

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: P323855

Luminaire Tested: **GAN-SA1D-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1D-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6593 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

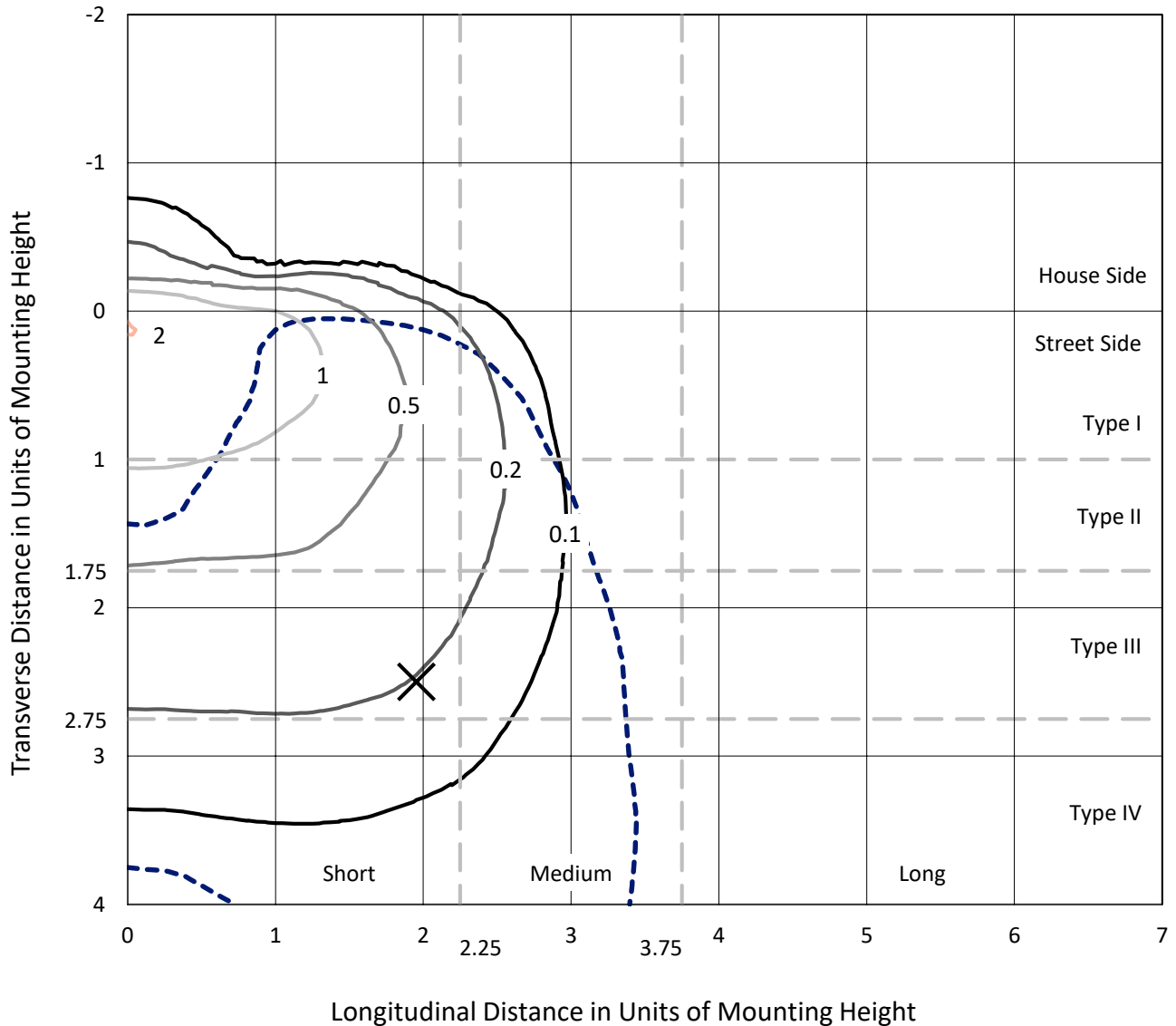
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

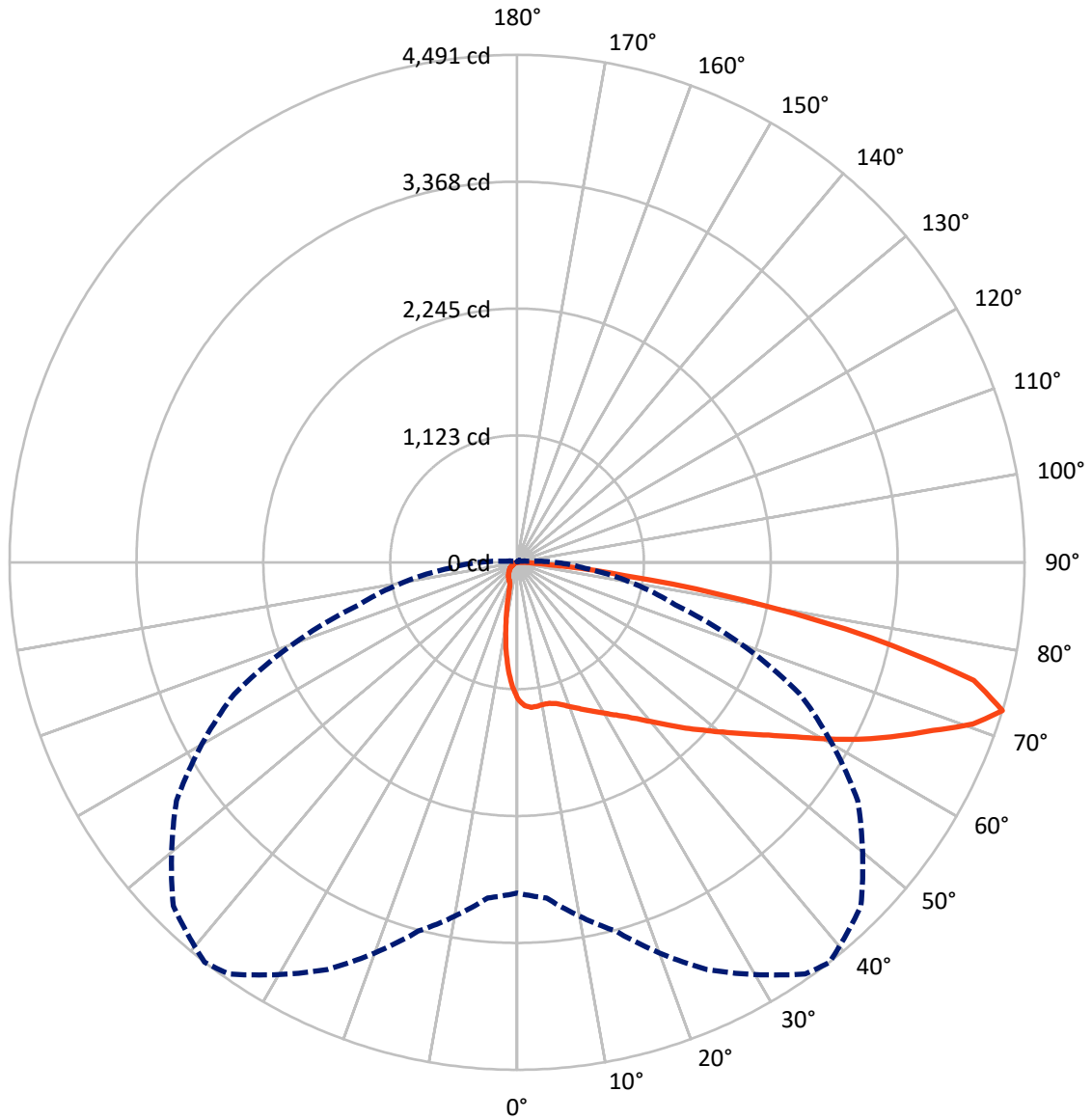
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	554.8	0.0	554.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	6038.2	0.0	6038.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	6593.0	0.0	6593.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.3	1.6
10°-20°	252.6	3.8
20°-30°	401.8	6.1
30°-40°	604.1	9.2
40°-50°	921.6	14.0
50°-60°	1302.5	19.8
60°-70°	1633.8	24.8
70°-80°	1221.6	18.5
80°-90°	151.5	2.3
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°	6593.0	100.0
0°-180°	6593.0	100.0

**Coefficient of Utilization**

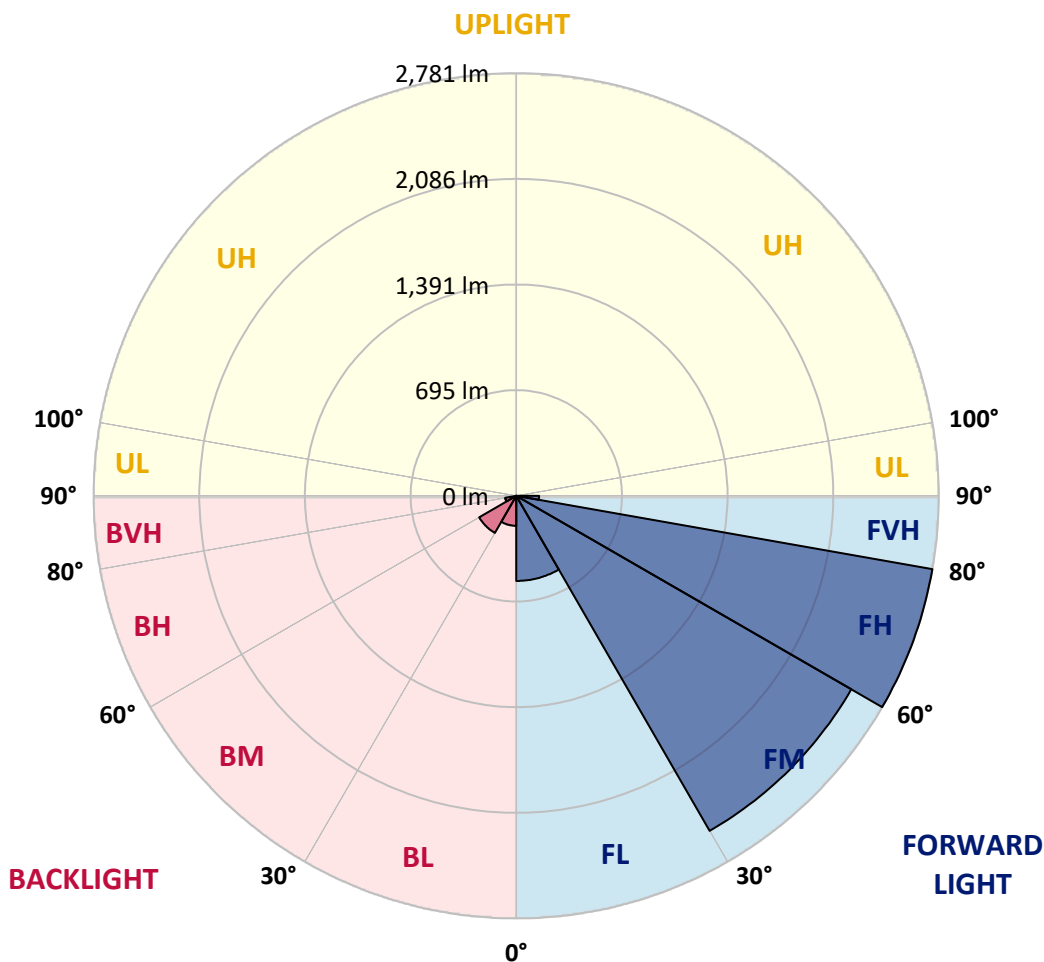


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.2	8.5			
FM (30°-60°)	2546.5	38.6			
FH (60°-80°)	2781.4	42.2			G2/5000
FVH (80°-90°)	150.1	2.3			G2/225
BL (0°-30°)	197.6	3.0	B1/500		
BM (30°-60°)	281.8	4.3	B1/1000		
BH (60°-80°)	74.1	1.1	B0/110		G0/110
BVH (80°-90°)	1.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4
2.5°	1286.9	1287.2	1284.2	1279.2	1272.9	1269.7	1264.2	1255.4	1246.1	1229.4	1211.3
5°	1313.2	1313.2	1309.4	1302.8	1292.7	1289.6	1279.2	1265.3	1246.1	1219.0	1188.6
7.5°	1310.5	1311.0	1305.8	1299.0	1288.8	1286.1	1273.5	1257.9	1234.1	1201.2	1162.3
10°	1296.2	1297.6	1293.5	1290.2	1280.9	1277.9	1266.1	1250.5	1226.7	1191.6	1147.0
12.5°	1281.7	1283.1	1284.4	1287.5	1281.7	1280.6	1271.3	1258.2	1235.4	1199.0	1148.6
15°	1272.4	1275.1	1285.0	1296.8	1298.1	1297.0	1291.0	1278.7	1255.7	1217.9	1160.4
17.5°	1272.4	1276.8	1297.3	1319.8	1327.7	1328.5	1323.3	1306.1	1278.7	1238.2	1171.4
20°	1283.1	1289.1	1321.1	1352.9	1366.0	1366.0	1355.9	1331.8	1299.8	1256.5	1178.8
22.5°	1310.5	1318.4	1358.6	1395.3	1409.3	1406.3	1392.6	1357.6	1321.7	1277.3	1188.1
25°	1364.4	1370.4	1412.3	1449.3	1457.8	1450.9	1433.7	1388.8	1349.6	1305.5	1205.0
27.5°	1433.9	1434.8	1478.0	1509.2	1504.0	1499.4	1477.8	1427.9	1389.9	1345.8	1234.3
30°	1510.3	1510.3	1548.4	1572.2	1556.3	1552.5	1530.9	1475.3	1441.3	1400.5	1276.0
32.5°	1584.3	1587.6	1618.5	1633.6	1615.8	1611.9	1590.8	1535.3	1509.8	1484.1	1340.8
35°	1655.7	1658.2	1687.5	1695.7	1678.7	1679.8	1664.8	1617.7	1608.1	1604.8	1438.6
37.5°	1725.0	1725.6	1755.4	1760.6	1752.1	1761.4	1762.8	1721.2	1739.0	1765.5	1576.3
40°	1788.3	1788.8	1818.4	1831.8	1846.3	1858.3	1869.0	1846.8	1905.7	1967.3	1740.3
42.5°	1838.9	1844.7	1882.2	1907.6	1946.0	1969.0	1998.0	1996.9	2104.2	2196.8	1938.6
45°	1883.5	1893.4	1945.7	1990.3	2056.0	2092.7	2138.2	2173.8	2327.7	2452.2	2139.3
47.5°	1942.4	1951.7	2011.4	2084.5	2172.1	2220.3	2295.6	2372.6	2573.3	2703.1	2335.3
50°	2025.4	2021.3	2080.1	2185.0	2297.5	2360.8	2468.1	2583.4	2817.0	2921.6	2450.6
52.5°	2113.8	2112.2	2155.7	2294.3	2445.4	2519.3	2661.2	2801.4	3050.0	3072.1	2503.4
55°	2223.3	2211.6	2248.3	2418.8	2620.9	2700.3	2867.3	3017.1	3235.6	3157.0	2530.0
57.5°	2338.1	2318.6	2353.7	2557.7	2818.9	2912.8	3095.7	3227.4	3359.1	3215.1	2529.7
60°	2456.6	2433.6	2475.2	2731.3	3064.8	3173.5	3343.2	3369.5	3474.4	3244.4	2511.1
62.5°	2555.7	2542.1	2603.9	2916.9	3339.4	3446.2	3530.2	3498.7	3571.6	3267.1	2467.6
65°	2660.6	2661.4	2761.4	3133.5	3631.3	3703.3	3710.4	3666.3	3652.9	3262.4	2320.3
67.5°	2802.4	2815.6	2982.3	3427.6	3915.2	3970.8	3970.2	3847.9	3712.3	3077.4	1993.6
70°	2952.5	2983.4	3237.0	3764.1	4225.2	4281.6	4252.5	3963.4	3495.5	2488.4	1410.9
72.5°	2927.3	2981.0	3378.5	3976.3	4447.8	4490.8	4302.1	3679.5	2762.7	1446.3	600.7
75°	2258.4	2320.5	3097.9	3766.0	4214.2	4175.6	3696.4	2863.2	1509.8	403.6	135.3
77.5°	1193.0	1226.1	2046.5	2869.0	3286.0	3205.2	2603.9	1588.4	460.3	99.9	60.8
80°	624.8	632.5	891.8	1627.8	2028.1	2028.7	1543.2	697.7	189.8	51.2	40.8
82.5°	334.6	341.2	471.2	752.2	1062.7	963.3	590.9	383.9	110.3	29.0	39.2
85°	80.5	81.9	267.2	343.6	417.8	298.5	175.5	322.3	29.8	17.0	31.8
87.5°	30.9	31.5	99.1	148.7	106.5	69.0	82.1	120.2	3.8	6.6	4.9
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°	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4	1212.4
2.5°	1200.4	1193.3	1175.7	1153.6	1133.8	1119.6	1098.3	1084.3	1075.0	1074.7	1071.1
5°	1170.0	1155.5	1117.7	1072.8	1032.0	995.3	952.0	917.8	892.3	888.2	879.5
7.5°	1137.4	1113.6	1055.5	985.4	917.0	847.4	766.7	716.6	673.6	653.0	650.8
10°	1117.4	1084.0	1001.6	900.3	793.0	679.9	574.2	501.1	448.2	433.2	421.9
12.5°	1113.3	1069.2	960.0	820.3	667.0	517.5	400.6	322.8	280.7	267.2	263.7
15°	1117.4	1062.4	924.9	741.2	539.4	367.2	268.9	223.7	207.8	204.0	203.7
17.5°	1119.9	1054.2	885.2	653.3	415.6	262.3	205.9	192.8	190.3	190.0	190.6
20°	1119.6	1041.6	837.9	555.3	309.1	206.2	186.2	183.5	182.9	183.2	182.9
22.5°	1117.7	1026.8	785.8	454.3	233.6	184.3	177.7	176.1	175.8	175.8	175.8
25°	1121.3	1015.0	728.6	357.6	192.5	174.1	170.0	168.7	168.4	168.4	167.8
27.5°	1134.1	1008.4	665.9	275.2	173.9	165.1	161.8	161.5	160.7	160.5	161.0
30°	1154.9	1008.4	597.2	214.1	162.6	155.8	153.3	152.8	152.5	152.2	152.5
32.5°	1191.6	1016.1	522.2	178.0	152.0	145.4	143.8	144.6	143.8	143.8	143.8
35°	1257.9	1039.1	443.6	155.3	140.7	135.3	133.6	134.7	134.2	134.2	133.9
37.5°	1354.5	1081.8	364.4	141.6	130.9	125.1	122.9	124.6	124.0	124.0	123.8
40°	1472.3	1144.0	289.1	131.2	121.3	115.3	113.4	114.2	112.8	112.8	113.4
42.5°	1617.7	1222.8	223.4	121.0	111.7	106.0	104.9	104.0	101.6	100.2	100.5
45°	1779.2	1305.0	174.1	111.2	102.7	98.0	96.4	94.2	90.1	87.3	87.6
47.5°	1923.5	1368.2	141.6	101.6	94.5	90.9	88.4	84.3	78.3	75.0	75.3
50°	1999.4	1377.8	120.5	92.0	86.8	83.2	79.7	73.4	66.3	62.7	62.4
52.5°	2018.8	1332.9	104.9	83.2	79.1	75.0	70.4	61.9	53.9	50.1	49.6
55°	2025.9	1264.5	90.9	75.0	70.9	66.3	60.2	50.7	43.3	39.4	39.2
57.5°	2002.4	1162.3	80.0	67.6	62.7	57.0	49.6	40.5	33.4	30.4	30.4
60°	1950.1	1024.0	71.5	59.7	54.2	47.6	40.0	31.5	24.9	22.5	22.5
62.5°	1845.8	845.0	63.5	51.5	46.3	39.4	32.3	23.8	17.5	16.2	16.4
65°	1648.9	641.0	55.6	44.1	39.4	32.6	25.2	17.0	11.8	11.8	12.3
67.5°	1344.7	445.2	47.4	37.5	34.0	26.6	19.2	11.8	8.2	9.3	10.4
70°	890.2	249.7	40.5	30.9	29.0	21.1	14.2	7.9	6.6	8.8	10.7
72.5°	336.0	97.2	34.0	24.9	25.2	16.2	10.1	6.0	6.0	9.6	12.6
75°	93.6	47.6	24.4	18.3	19.7	11.8	7.4	5.2	5.8	11.0	14.8
77.5°	55.0	35.0	15.9	10.7	13.4	8.2	4.9	4.1	4.9	9.3	14.2
80°	44.4	18.6	9.3	5.5	7.4	4.7	3.3	2.5	1.4	3.6	7.4
82.5°	44.4	11.2	4.4	3.8	3.8	2.5	1.6	1.1	0.3	0.0	1.9
85°	29.8	4.7	2.7	2.5	1.9	0.8	0.5	0.3	0.0	0.0	0.0
87.5°	4.9	1.9	1.1	0.5	0.3	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)