

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: P299702

Luminaire Tested: **GAA-AF-02-LED-U-SL2-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-02-LED-U-SL2-7030-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5838.6 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 66  
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: 28.75 FT

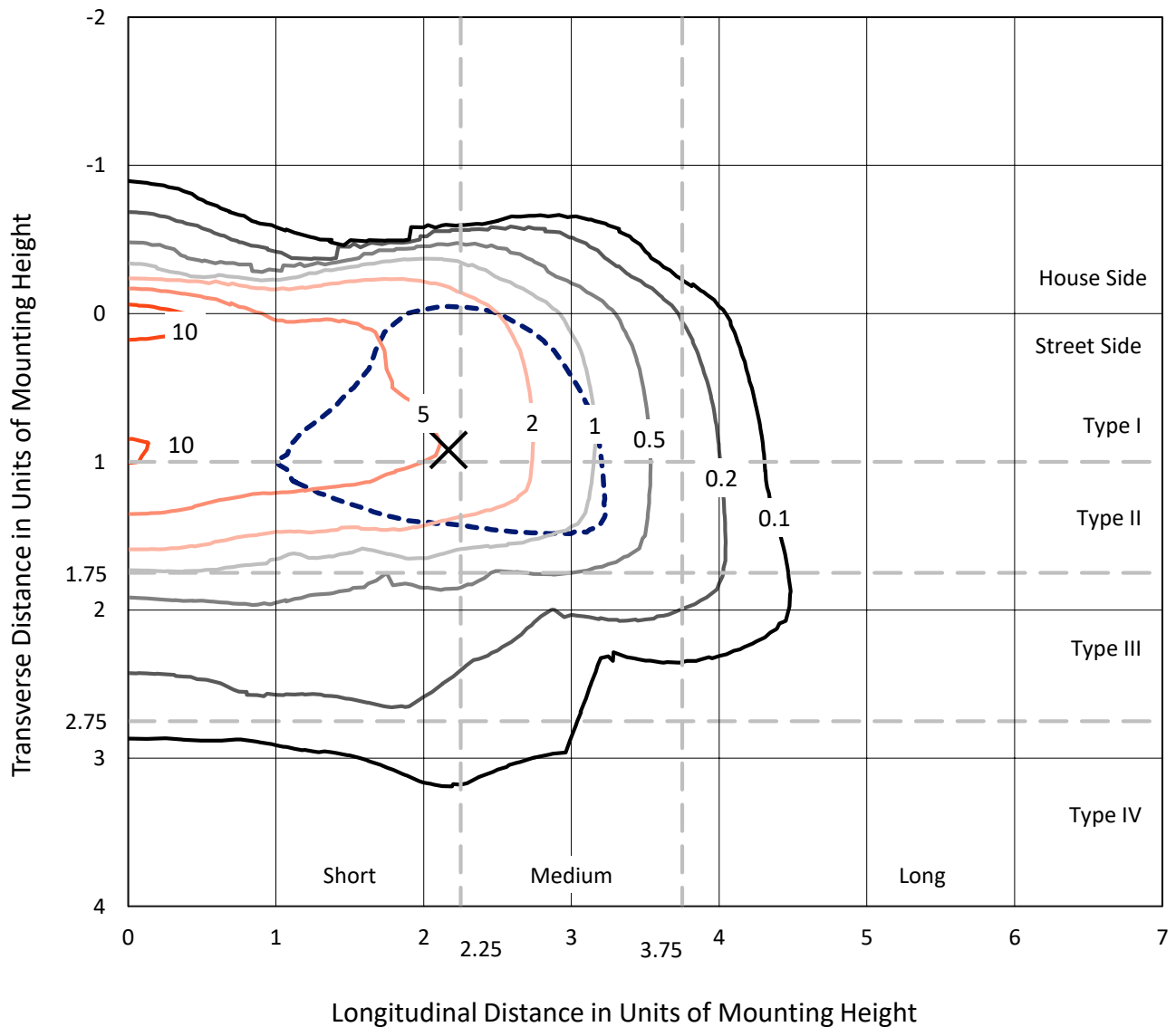


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

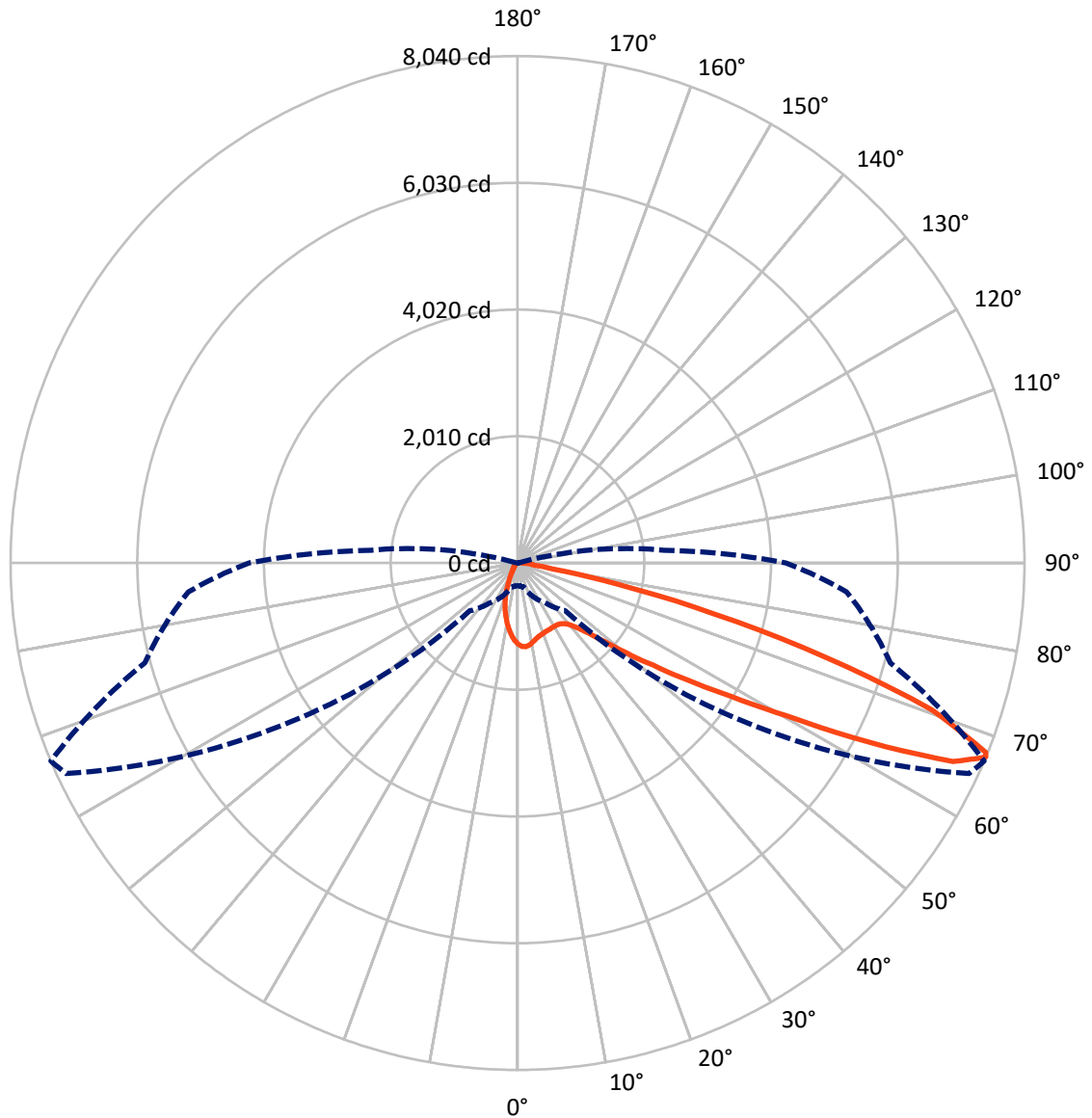


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	606.2	0.0	606.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	5232.4	0.0	5232.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	5838.6	0.0	5838.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	1.8
10°-20°	223.0	3.8
20°-30°	324.2	5.6
30°-40°	505.8	8.7
40°-50°	896.0	15.3
50°-60°	1417.8	24.3
60°-70°	1623.9	27.8
70°-80°	673.6	11.5
80°-90°	69.6	1.2
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°	5838.6	100.0
0°-180°	5838.6	100.0

**Coefficient of Utilization**



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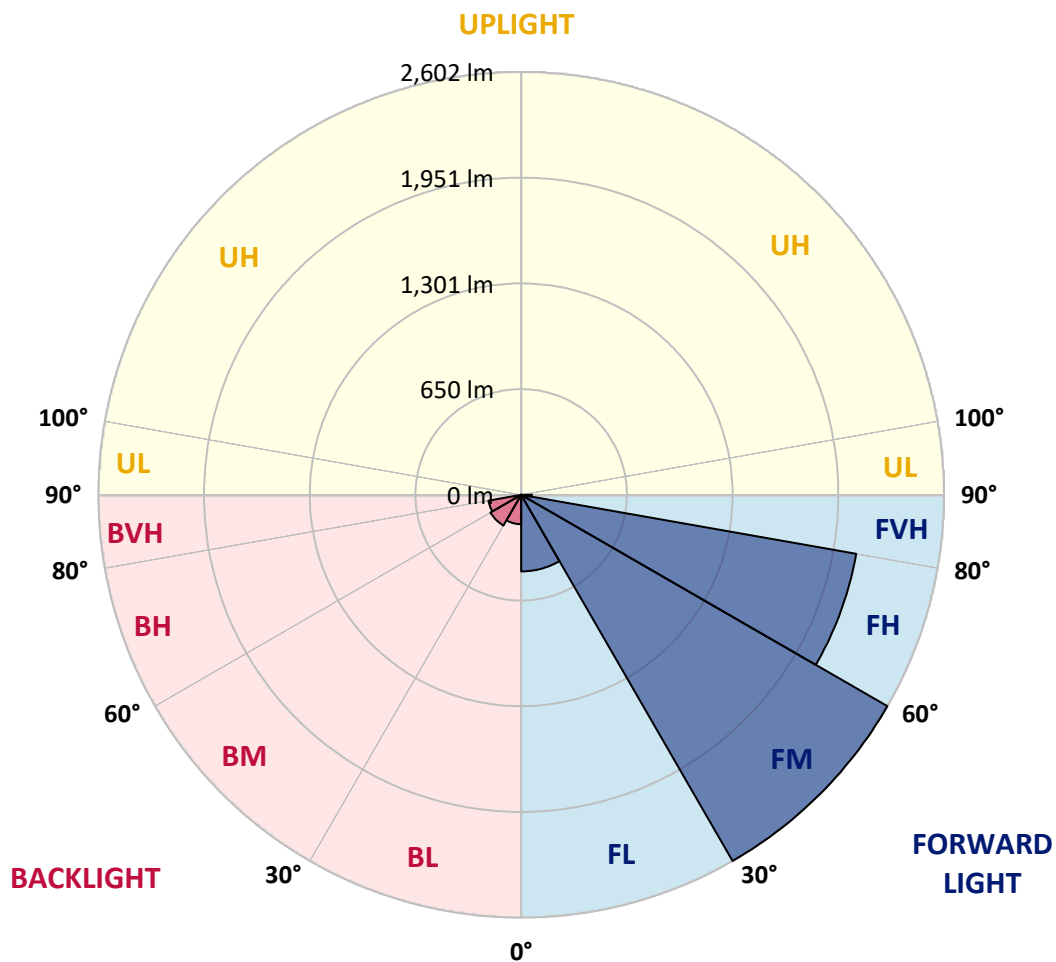
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.1	8.1			
FM (30°-60°)	2601.7	44.6			
FH (60°-80°)	2093.2	35.9			G2/5000
FVH (80°-90°)	66.4	1.1			G1/100
BL (0°-30°)	180.9	3.1	B1/500		
BM (30°-60°)	217.9	3.7	B0/220		
BH (60°-80°)	204.3	3.5	B1/500		G1/500
BVH (80°-90°)	3.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6
2.5°	1331.2	1333.9	1333.6	1335.6	1340.4	1340.8	1336.0	1326.8	1324.8	1312.8	1292.1
5°	1227.7	1235.5	1240.3	1259.7	1281.5	1307.7	1327.5	1334.6	1333.6	1325.1	1293.8
7.5°	1109.5	1117.4	1122.8	1145.6	1174.6	1219.5	1270.9	1313.2	1316.9	1326.1	1292.4
10°	1030.9	1032.2	1039.7	1061.5	1091.8	1137.8	1199.1	1273.0	1284.2	1317.9	1289.0
12.5°	966.1	967.2	977.0	1000.5	1032.9	1079.2	1143.6	1229.1	1246.4	1307.7	1288.3
15°	920.2	923.9	932.8	957.3	991.7	1037.7	1103.7	1196.7	1217.5	1304.0	1294.4
17.5°	904.8	908.9	911.7	929.4	960.7	1005.7	1073.4	1175.6	1199.1	1306.0	1306.4
20°	920.9	923.9	917.8	922.2	941.6	981.8	1047.9	1157.5	1185.5	1308.4	1321.7
22.5°	980.5	981.8	965.1	945.7	942.3	964.4	1027.8	1143.2	1173.2	1314.9	1339.7
25°	1082.6	1080.2	1053.0	1011.1	971.6	961.4	1015.9	1134.4	1167.1	1321.7	1358.5
27.5°	1205.9	1209.3	1171.8	1110.9	1035.6	981.8	1014.2	1130.6	1164.4	1326.5	1374.8
30°	1355.7	1360.5	1317.6	1241.0	1133.0	1032.2	1029.8	1130.0	1162.6	1323.4	1376.2
32.5°	1508.7	1514.4	1480.7	1401.7	1263.1	1116.7	1065.3	1137.4	1166.1	1312.8	1368.3
35°	1668.7	1676.9	1654.4	1586.6	1439.5	1238.6	1127.6	1160.3	1182.1	1311.8	1360.5
37.5°	1889.7	1897.2	1855.0	1783.1	1653.0	1402.1	1227.7	1203.2	1219.9	1328.2	1362.6
40°	2219.7	2218.7	2109.7	1999.7	1887.7	1609.8	1368.3	1280.8	1289.3	1377.5	1387.8
42.5°	2579.3	2577.6	2416.6	2249.4	2148.2	1865.5	1553.3	1415.0	1409.2	1468.5	1453.1
45°	2856.6	2856.2	2724.8	2536.4	2461.9	2159.1	1792.3	1601.6	1592.8	1616.3	1573.7
47.5°	2974.7	2976.8	2910.7	2778.2	2809.6	2556.2	2093.7	1872.0	1858.7	1849.2	1784.5
50°	2882.8	2886.9	2892.3	2866.4	3064.6	3089.8	2498.0	2253.1	2246.6	2204.1	2102.9
52.5°	2582.4	2603.2	2667.2	2749.3	3153.2	3602.0	3131.7	2726.5	2691.7	2646.4	2535.1
55°	2076.4	2099.2	2220.7	2420.0	3021.4	3938.5	4019.9	3336.7	3278.8	3143.6	2982.9
57.5°	1374.1	1409.5	1586.0	1839.3	2638.6	3992.6	4906.0	4183.7	3982.1	3611.9	3430.7
60°	757.0	791.1	982.5	1212.0	1905.7	3725.0	5502.0	5286.4	4930.2	4135.3	3974.6
62.5°	466.2	484.6	625.9	839.5	1142.9	2940.0	5625.3	6672.1	6259.7	4809.3	4631.5
65°	371.2	379.0	448.2	686.2	819.4	1748.7	5227.1	7728.5	7590.9	5625.3	5219.7
67°	360.3	363.4	396.1	589.2	772.4	1072.1	4379.2	7900.5	8040.1	6119.1	5238.0
67.5°	362.7	366.1	397.1	562.3	771.0	985.2	4087.0	7832.7	8009.1	6158.2	5156.7
70°	349.7	360.3	454.6	561.9	733.2	818.7	2447.6	6786.5	6970.1	5722.0	4375.4
72.5°	124.0	124.6	196.5	454.6	797.2	827.5	1229.1	4975.1	5111.0	4377.1	3154.5
75°	73.6	62.7	65.4	129.4	761.8	803.7	709.0	3179.1	3229.8	2508.2	1597.5
77.5°	50.7	44.3	45.6	57.2	290.2	792.5	563.3	1657.8	1603.7	879.6	340.2
80°	28.9	25.5	27.2	50.1	105.6	739.3	531.3	672.3	573.2	149.2	94.0
82.5°	15.3	12.9	15.7	41.2	73.6	460.8	532.3	324.9	257.5	50.4	64.0
85°	5.4	4.4	7.5	28.3	49.0	141.3	493.5	273.1	214.5	24.5	48.7
87.5°	1.0	1.0	3.1	11.6	19.8	43.3	291.9	162.1	108.6	14.6	33.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6	1287.6
2.5°	1283.5	1268.9	1249.1	1225.0	1196.4	1171.2	1152.4	1133.0	1128.9	1122.1	1121.1
5°	1275.0	1249.8	1200.8	1144.6	1084.7	1030.5	986.6	947.4	930.1	915.1	913.4
7.5°	1262.4	1224.6	1141.2	1050.6	957.0	871.8	799.6	748.5	701.5	679.1	675.7
10°	1247.8	1193.6	1074.1	948.4	819.0	698.8	591.5	501.6	447.1	414.8	410.7
12.5°	1234.2	1163.3	1005.7	842.5	670.5	509.8	371.9	286.1	228.9	205.7	203.0
15°	1227.7	1138.8	941.6	734.2	515.3	324.5	203.3	157.3	138.6	133.2	132.8
17.5°	1227.0	1118.0	879.0	622.2	361.0	188.7	132.5	120.9	117.2	115.8	115.8
20°	1226.7	1098.3	816.3	506.1	229.2	125.7	110.3	107.6	104.9	103.2	103.2
22.5°	1230.4	1080.6	750.9	387.5	144.4	101.8	97.1	94.3	90.9	88.5	88.2
25°	1234.2	1067.0	684.2	275.8	104.5	88.5	83.8	80.0	75.3	72.2	71.9
27.5°	1234.8	1049.9	612.7	184.6	87.5	77.3	71.2	65.4	59.9	56.9	56.5
30°	1224.6	1021.3	533.3	124.6	77.3	67.1	58.9	52.8	47.7	45.3	45.3
32.5°	1204.5	985.9	446.1	94.0	68.8	57.6	48.7	42.9	39.5	38.5	38.1
35°	1186.5	947.8	356.6	79.7	61.6	48.7	39.8	36.1	34.1	33.7	33.4
37.5°	1175.9	917.1	272.4	72.2	54.8	40.9	33.7	31.0	30.0	29.3	29.6
40°	1184.1	891.6	201.3	66.1	48.0	34.1	28.6	27.2	26.2	25.9	25.9
42.5°	1219.9	887.1	149.5	60.6	41.5	28.3	24.9	23.8	23.2	22.8	23.2
45°	1313.9	914.4	116.1	55.5	35.1	23.8	21.1	20.8	20.4	20.4	20.4
47.5°	1455.2	970.6	96.7	49.7	29.3	20.4	18.4	18.0	17.7	18.0	18.0
50°	1694.6	1073.4	86.5	43.9	24.2	17.4	15.7	15.7	15.7	15.7	16.0
52.5°	2058.6	1275.7	79.7	38.1	19.8	14.6	13.3	13.3	13.6	13.6	14.0
55°	2464.2	1544.1	73.6	32.4	16.7	12.3	10.9	11.2	11.6	11.9	11.9
57.5°	2904.2	1841.4	68.5	26.6	14.3	9.9	9.2	9.5	9.9	10.6	10.6
60°	3435.2	2163.2	61.0	20.8	11.9	7.8	7.2	7.8	8.9	9.5	9.9
62.5°	4018.2	2474.5	51.4	16.3	9.9	6.1	5.8	7.2	8.5	9.2	9.5
65°	4416.6	2572.2	39.5	13.3	7.5	4.4	4.8	6.5	8.2	9.2	9.2
67°	4255.2	2332.1	32.4	11.2	6.1	3.4	4.4	6.5	8.2	8.9	9.2
67.5°	4143.2	2238.1	31.0	10.9	5.8	3.4	4.4	6.5	8.2	9.2	9.2
70°	3371.1	1681.3	25.9	8.2	4.8	3.1	3.7	6.1	7.8	8.9	8.9
72.5°	2342.3	1036.6	23.2	5.8	4.1	2.7	3.4	5.8	7.5	8.5	8.9
75°	1113.6	375.3	19.8	4.4	3.7	2.4	3.1	5.8	7.5	8.5	8.5
77.5°	227.1	87.2	16.0	3.7	3.1	2.4	2.7	5.4	7.2	8.2	8.2
80°	74.6	33.7	11.9	3.4	3.1	2.4	2.7	5.1	7.2	7.8	8.2
82.5°	53.8	17.0	7.8	3.4	3.1	2.4	2.4	5.1	6.8	7.8	7.8
85°	41.2	11.9	5.1	3.4	3.1	2.4	2.4	4.8	6.5	7.5	7.5
87.5°	27.2	4.8	4.1	3.4	3.1	2.4	2.4	4.8	6.1	7.2	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)