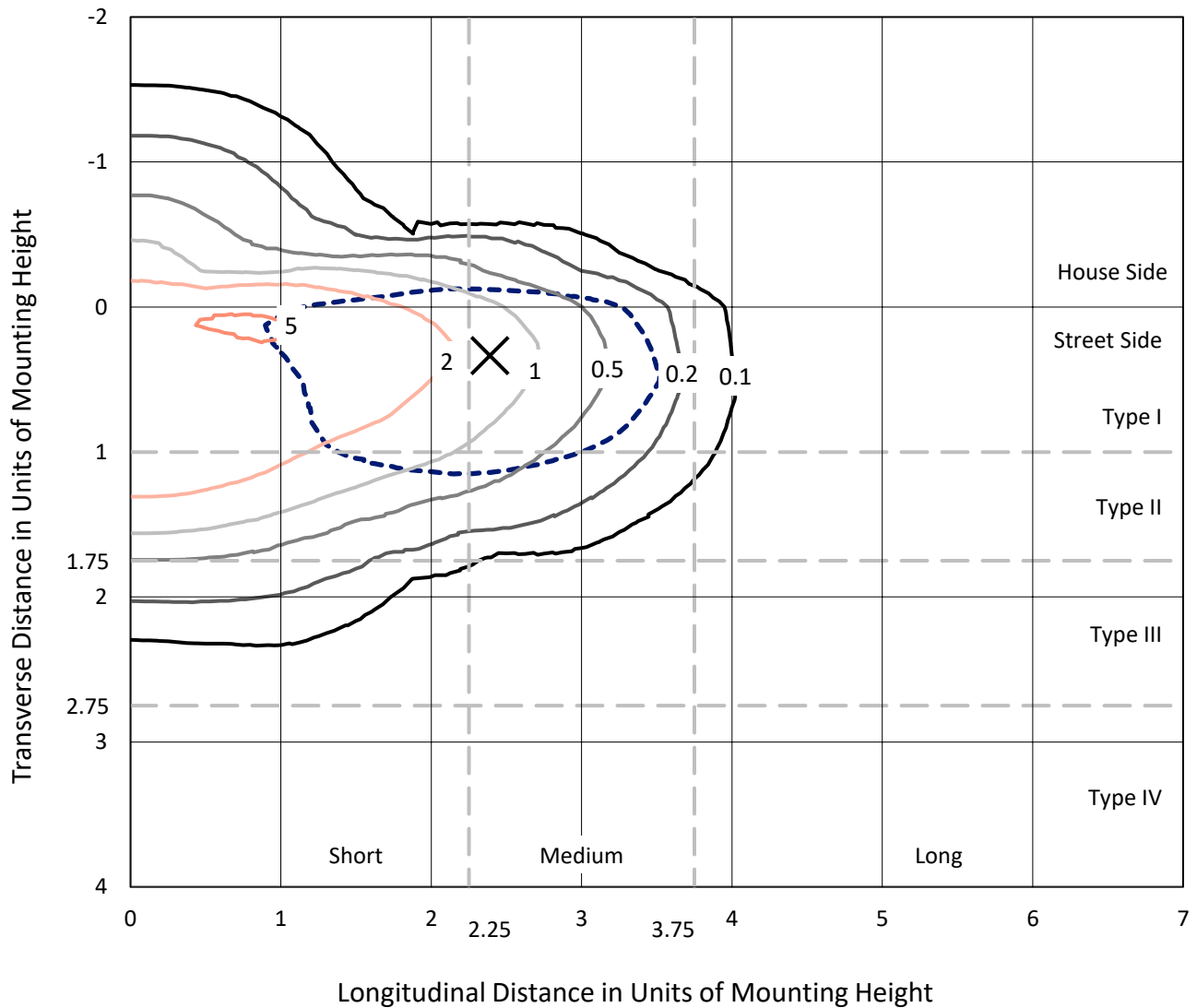
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941244
 CATALOG NUMBER: GALN-SB4C-940-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

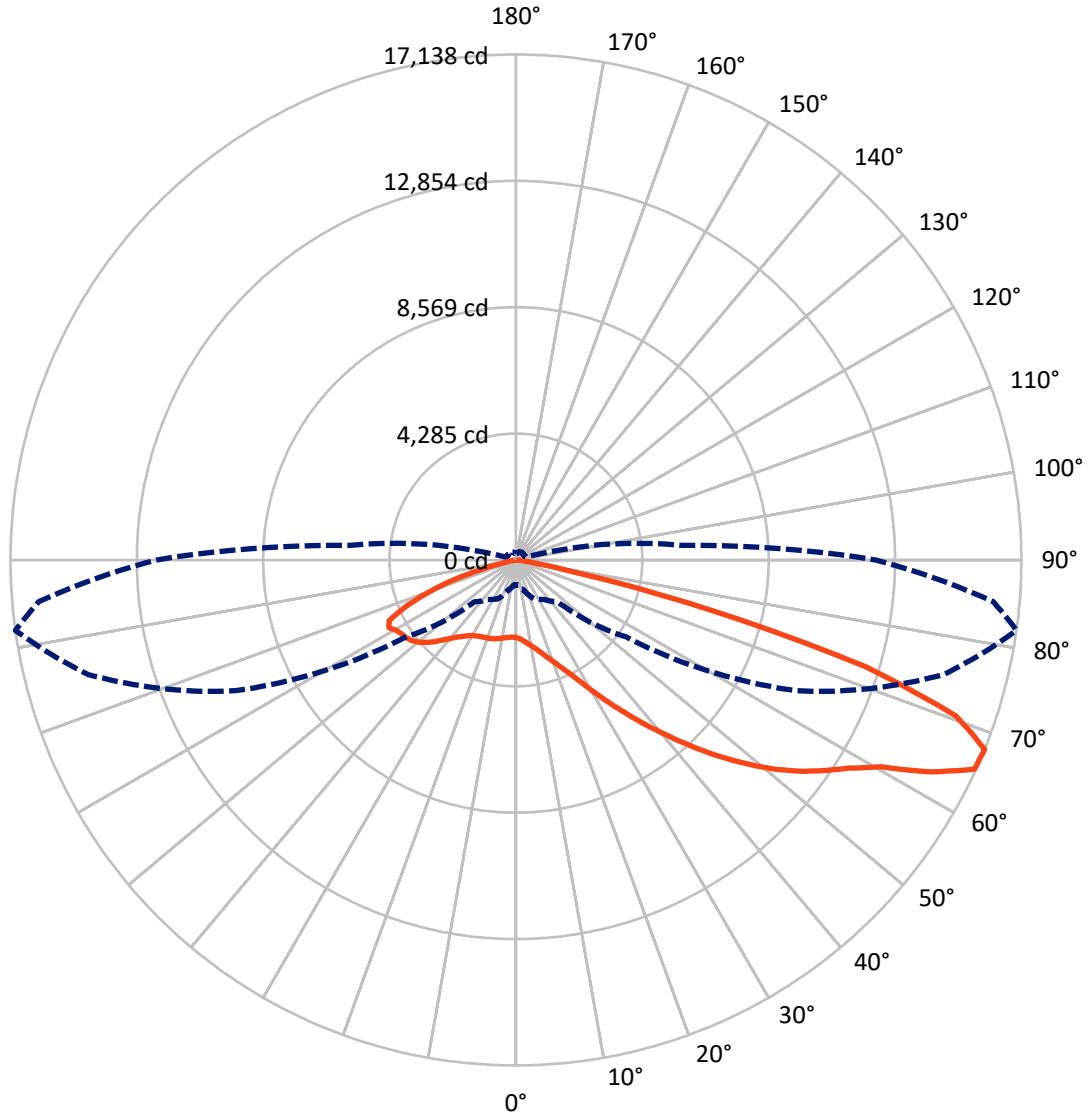
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P941244
CATALOG NUMBER: GALN-SB4C-940-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P941244

CATALOG NUMBER: GALN-SB4C-940-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2876.9	0.0	2876.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13005.1	0.0	13005.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	15882.0	0.0	15882.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	1.5
10°-20°	609.1	3.8
20°-30°	975.7	6.1
30°-40°	1725.3	10.9
40°-50°	3022.8	19.0
50°-60°	4031.6	25.4
60°-70°	3753.2	23.6
70°-80°	1440.5	9.1
80°-90°	89.5	0.6
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°	15882.0	100.0
0°-180°	15882.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941244

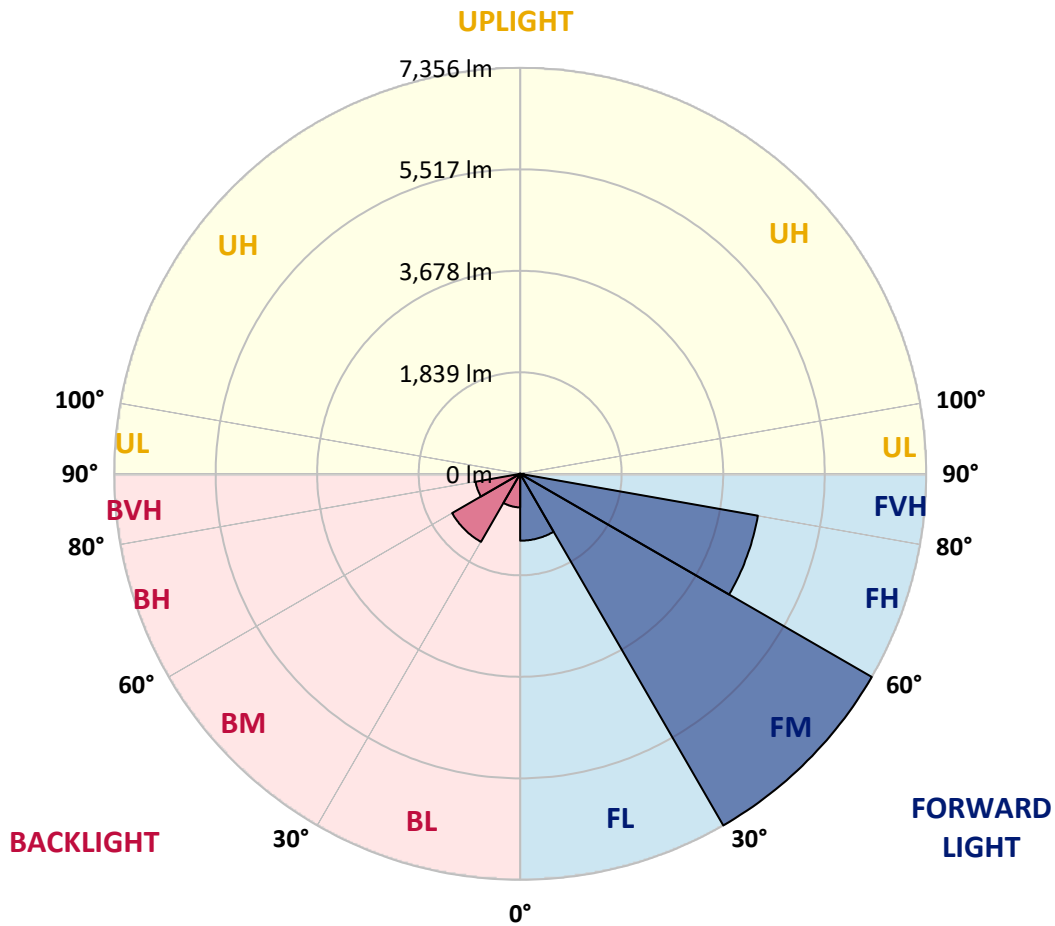
CATALOG NUMBER: GALN-SB4C-940-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.6	7.6			
FM (30°-60°)	7355.9	46.3			
FH (60°-80°)	4372.6	27.5			G2/5000
FVH (80°-90°)	65.0	0.4			G1/100
BL (0°-30°)	607.6	3.8	B2/1000		
BM (30°-60°)	1423.8	9.0	B2/2500		
BH (60°-80°)	821.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P941244

CATALOG NUMBER: GALN-SB4C-940-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	2780.9	2796.9	2787.8	2783.2	2775.2	2763.8	2754.6	2726.0	2696.3	2676.8
5°	2836.9	2852.9	2851.8	2856.4	2862.1	2865.5	2863.2	2831.2	2788.9	2755.7
7.5°	2788.9	2807.2	2822.1	2844.9	2885.0	2927.3	2947.8	2941.0	2897.5	2851.8
10°	2652.8	2672.3	2707.7	2761.5	2846.1	2937.6	3014.2	3049.6	3022.2	2971.9
12.5°	2403.6	2423.0	2492.8	2609.4	2751.2	2910.1	3056.5	3151.4	3158.2	3107.9
15°	2123.4	2142.9	2217.2	2363.5	2579.7	2834.6	3079.3	3258.9	3319.5	3276.0
17.5°	1949.6	1966.8	2022.8	2140.6	2365.8	2683.7	3071.3	3373.2	3511.6	3477.3
20°	1897.0	1911.9	1938.2	2020.5	2208.0	2527.1	3018.7	3480.7	3718.5	3699.1
22.5°	1953.0	1966.8	1974.8	2011.4	2129.1	2424.1	2952.4	3590.5	3958.7	3961.0
25°	2082.2	2096.0	2086.8	2109.7	2161.1	2392.1	2927.3	3719.7	4260.5	4285.7
27.5°	2294.9	2296.1	2274.3	2273.2	2281.2	2440.2	2953.6	3858.0	4641.3	4688.2
30°	2721.4	2704.3	2620.8	2530.5	2489.3	2584.2	3026.7	4021.6	5090.7	5174.2
32.5°	3378.9	3353.8	3200.6	2984.4	2767.2	2816.4	3158.2	4207.9	5580.1	5731.0
35°	4092.5	4085.6	3925.5	3604.2	3224.6	3146.8	3372.1	4452.6	6114.1	6354.2
37.5°	4755.7	4752.2	4660.8	4282.3	3820.3	3607.6	3715.1	4772.8	6685.8	7033.4
40°	5361.7	5372.0	5280.5	4942.1	4476.7	4198.8	4181.6	5168.5	7321.6	7773.3
42.5°	5885.4	5896.8	5804.2	5553.8	5125.0	4852.9	4754.5	5653.3	7942.5	8568.0
45°	6241.0	6311.9	6298.2	6098.1	5790.5	5508.1	5442.9	6261.6	8650.3	9410.7
47.5°	6341.6	6406.8	6509.7	6537.2	6349.7	6071.8	6149.5	6994.6	9366.1	10254.6
50°	6093.5	6154.1	6367.9	6652.7	6783.0	6697.3	6836.8	7780.1	10099.1	11096.2
52.5°	5604.1	5665.9	5935.7	6386.2	6918.0	7187.8	7526.3	8554.3	10809.2	11893.2
55°	4896.3	4961.5	5308.0	5817.9	6660.7	7390.2	8101.4	9327.2	11459.8	12610.1
57.5°	3933.5	3981.5	4341.7	5055.3	6013.5	7189.0	8525.7	10171.1	12072.7	13314.5
60°	2563.6	2606.0	3024.5	3820.3	4940.9	6516.6	8610.3	11112.2	12886.8	14230.4
62.5°	1704.9	1733.5	1981.6	2565.9	3479.6	5225.6	8115.2	11863.4	14080.6	15824.4
65°	1169.8	1198.3	1446.5	1853.6	2248.0	3456.7	6691.5	11764.0	15162.3	17090.2
67.5°	834.7	858.7	1069.1	1453.3	1627.1	2007.9	4536.1	10492.4	15006.8	17138.2
70°	598.0	611.8	785.6	1132.0	1293.3	1206.4	2522.5	8024.8	13139.5	15825.5
72.5°	418.5	423.1	545.4	862.2	1041.7	880.5	1200.6	5350.3	9937.8	12421.4
75°	283.6	289.3	367.1	632.3	835.9	672.4	635.8	2869.0	5834.0	6875.6
77.5°	173.8	176.1	236.7	432.2	625.5	512.3	409.4	1215.5	2257.2	2216.0
80°	98.3	98.3	150.9	268.7	426.5	330.5	287.0	516.8	714.7	627.8
82.5°	54.9	56.0	109.8	166.9	282.4	195.5	157.8	239.0	308.7	273.3
85°	22.9	25.2	67.5	78.9	134.9	97.2	64.0	100.6	114.3	101.8
87.5°	2.3	3.4	20.6	14.9	16.0	19.4	9.1	19.4	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941244
 CATALOG NUMBER: GALN-SB4C-940-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2631.1	0°	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1
2670.0	2.5°	2648.3	2631.1	2587.7	2537.3	2471.0	2439.0	2395.6	2365.8	2340.7	2343.0
2736.3	5°	2699.7	2656.3	2559.1	2437.9	2286.9	2179.4	2065.1	1986.2	1922.2	1908.4
2827.8	7.5°	2770.6	2702.0	2531.6	2313.2	2058.2	1865.0	1692.3	1581.4	1502.5	1477.4
2938.7	10°	2862.1	2762.6	2496.2	2156.6	1789.5	1543.7	1358.4	1271.5	1217.8	1199.5
3069.1	12.5°	2968.4	2832.4	2449.3	1965.6	1512.8	1276.1	1158.3	1114.9	1097.7	1092.0
3229.1	15°	3102.2	2919.3	2378.4	1739.2	1278.4	1112.6	1062.3	1056.6	1058.8	1056.6
3421.2	17.5°	3261.2	3014.2	2262.9	1505.9	1120.6	1029.1	1010.8	1015.4	1021.1	1020.0
3636.2	20°	3435.0	3107.9	2115.4	1299.0	1013.1	969.7	959.4	963.9	968.5	966.2
3884.3	22.5°	3632.8	3208.6	1951.9	1137.7	941.1	914.8	903.3	904.5	904.5	899.9
4198.8	25°	3869.5	3319.5	1780.4	1023.4	886.2	865.6	851.9	847.3	840.4	826.7
4580.7	27.5°	4151.9	3437.3	1615.7	943.4	842.7	823.3	807.3	795.9	778.7	755.8
5039.2	30°	4469.8	3580.2	1476.2	893.0	808.4	789.0	770.7	753.5	728.4	699.8
5566.4	32.5°	4843.7	3733.4	1374.4	859.9	777.6	757.0	735.2	714.7	687.2	658.6
6158.7	35°	5289.7	3918.7	1315.0	837.0	753.5	726.1	702.1	679.2	658.6	633.5
6802.5	37.5°	5773.3	4115.3	1296.7	825.6	737.5	695.2	667.8	651.8	649.5	634.6
7498.8	40°	6302.8	4348.6	1310.4	818.7	720.4	665.5	635.8	632.3	638.1	611.8
8243.2	42.5°	6863.1	4625.3	1333.3	810.7	696.4	635.8	607.2	607.2	602.6	566.0
9029.9	45°	7469.1	4944.3	1356.1	791.3	667.8	606.0	584.3	576.3	556.9	521.4
9821.2	47.5°	8079.7	5269.1	1373.3	755.8	633.5	580.9	561.4	543.1	514.6	482.5
10597.6	50°	8659.5	5560.7	1355.0	703.2	594.6	556.9	536.3	511.1	480.3	458.5
11332.9	52.5°	9177.4	5813.4	1277.2	641.5	553.4	531.7	513.4	487.1	462.0	439.1
11996.1	55°	9628.0	6018.0	1140.0	583.2	516.8	510.0	491.7	458.5	424.2	404.8
12653.6	57.5°	10060.2	6173.6	968.5	535.1	483.7	486.0	458.5	428.8	396.8	376.2
13539.8	60°	10635.4	6381.7	794.7	490.5	448.2	455.1	425.4	403.6	363.6	337.3
15059.4	62.5°	11554.7	6705.3	631.2	435.7	407.1	409.4	396.8	370.5	322.5	291.6
16185.7	65°	12284.2	6586.4	497.4	376.2	360.2	363.6	363.6	335.0	283.6	248.1
16246.3	67.5°	12201.9	5639.6	396.8	317.9	315.6	317.9	325.9	301.9	251.6	223.0
15009.1	70°	11240.2	4485.8	317.9	264.1	274.4	268.7	291.6	275.6	226.4	197.8
11635.9	72.5°	9171.7	3231.4	242.4	218.4	210.4	219.5	263.0	248.1	188.7	156.7
6163.3	75°	5359.4	1724.3	180.7	172.7	152.1	183.0	233.3	211.5	144.1	115.5
1889.0	77.5°	1744.9	601.5	132.6	126.9	113.2	147.5	199.0	178.4	117.8	91.5
553.4	80°	467.7	181.8	90.3	83.5	73.2	109.8	157.8	141.8	84.6	59.5
237.8	82.5°	187.5	76.6	52.6	46.9	40.0	75.5	124.6	114.3	62.9	37.7
74.3	85°	60.6	25.2	19.4	14.9	18.3	46.9	74.3	77.8	44.6	19.4
11.4	87.5°	8.0	3.4	3.4	4.6	3.4	8.0	22.9	21.7	12.6	2.3
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>
2631.1
2320.1
1877.6
1452.2
1185.8
1088.6
1055.4
1017.7
965.1
897.6
824.4
753.5
697.5
659.8
631.2
633.5
612.9
566.0
520.3
481.4
455.1
436.8
402.5
373.9
333.9
289.3
244.7
218.4
194.4
153.2
112.1
88.0
58.3
37.7
14.9
0.0
0.0

F REPORT)