

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: P321615

Luminaire Tested: **GAN-SA1D-740-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6248 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

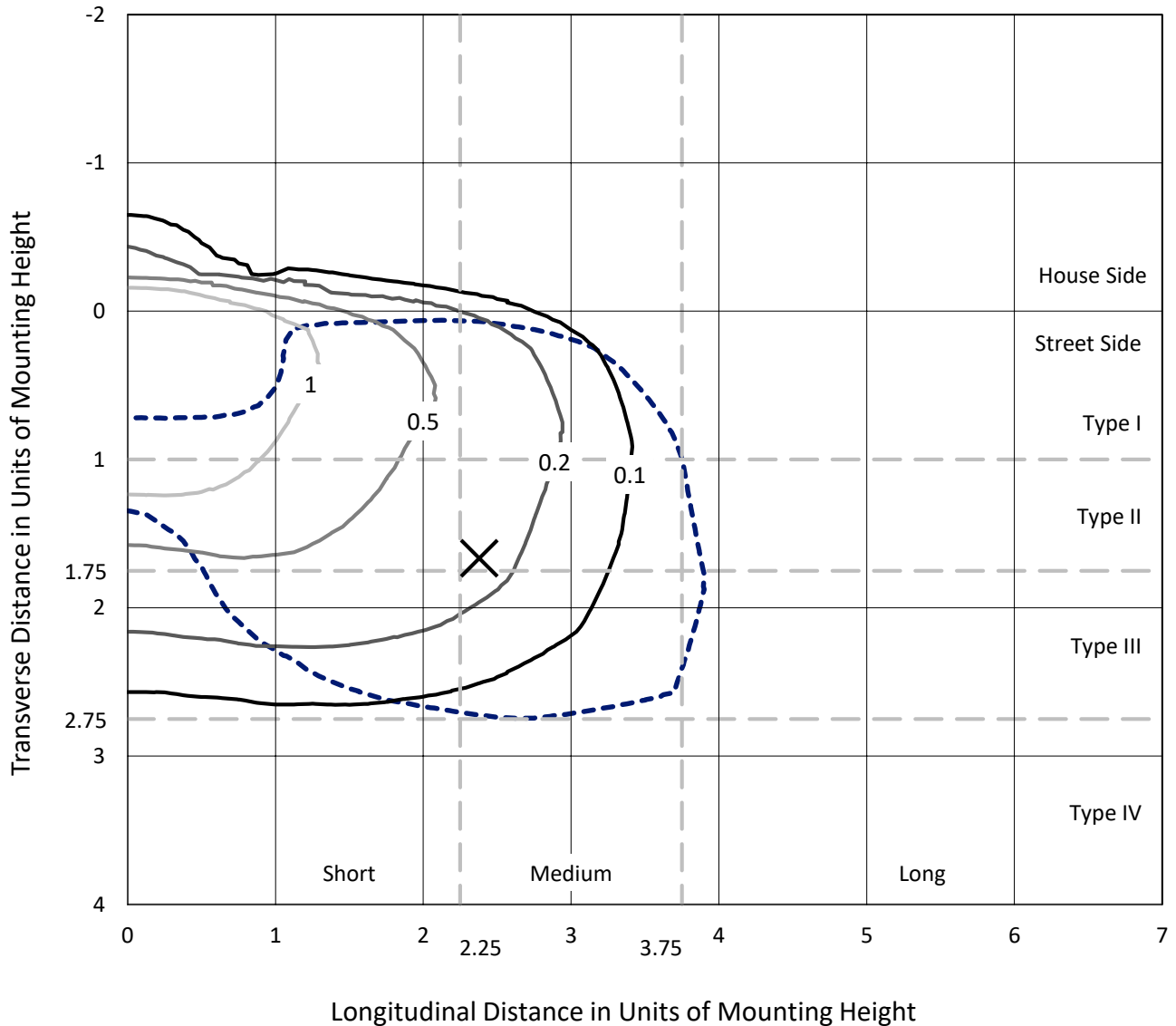
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

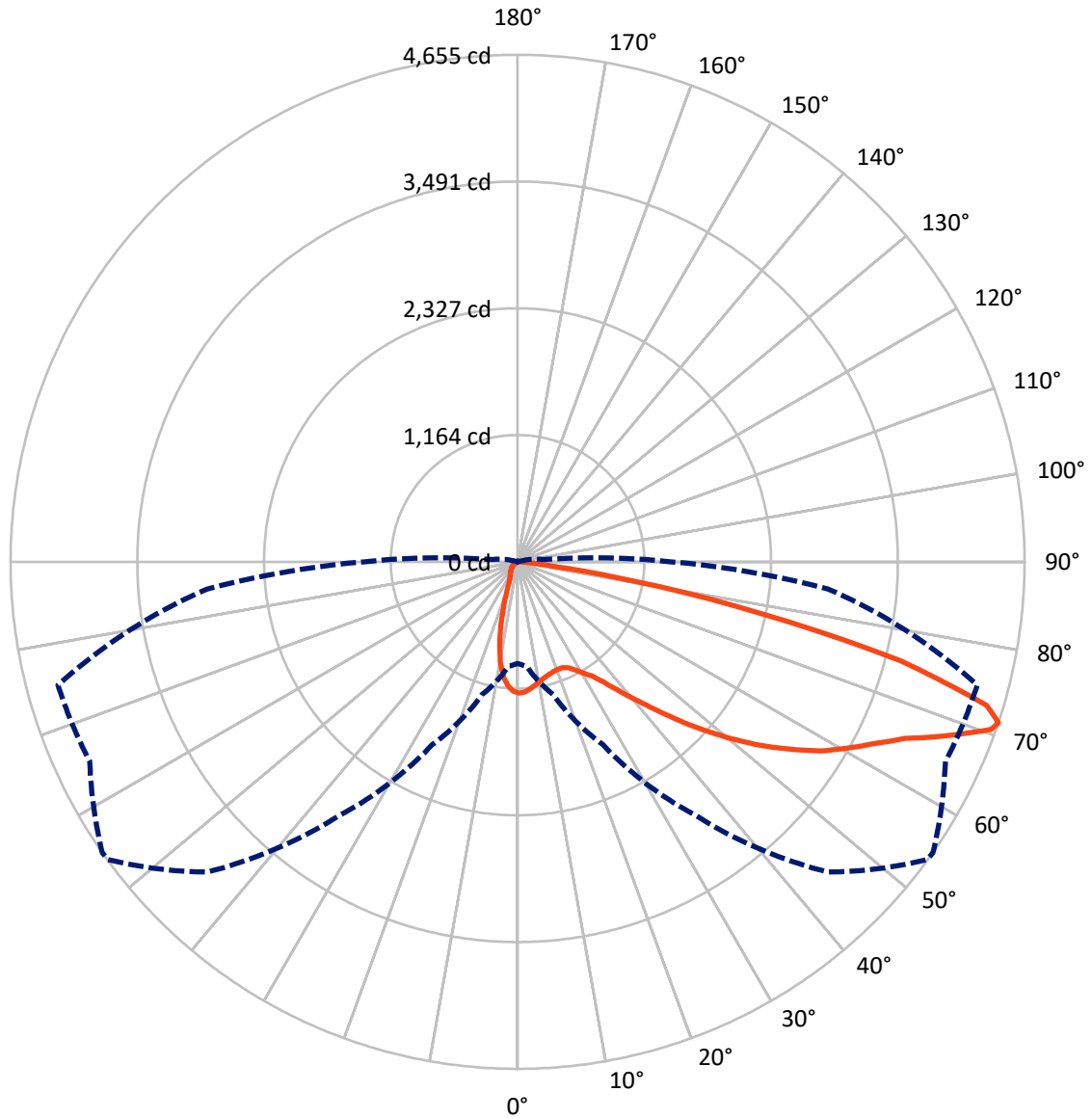
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	494.7	0.0	494.7
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	5753.3	0.0	5753.3
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	6248.0	0.0	6248.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	1.6
10°-20°	231.9	3.7
20°-30°	372.7	6.0
30°-40°	633.3	10.1
40°-50°	983.0	15.7
50°-60°	1321.5	21.2
60°-70°	1616.7	25.9
70°-80°	945.2	15.1
80°-90°	40.9	0.7
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°	6248.0	100.0
0°-180°	6248.0	100.0

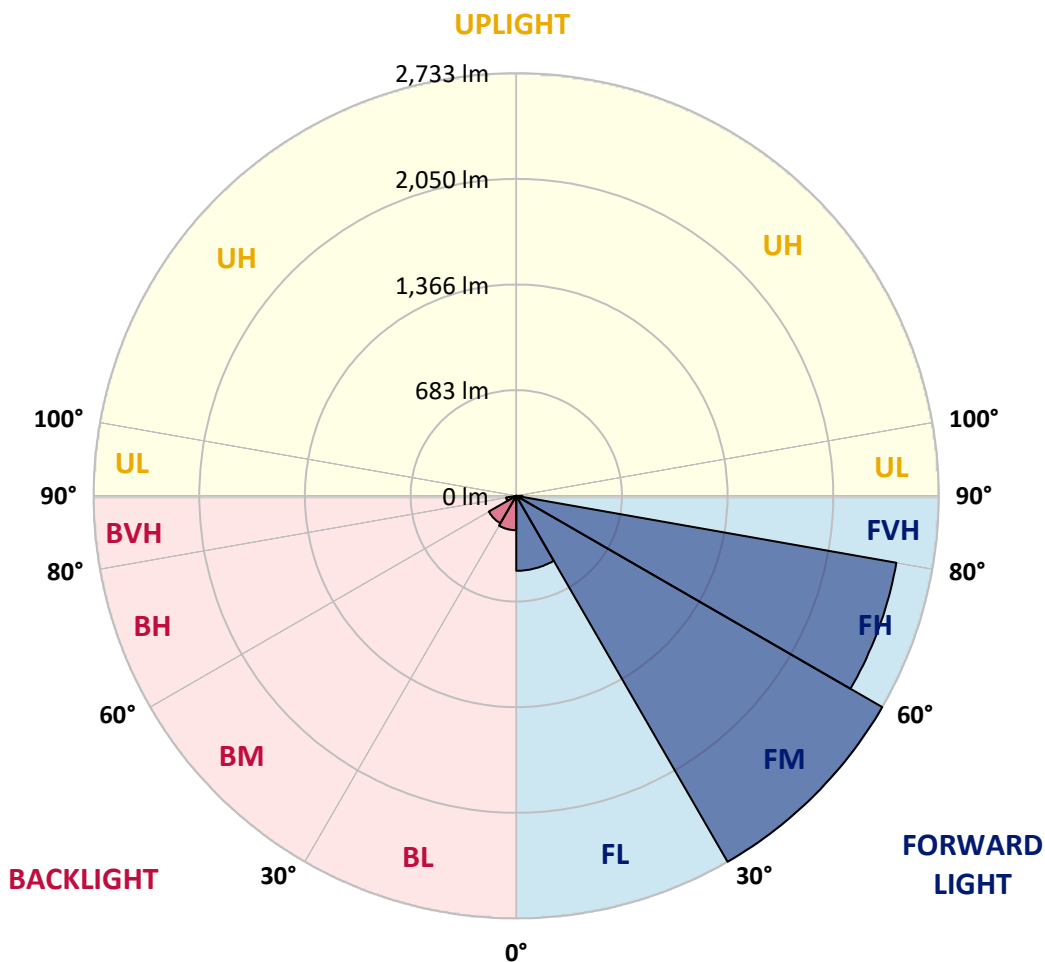


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.8	7.8			
FM (30°-60°)	2732.7	43.7			
FH (60°-80°)	2495.7	39.9			G2/5000
FVH (80°-90°)	40.2	0.6			G1/100
BL (0°-30°)	222.7	3.6	B1/500		
BM (30°-60°)	205.1	3.3	B0/220		
BH (60°-80°)	66.3	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9
2.5°	1169.6	1171.0	1176.1	1178.3	1183.6	1192.6	1197.1	1197.4	1204.7	1207.5	1209.7
5°	1086.8	1095.3	1103.7	1112.6	1128.9	1150.5	1171.8	1173.8	1197.4	1214.8	1224.0
7.5°	1015.6	1023.2	1033.3	1047.6	1070.6	1104.5	1140.1	1144.4	1189.0	1228.5	1249.3
10°	942.4	948.5	963.1	984.2	1015.9	1061.3	1109.3	1116.3	1181.4	1247.0	1283.5
12.5°	864.1	867.7	885.4	915.7	962.3	1020.1	1083.2	1092.4	1176.6	1268.4	1323.9
15°	804.6	806.3	823.1	854.5	907.8	983.0	1063.0	1074.2	1177.7	1293.9	1367.9
17.5°	789.5	790.3	799.3	820.9	868.0	949.9	1047.0	1060.7	1181.1	1318.9	1412.3
20°	850.9	845.0	835.7	832.4	852.6	930.0	1037.5	1052.9	1185.6	1341.0	1452.1
22.5°	1019.5	1002.1	963.7	912.3	881.2	931.4	1040.0	1055.4	1199.9	1368.2	1498.1
25°	1269.8	1245.6	1180.3	1079.3	982.2	971.8	1061.0	1076.7	1227.7	1400.8	1542.2
27.5°	1554.5	1530.7	1450.7	1306.5	1141.0	1051.8	1109.3	1123.9	1268.9	1429.7	1575.8
30°	1827.2	1820.5	1726.2	1562.4	1340.7	1181.4	1171.6	1183.9	1299.5	1447.1	1602.5
32.5°	2058.4	2047.7	1972.0	1812.6	1569.4	1337.1	1244.8	1248.4	1322.5	1469.5	1637.3
35°	2272.7	2259.5	2193.0	2042.4	1803.9	1527.3	1357.6	1352.2	1372.7	1514.7	1687.8
37.5°	2459.8	2471.9	2398.1	2254.8	2014.3	1725.1	1509.6	1493.6	1451.3	1588.2	1761.0
40°	2616.4	2616.4	2577.9	2458.4	2241.6	1929.6	1681.6	1660.6	1569.4	1701.5	1853.9
42.5°	2672.8	2684.8	2699.1	2631.5	2445.0	2142.3	1873.2	1851.3	1735.7	1862.3	1971.1
45°	2676.1	2695.2	2768.4	2768.2	2628.7	2353.5	2089.2	2078.9	1949.0	2068.8	2116.4
47.5°	2628.7	2652.6	2773.2	2841.7	2774.3	2550.2	2325.5	2312.5	2199.5	2321.8	2268.5
50°	2555.5	2581.9	2722.1	2870.6	2873.4	2721.3	2574.3	2554.9	2475.3	2611.1	2425.6
52.5°	2424.5	2475.5	2676.4	2877.3	2938.4	2869.2	2811.1	2802.7	2783.9	2889.6	2550.7
55°	2144.2	2200.9	2561.7	2879.5	2998.8	3000.2	3033.0	3035.2	3073.1	3150.0	2643.9
57.5°	2011.8	2043.8	2361.4	2890.2	3088.3	3148.9	3259.1	3276.5	3335.1	3397.1	2750.2
60°	1928.5	1966.4	2262.6	2875.6	3228.8	3343.8	3468.7	3474.6	3537.4	3652.2	2894.1
62.5°	1862.0	1899.3	2200.3	2819.5	3386.8	3578.4	3673.5	3674.0	3721.2	3956.0	3057.7
65°	1697.9	1729.3	2074.4	2756.4	3491.1	3810.4	3911.4	3907.7	3946.2	4276.4	3247.6
67.5°	1460.5	1484.7	1817.1	2517.1	3451.8	4021.4	4270.5	4258.4	4211.9	4553.3	3322.2
70°	1129.2	1137.9	1432.2	2097.6	3083.8	4102.4	4617.5	4611.4	4374.8	4503.6	3048.7
71°	933.4	962.0	1262.2	1851.3	2837.2	4027.5	4651.2	4654.8	4333.9	4368.4	2860.5
72.5°	542.0	566.4	914.9	1421.8	2408.8	3715.0	4476.7	4503.1	4142.6	3973.4	2443.3
75°	116.1	124.3	339.2	688.2	1325.0	2603.8	3533.5	3627.5	3376.4	2703.1	1472.6
77.5°	80.8	87.3	145.3	312.2	437.9	1286.6	2195.0	2301.0	2017.1	1015.9	471.3
80°	64.0	71.3	113.3	154.3	118.4	414.9	1028.2	1093.0	672.8	226.7	79.4
82.5°	35.6	42.4	88.4	83.3	45.4	78.8	287.8	325.4	134.7	45.7	18.8
85°	10.4	12.6	57.0	60.6	19.4	15.1	49.1	60.9	25.5	12.1	8.4
87.5°	0.0	0.0	27.5	23.3	5.6	2.2	4.5	5.0	5.0	5.0	5.6
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°	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9	1204.9
2.5°	1209.7	1211.7	1204.7	1195.4	1185.6	1173.5	1160.9	1151.1	1150.8	1146.0	1141.3
5°	1224.6	1223.5	1204.1	1174.7	1139.9	1103.7	1069.2	1030.2	1017.3	1001.3	995.9
7.5°	1252.1	1244.2	1203.3	1138.7	1062.4	986.7	908.4	829.6	795.9	765.6	760.3
10°	1286.6	1271.7	1197.9	1084.9	944.9	805.2	687.1	579.9	532.8	496.6	494.9
12.5°	1322.5	1299.8	1183.1	1003.5	790.9	594.5	458.4	352.9	313.7	288.4	290.6
15°	1360.1	1326.1	1151.1	893.8	615.5	403.4	281.7	219.7	204.0	197.5	199.2
17.5°	1398.5	1344.4	1106.5	761.7	442.4	260.3	195.0	177.6	177.6	179.0	179.6
20°	1431.9	1354.2	1040.8	613.6	299.9	189.6	170.6	168.0	169.5	171.7	172.0
22.5°	1465.0	1354.8	955.3	463.5	209.8	166.1	162.4	161.3	162.2	164.7	165.0
25°	1491.9	1348.0	848.1	329.6	167.5	156.5	154.9	154.3	154.9	157.9	157.9
27.5°	1502.9	1323.6	717.4	231.7	150.1	145.9	145.3	145.9	146.7	149.0	149.3
30°	1504.0	1281.0	574.8	167.8	136.1	131.6	132.7	134.7	133.8	133.3	133.8
32.5°	1506.8	1231.6	436.0	138.0	124.3	117.3	115.9	115.9	112.5	110.5	109.4
35°	1516.1	1173.5	316.2	124.0	112.2	104.1	98.8	92.6	86.1	82.8	81.9
37.5°	1530.7	1112.6	226.4	114.7	101.6	92.3	82.2	71.3	62.0	59.5	59.5
40°	1557.3	1049.8	167.5	107.4	93.1	81.6	66.5	52.2	43.8	42.4	42.4
42.5°	1599.4	983.6	133.5	101.0	85.8	70.7	50.8	37.9	31.7	30.9	30.6
45°	1643.2	910.7	116.7	94.8	78.0	58.1	37.6	28.1	24.4	23.6	23.6
47.5°	1686.9	832.9	108.6	88.9	70.4	45.2	28.1	22.2	20.5	20.5	20.8
50°	1724.0	751.9	102.7	82.5	60.6	34.2	22.2	18.8	18.2	19.4	19.6
52.5°	1733.2	672.2	95.4	74.3	48.5	26.1	18.2	16.6	16.6	16.6	16.6
55°	1727.6	610.5	85.8	64.2	35.9	20.8	15.7	14.6	14.3	14.3	14.3
57.5°	1746.7	574.0	68.7	49.9	25.8	16.8	13.7	12.9	12.3	12.1	12.1
60°	1785.1	550.2	49.1	35.9	19.4	14.0	11.8	10.9	10.1	9.5	9.5
62.5°	1836.2	529.4	36.5	26.7	14.9	11.2	9.8	9.0	7.9	7.3	7.3
65°	1875.5	492.4	27.8	19.9	11.2	9.0	7.6	7.3	5.6	5.0	4.8
67.5°	1815.4	411.0	22.4	14.6	8.4	7.0	5.9	5.6	3.4	2.8	2.8
70°	1557.0	286.2	18.0	10.7	6.2	5.6	4.8	3.6	2.5	2.2	2.2
71°	1412.0	239.0	16.3	9.0	5.3	5.3	4.5	3.1	2.2	2.0	2.0
72.5°	1173.0	169.7	13.7	7.0	4.8	5.6	4.8	2.8	2.2	2.0	1.7
75°	680.9	71.0	9.5	4.8	3.6	6.7	6.2	2.5	1.7	1.4	1.4
77.5°	204.8	26.1	5.3	3.1	2.8	5.9	7.0	2.2	0.8	0.3	0.3
80°	37.3	11.2	3.4	2.0	2.0	3.6	5.3	1.1	0.0	0.0	0.0
82.5°	13.2	5.6	2.0	1.1	0.8	1.7	2.5	0.0	0.0	0.0	0.0
85°	7.6	3.9	1.1	0.6	0.0	0.3	0.6	0.0	0.0	0.0	0.0
87.5°	5.0	1.1	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	0.0

(END OF REPORT)