

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: P320045

Luminaire Tested: **GAN-SA1C-750-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1C-750-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7037 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

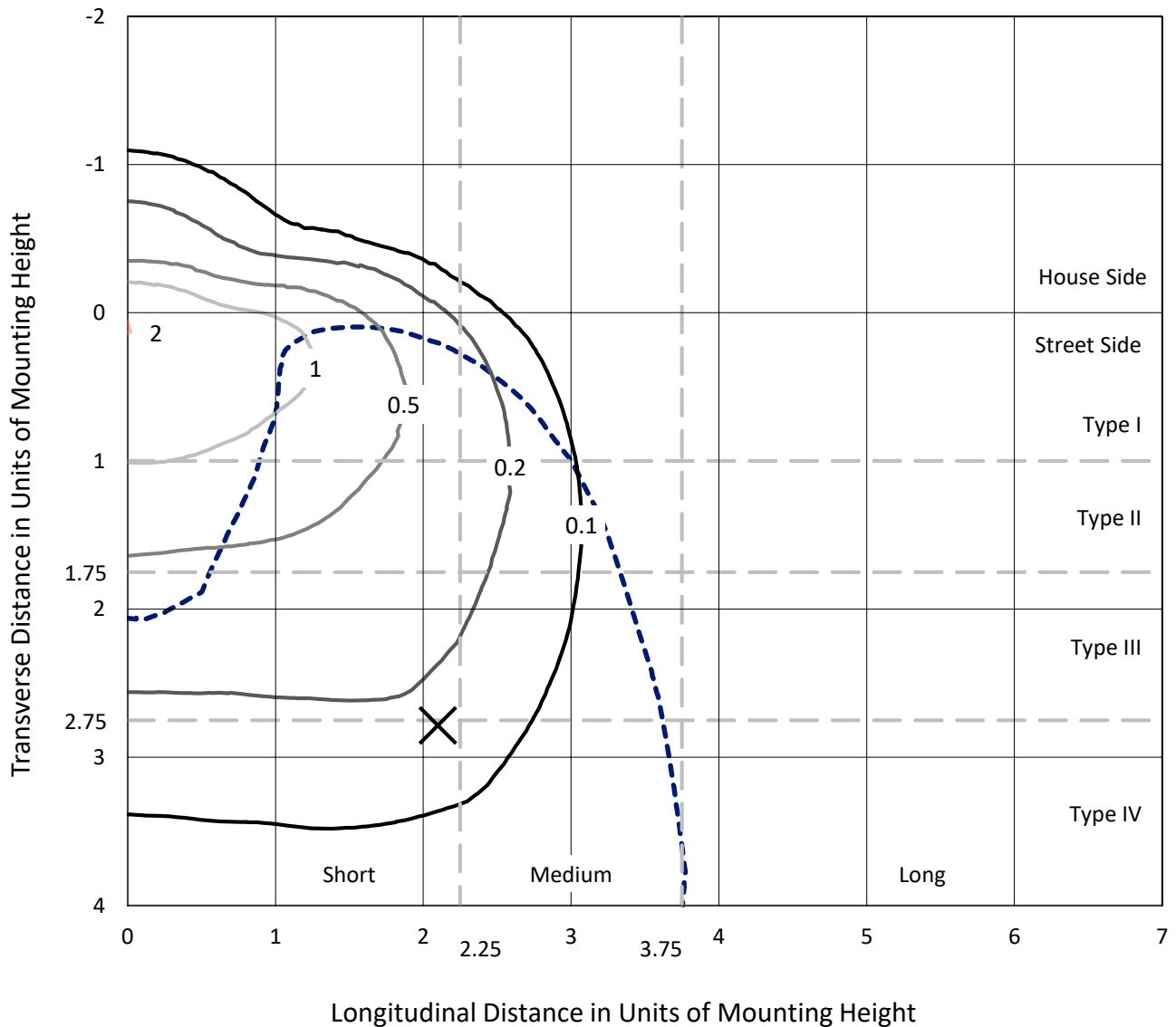
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

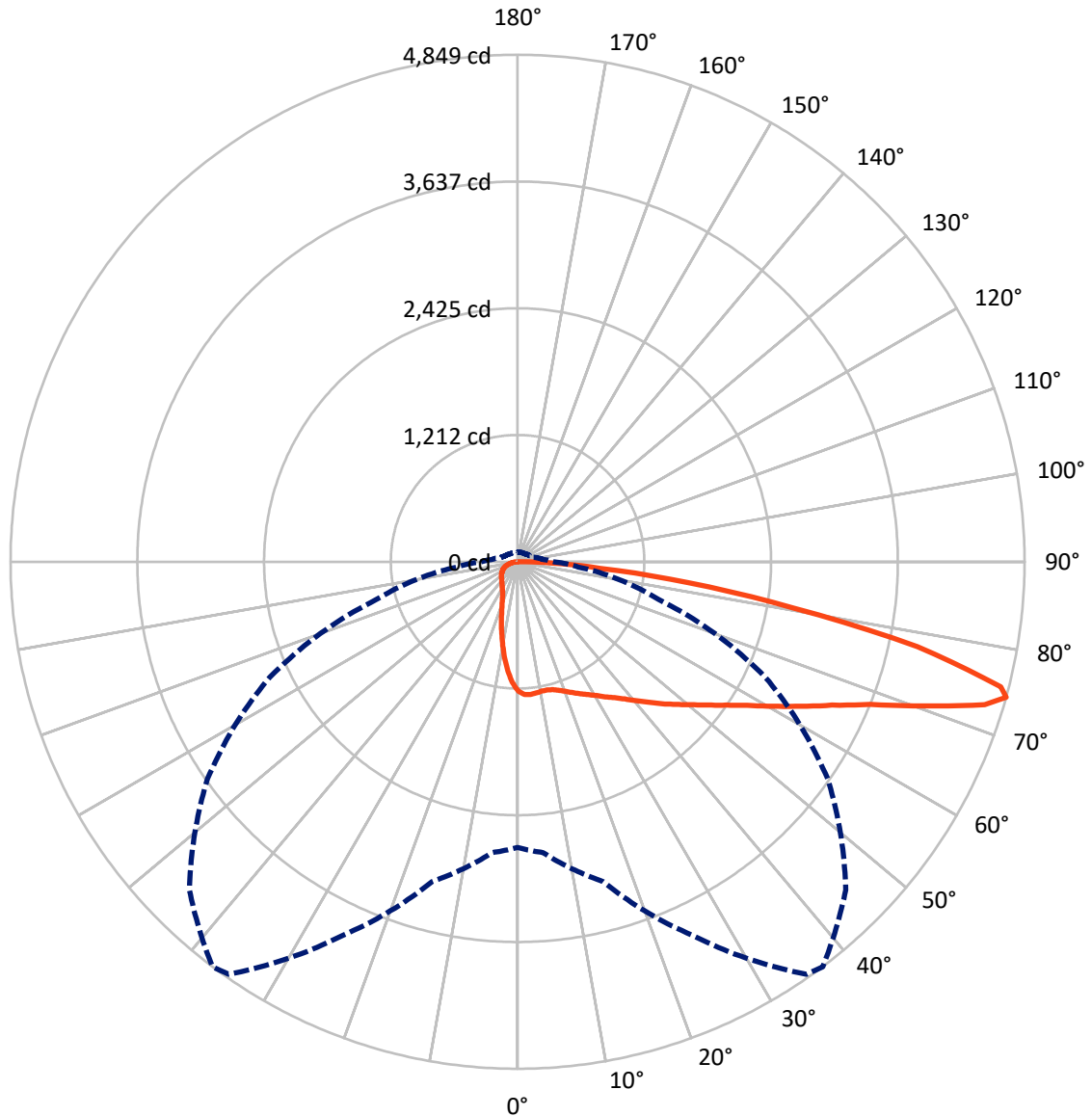
✕ Max cd  
 - - - 1/2 Max cd



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 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	968.2	0.0	968.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	6068.8	0.0	6068.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	7037.0	0.0	7037.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	1.6
10°-20°	279.9	4.0
20°-30°	431.2	6.1
30°-40°	627.1	8.9
40°-50°	922.9	13.1
50°-60°	1296.1	18.4
60°-70°	1640.5	23.3
70°-80°	1444.5	20.5
80°-90°	285.6	4.1
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°	7037.0	100.0
0°-180°	7037.0	100.0

**Coefficient of Utilization**

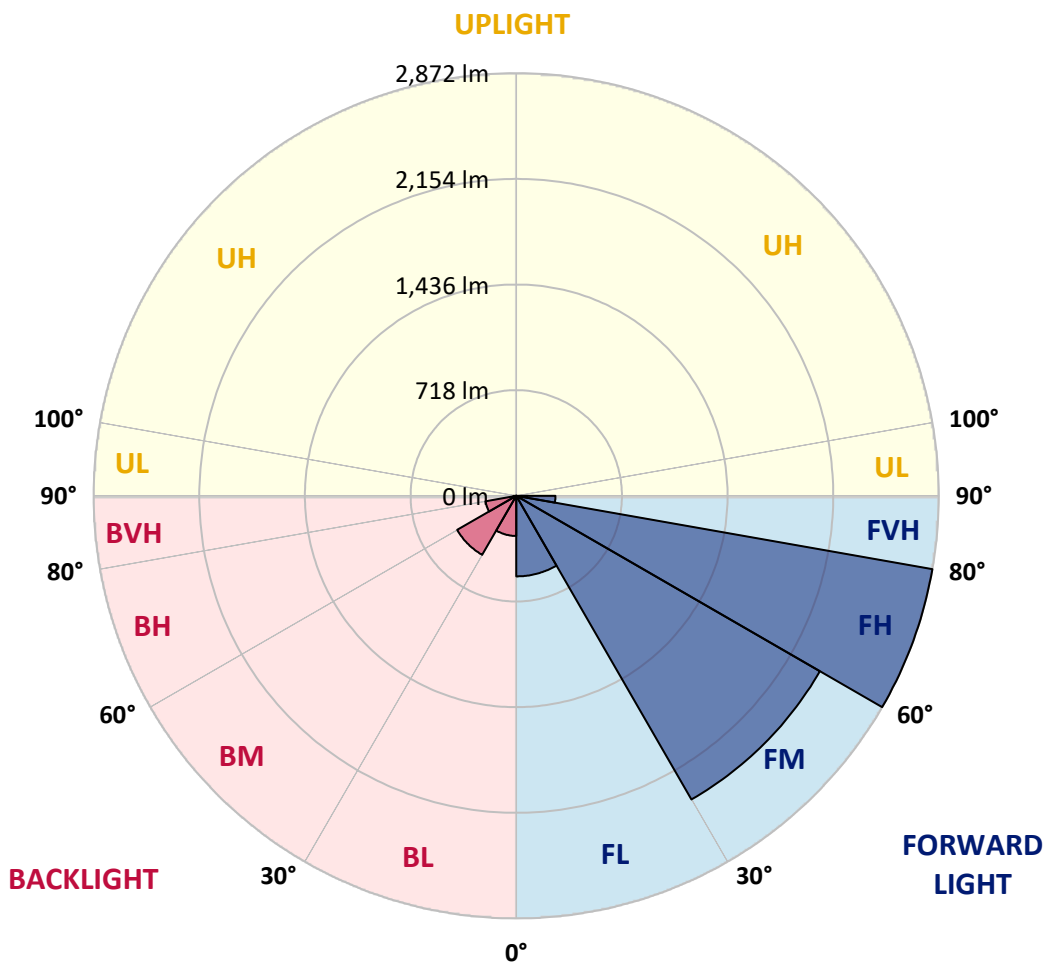


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.6	7.8			
FM (30°-60°)	2382.8	33.9			
FH (60°-80°)	2872.1	40.8			G2/5000
FVH (80°-90°)	266.3	3.8			G3/500
BL (0°-30°)	272.7	3.9	B1/500		
BM (30°-60°)	463.3	6.6	B1/1000		
BH (60°-80°)	212.8	3.0	B1/500		G1/500
BVH (80°-90°)	19.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1282.3	1282.5	1282.3	1280.3	1275.6	1271.6	1268.4	1263.7	1253.3	1245.3	1233.4
5°	1294.4	1292.9	1291.9	1288.2	1280.8	1276.3	1270.1	1261.2	1244.1	1228.2	1208.9
7.5°	1288.7	1287.0	1284.8	1280.3	1271.9	1268.2	1259.5	1247.8	1227.3	1206.4	1178.7
10°	1271.1	1270.6	1269.6	1268.6	1261.5	1258.5	1250.6	1238.2	1217.8	1192.5	1160.1
12.5°	1251.5	1252.8	1256.7	1262.0	1258.7	1257.2	1252.3	1243.9	1223.0	1195.8	1156.6
15°	1239.1	1242.6	1253.3	1266.9	1269.6	1269.1	1267.9	1262.4	1240.4	1210.1	1164.5
17.5°	1234.9	1240.6	1261.0	1283.5	1291.5	1293.2	1293.7	1284.3	1259.7	1227.7	1172.7
20°	1242.6	1249.8	1279.6	1310.5	1323.2	1324.2	1321.9	1305.6	1278.1	1242.9	1177.2
22.5°	1265.9	1272.4	1309.5	1344.5	1358.9	1360.4	1353.7	1328.9	1297.4	1260.7	1183.4
25°	1310.8	1318.7	1355.9	1390.9	1398.3	1398.5	1388.9	1358.1	1322.7	1285.7	1196.8
27.5°	1369.3	1377.2	1410.7	1444.9	1440.9	1438.7	1425.6	1394.8	1355.7	1320.2	1220.6
30°	1434.5	1443.2	1474.9	1499.2	1489.8	1485.3	1474.6	1435.0	1401.5	1367.3	1257.0
32.5°	1501.9	1509.8	1537.6	1554.2	1542.3	1540.3	1524.2	1488.0	1461.2	1439.2	1316.0
35°	1571.1	1576.8	1604.0	1613.4	1597.6	1597.1	1592.6	1559.4	1542.6	1553.0	1401.8
37.5°	1641.7	1643.2	1666.5	1667.0	1662.3	1664.3	1669.0	1648.1	1652.9	1685.3	1513.3
40°	1704.7	1708.6	1725.5	1730.7	1738.9	1745.8	1769.4	1755.7	1792.2	1849.7	1652.1
42.5°	1751.3	1759.0	1786.0	1799.4	1825.9	1836.8	1870.0	1882.6	1956.0	2042.3	1817.2
45°	1790.7	1802.6	1846.0	1873.5	1918.3	1937.4	1985.0	2027.4	2141.2	2251.2	1991.0
47.5°	1833.3	1848.4	1902.7	1955.3	2016.3	2037.8	2124.3	2187.8	2338.7	2461.4	2154.8
50°	1896.0	1907.7	1960.7	2043.3	2119.4	2147.1	2266.9	2357.8	2539.5	2661.7	2296.8
52.5°	1983.5	1979.1	2023.9	2139.7	2241.8	2276.0	2419.1	2538.8	2743.0	2842.9	2416.8
55°	2071.5	2064.1	2095.6	2240.6	2384.6	2420.5	2586.6	2720.5	2936.6	3006.0	2508.8
57.5°	2169.4	2155.3	2181.8	2354.4	2547.2	2590.1	2774.3	2913.6	3127.0	3137.9	2567.3
60°	2270.3	2251.2	2281.0	2495.4	2753.7	2804.3	2993.9	3102.0	3306.5	3243.5	2586.1
62.5°	2358.6	2345.2	2391.0	2652.8	2986.4	3042.0	3209.5	3302.2	3483.4	3287.4	2518.2
65°	2435.7	2437.9	2517.2	2829.8	3246.0	3305.2	3456.9	3549.1	3622.8	3261.3	2359.3
67.5°	2527.6	2540.3	2675.6	3062.8	3572.7	3637.6	3816.8	3818.3	3700.6	3108.7	2046.5
70°	2661.7	2687.8	2893.5	3386.0	4037.2	4126.4	4264.8	3976.5	3591.3	2694.7	1610.2
72.5°	2780.7	2829.3	3125.3	3755.9	4603.4	4671.0	4526.8	3885.3	3134.4	2019.5	1003.2
74°	2732.4	2792.6	3167.4	3938.1	4816.5	4849.0	4438.3	3619.0	2613.4	1398.5	583.0
75°	2628.3	2693.7	3105.9	3936.3	4789.5	4771.4	4224.6	3314.9	2152.3	953.8	387.9
77.5°	2121.1	2190.3	2617.1	3373.6	3927.2	3910.0	3245.2	2223.7	942.7	312.8	197.1
80°	1233.2	1286.0	1624.6	2142.4	2648.1	2679.1	2134.2	1100.3	370.8	175.7	133.6
82.5°	547.8	584.3	784.8	1093.6	1598.1	1638.0	1117.7	576.6	229.0	106.8	80.3
85°	359.4	386.4	476.4	520.8	761.0	788.3	547.1	448.9	151.2	58.7	59.0
87.5°	258.5	284.6	354.0	309.1	349.3	330.7	297.7	415.4	60.7	33.5	19.8
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°	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9	1239.9
2.5°	1228.2	1224.3	1215.4	1198.5	1189.1	1181.1	1168.0	1160.3	1156.9	1156.6	1158.1
5°	1197.8	1188.6	1165.5	1137.3	1114.7	1094.1	1068.6	1053.2	1042.3	1035.9	1037.6
7.5°	1162.3	1147.9	1111.7	1066.6	1030.4	990.5	951.1	927.6	909.2	895.6	898.1
10°	1138.0	1118.2	1065.4	1000.4	940.2	882.2	827.9	795.4	769.7	749.8	751.3
12.5°	1129.8	1103.1	1029.9	943.2	858.7	779.3	708.4	658.6	632.1	609.5	611.3
15°	1131.1	1095.1	1000.2	891.6	785.3	685.4	599.4	541.1	505.2	489.6	489.8
17.5°	1132.1	1086.0	969.0	836.3	712.7	597.6	504.2	445.2	411.2	396.9	397.1
20°	1128.8	1071.1	930.3	772.9	636.8	517.1	426.6	376.5	350.7	339.6	339.6
22.5°	1124.6	1053.5	886.7	709.2	561.9	447.2	371.1	332.9	318.0	310.6	310.3
25°	1126.6	1040.3	842.0	643.7	493.0	391.4	334.1	308.9	298.9	294.2	294.0
27.5°	1137.3	1034.2	800.9	578.6	432.8	349.5	309.4	291.5	285.1	282.1	282.1
30°	1156.6	1034.2	758.0	523.0	382.7	318.5	290.3	278.1	273.7	271.7	271.7
32.5°	1190.3	1039.9	716.6	468.0	342.8	294.2	274.4	266.2	262.8	261.8	261.8
35°	1248.3	1059.2	676.2	415.9	310.6	274.4	259.3	254.6	252.1	251.8	252.6
37.5°	1329.9	1098.6	638.3	377.5	287.8	258.3	246.6	242.9	241.4	242.7	243.7
40°	1432.5	1152.1	603.8	342.8	270.4	245.4	235.0	232.5	231.8	233.5	235.0
42.5°	1556.4	1224.5	575.6	317.8	257.1	234.5	225.1	222.1	221.4	223.3	225.3
45°	1690.5	1302.4	555.7	299.2	246.6	226.3	216.4	213.2	211.7	212.7	214.9
47.5°	1812.5	1376.0	547.8	286.1	236.7	219.4	208.7	204.7	202.3	201.8	203.5
50°	1915.4	1430.8	551.5	278.1	228.8	211.7	201.3	196.8	193.1	190.9	192.1
52.5°	1990.2	1465.2	555.0	274.7	222.6	203.3	193.1	188.9	183.9	180.2	180.2
55°	2044.5	1473.1	547.3	271.9	217.9	194.1	183.9	180.0	175.0	170.8	170.3
57.5°	2065.8	1450.8	518.8	268.0	214.7	185.4	174.3	171.3	167.1	162.1	161.9
60°	2037.1	1381.9	463.8	259.5	210.4	178.2	164.6	162.6	160.6	155.9	155.7
62.5°	1921.6	1230.7	392.6	242.4	202.0	170.5	155.7	156.7	156.9	153.7	153.2
65°	1712.1	1023.0	323.2	220.1	189.4	161.4	146.5	151.2	153.9	153.4	152.7
67.5°	1407.7	796.2	273.9	196.6	172.8	148.7	136.6	142.0	144.3	146.0	145.5
70°	1044.8	561.4	226.6	171.8	152.7	133.9	123.7	126.4	124.9	126.9	127.7
72.5°	582.5	336.9	184.7	147.0	131.9	116.5	109.3	108.8	105.6	105.6	105.6
74°	349.5	247.1	162.4	131.6	119.2	105.1	98.9	96.7	93.7	93.9	93.7
75°	281.1	212.4	149.0	121.5	110.3	98.4	92.2	89.2	87.0	87.0	86.8
77.5°	177.5	161.4	120.0	96.7	88.2	81.1	76.8	72.9	72.9	72.6	72.4
80°	134.1	128.4	93.5	73.1	67.7	62.2	59.5	57.8	57.8	58.5	58.3
82.5°	92.0	96.7	65.7	51.1	48.3	44.4	43.9	44.1	43.4	42.4	42.1
85°	67.2	72.6	44.4	32.2	29.5	27.0	29.0	30.0	28.8	26.5	25.5
87.5°	25.8	47.6	23.8	13.4	12.4	10.7	12.4	12.9	13.9	10.9	11.2
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)