

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: STREETWORKS

Report Number: P852714

Luminaire Tested: **GLAN-SB5D-840-U-T4FT-HSS**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5D-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

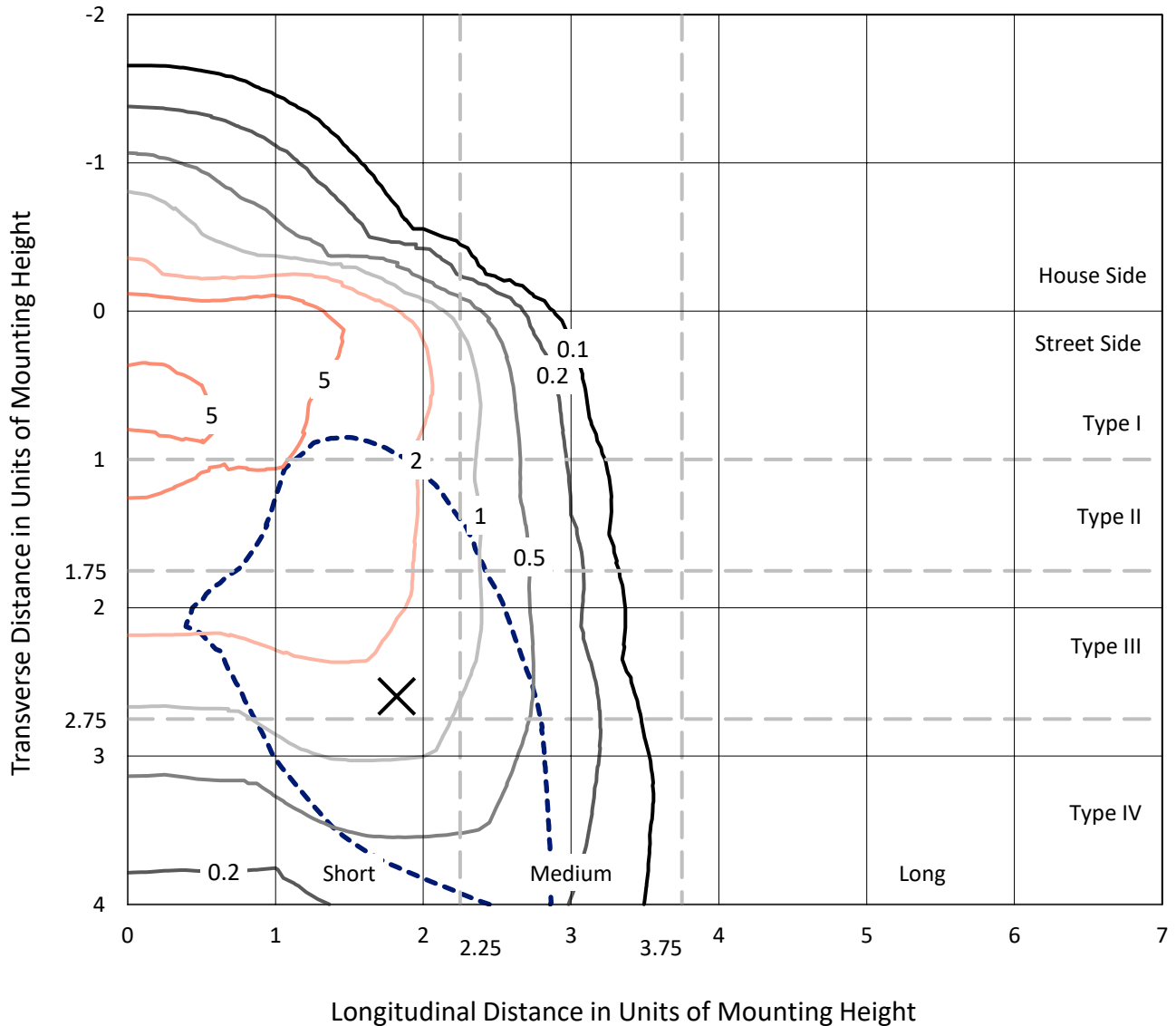
Lumens per Lamp: N/A  
Luminaire Lumens: 34612 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P852714  
 CATALOG NUMBER: GLAN-SB5D-840-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

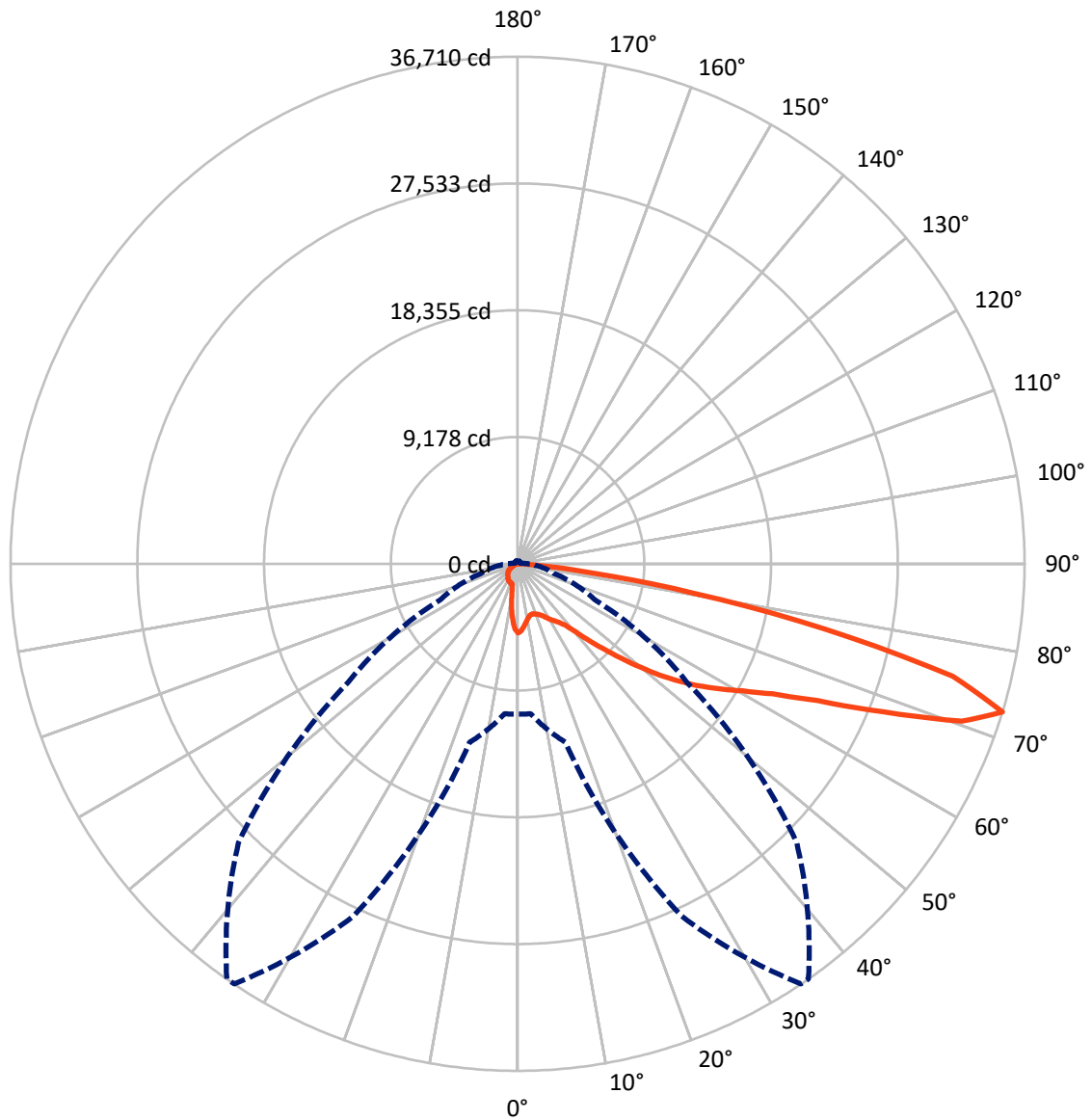
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P852714  
CATALOG NUMBER: GLAN-SB5D-840-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P852714  
 CATALOG NUMBER: GLAN-SB5D-840-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3895.4	0.0	3895.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	30716.6	0.0	30716.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	34612.0	0.0	34612.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	412.2	1.2
10°-20°	964.3	2.8
20°-30°	1566.5	4.5
30°-40°	2613.7	7.6
40°-50°	4945.3	14.3
50°-60°	7858.0	22.7
60°-70°	9720.9	28.1
70°-80°	6042.6	17.5
80°-90°	488.3	1.4
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°	34612.0	100.0
0°-180°	34612.0	100.0

**Coefficient of Utilization**



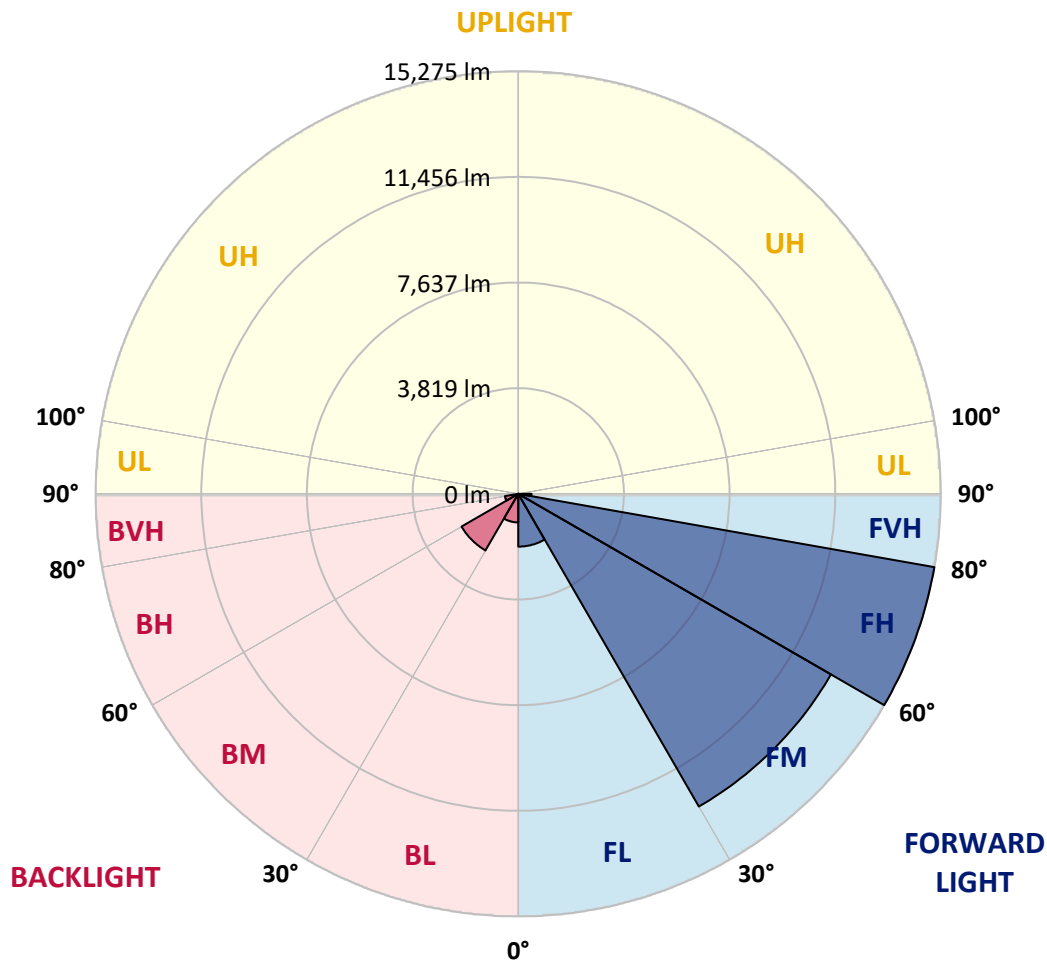
REPORT NUMBER: P852714  
 CATALOG NUMBER: GLAN-SB5D-840-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.0	5.5			
FM (30°-60°)	13052.2	37.7			
FH (60°-80°)	15274.7	44.1			G5
FVH (80°-90°)	481.7	1.4			G3/500
BL (0°-30°)	1035.1	3.0	B3/2500		
BM (30°-60°)	2364.9	6.8	B2/2500		
BH (60°-80°)	488.8	1.4	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



REPORT NUMBER: P852714  
 CATALOG NUMBER: GLAN-SB5D-840-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4
2.5°	4793.3	4833.8	4841.4	4854.1	4854.1	4869.3	4894.7	4930.2	4988.5	5019.0
5°	4417.9	4448.3	4486.4	4516.8	4575.2	4582.8	4681.7	4778.0	4912.5	5013.9
7.5°	4040.0	4075.5	4126.3	4199.8	4275.9	4298.7	4448.3	4610.7	4823.7	5013.9
10°	3773.7	3776.3	3821.9	3895.5	4017.2	4045.1	4227.7	4458.5	4724.8	4983.5
12.5°	3624.1	3641.9	3662.2	3717.9	3834.6	3852.4	4047.6	4319.0	4625.9	4965.7
15°	3624.1	3636.8	3649.5	3677.4	3771.2	3786.4	3958.9	4230.2	4575.2	4973.3
17.5°	3662.2	3682.4	3672.3	3705.3	3804.2	3814.3	3966.5	4204.9	4572.6	5021.5
20°	3753.5	3768.7	3748.4	3768.7	3867.6	3887.9	4045.1	4253.1	4615.7	5105.2
22.5°	3898.0	3905.6	3857.4	3872.7	3974.1	3999.5	4182.1	4390.0	4719.7	5239.6
25°	4080.6	4095.8	4022.3	4040.0	4136.4	4166.8	4377.3	4595.4	4884.6	5424.8
27.5°	4291.1	4298.7	4235.3	4232.8	4357.0	4400.2	4613.2	4849.1	5105.2	5658.1
30°	4532.0	4554.9	4494.0	4483.9	4641.1	4676.6	4887.1	5161.0	5429.8	6008.1
32.5°	4722.2	4740.0	4704.5	4729.9	4889.6	4917.5	5219.3	5602.3	5939.6	6505.1
35°	4996.2	5006.3	4925.1	4970.8	5153.4	5224.4	5673.3	6221.1	6581.2	7129.0
37.5°	5987.8	5987.8	5642.9	5417.1	5592.1	5655.5	6294.6	6999.7	7372.5	7965.9
40°	7359.8	7337.0	6832.3	6370.7	6347.9	6472.2	7179.7	7981.2	8394.5	8970.2
42.5°	8823.2	8787.6	8100.4	7643.9	7567.8	7610.9	8201.8	9190.9	9611.9	10195.2
45°	10121.6	10111.5	9482.5	8868.8	8731.9	8868.8	9477.5	10606.0	10907.8	11521.6
47.5°	11209.6	11209.6	10750.6	10349.9	10278.9	10360.0	11204.6	12175.9	12148.0	12934.2
50°	12462.5	12452.3	12016.1	11843.7	11917.2	12031.3	13192.9	13829.4	13431.3	14321.5
52.5°	13340.0	13400.8	13251.2	13223.3	13598.7	13796.5	15211.6	15447.5	14580.1	15637.7
55°	14034.9	14105.9	14278.3	14473.6	15196.4	15455.1	17167.0	16981.8	15541.3	16778.9
57.5°	15018.9	14917.4	15183.7	15569.2	16738.4	17050.3	19061.5	18430.0	16314.8	17704.6
60°	16213.4	16228.6	16274.3	16761.2	18277.8	18678.5	20928.0	19799.5	16811.9	18272.7
62.5°	17648.8	17671.7	17765.5	18513.7	20344.7	20722.6	22916.4	20920.4	17040.2	18112.9
65°	17549.9	17646.3	18693.7	21252.7	23487.0	23859.8	25236.9	21706.6	16695.3	16652.1
67.5°	15987.7	16144.9	17897.4	24524.3	28224.4	28640.4	28041.8	21861.3	15206.6	12949.4
70°	13938.5	13994.3	16101.8	27466.1	33710.1	34131.1	30552.6	20159.6	11539.3	7222.9
72.5°	10885.0	10897.7	13370.4	28148.4	36687.5	36710.3	28582.0	14965.6	6205.9	2774.5
75°	7775.7	7699.7	8955.0	22827.6	32277.2	32535.8	21427.7	7020.0	2371.3	1311.2
77.5°	4169.4	4253.1	5067.2	13537.8	22297.5	22738.8	11691.5	2023.8	1207.2	892.7
80°	1288.3	1359.4	2077.1	6198.3	12629.9	12896.2	4334.2	900.3	842.0	636.6
82.5°	405.8	421.0	968.8	2604.6	5242.2	5363.9	1255.4	509.8	575.7	421.0
85°	116.7	119.2	431.1	971.3	1296.0	1321.3	352.5	197.8	329.7	261.2
87.5°	12.7	40.6	162.3	162.3	114.1	111.6	38.0	43.1	93.8	33.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P852714  
 CATALOG NUMBER: GLAN-SB5D-840-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5016.4	0°	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4	5016.4
5039.3	2.5°	5026.6	5029.1	4996.2	4940.4	4879.5	4828.8	4765.4	4714.6	4679.1	4669.0
5084.9	5°	5062.1	5044.3	4950.5	4780.6	4577.7	4402.7	4207.4	4052.7	3951.3	3908.2
5133.1	7.5°	5115.3	5064.6	4859.2	4524.4	4136.4	3791.5	3441.5	3170.1	2997.7	2911.5
5178.8	10°	5161.0	5059.6	4707.0	4154.2	3560.7	3038.3	2566.6	2239.4	2056.8	1970.6
5232.0	12.5°	5204.1	5057.0	4509.2	3715.4	2911.5	2272.4	1833.6	1671.3	1620.6	1602.8
5318.2	15°	5285.3	5064.6	4260.7	3213.3	2264.8	1717.0	1557.2	1554.6	1564.8	1559.7
5450.1	17.5°	5396.9	5072.2	3979.2	2680.7	1747.4	1514.1	1506.5	1529.3	1544.5	1536.9
5615.0	20°	5541.4	5102.7	3679.9	2153.2	1501.4	1463.3	1481.1	1501.4	1514.1	1501.4
5835.6	22.5°	5744.3	5155.9	3352.7	1729.6	1422.8	1432.9	1448.1	1470.9	1483.6	1465.9
6117.1	25°	5992.8	5239.6	3030.7	1503.9	1384.7	1397.4	1420.2	1445.6	1460.8	1443.1
6472.2	27.5°	6314.9	5374.0	2733.9	1453.2	1346.7	1354.3	1387.3	1425.3	1445.6	1422.8
6976.9	30°	6781.6	5594.7	2477.8	1476.0	1323.9	1306.1	1351.8	1405.0	1427.8	1407.5
7664.1	32.5°	7400.4	5906.6	2320.5	1511.5	1313.7	1250.3	1293.4	1361.9	1399.9	1387.3
8561.9	35°	8211.9	6380.9	2259.7	1552.1	1306.1	1192.0	1222.4	1296.0	1361.9	1374.6
9693.0	37.5°	9196.0	7040.3	2277.4	1569.9	1283.3	1143.8	1159.0	1222.4	1308.6	1349.2
10966.2	40°	10314.4	7808.7	2378.9	1552.1	1257.9	1103.2	1105.7	1153.9	1230.0	1290.9
12335.7	42.5°	11468.3	8706.5	2566.6	1486.2	1235.1	1067.7	1060.1	1093.1	1143.8	1186.9
13702.6	45°	12566.5	9629.6	2751.7	1394.9	1207.2	1032.2	1014.4	1027.1	1037.3	1055.0
15034.1	47.5°	13525.1	10278.9	2698.4	1311.2	1169.1	991.6	961.2	956.1	925.7	923.1
16223.5	50°	14187.0	10420.9	2396.6	1227.5	1113.4	946.0	897.8	867.4	814.1	788.7
17113.7	52.5°	14397.5	9860.4	1957.9	1143.8	1022.1	885.1	816.6	768.4	702.5	679.7
17626.0	55°	14118.6	8762.3	1564.8	1042.3	895.2	803.9	727.9	664.5	611.2	583.3
17681.8	57.5°	13436.3	7364.9	1237.6	923.1	760.8	712.6	636.6	573.2	527.5	499.6
17063.0	60°	12305.2	5848.3	978.9	781.1	649.2	613.7	535.1	494.5	454.0	421.0
15465.2	62.5°	10588.3	4174.4	768.4	618.8	542.7	502.2	456.5	426.1	377.9	332.2
12591.8	65°	8262.7	2553.9	593.5	454.0	436.2	415.9	388.0	360.1	301.8	256.1
8214.5	67.5°	5211.7	1209.7	423.5	342.4	344.9	334.8	322.1	299.3	256.1	215.6
3679.9	70°	2295.2	585.8	279.0	261.2	256.1	256.1	266.3	258.7	218.1	180.1
1278.2	72.5°	781.1	314.5	208.0	197.8	185.1	182.6	223.2	215.6	175.0	139.5
636.6	75°	408.3	210.5	152.2	142.0	111.6	134.4	177.5	167.4	124.3	91.3
421.0	77.5°	266.3	149.6	104.0	91.3	63.4	88.8	131.9	116.7	73.5	45.7
276.4	80°	167.4	98.9	60.9	43.1	30.4	48.2	71.0	50.7	27.9	10.1
162.3	82.5°	88.8	50.7	22.8	15.2	12.7	15.2	17.8	12.7	5.1	0.0
83.7	85°	35.5	17.8	7.6	5.1	2.5	0.0	5.1	2.5	0.0	0.0
15.2	87.5°	12.7	2.5	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°
5016.4
4686.7
3923.4
2924.1
1973.1
1597.8
1557.2
1534.4
1498.8
1463.3
1440.5
1422.8
1405.0
1387.3
1374.6
1359.4
1311.2
1204.7
1065.2
920.6
791.3
677.1
583.3
494.5
413.4
324.6
248.5
210.5
172.5
131.9
83.7
40.6
7.6
0.0
0.0
0.0
0.0

F REPORT)