

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: P320015

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320015  
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-SA1D-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA 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: 7719 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

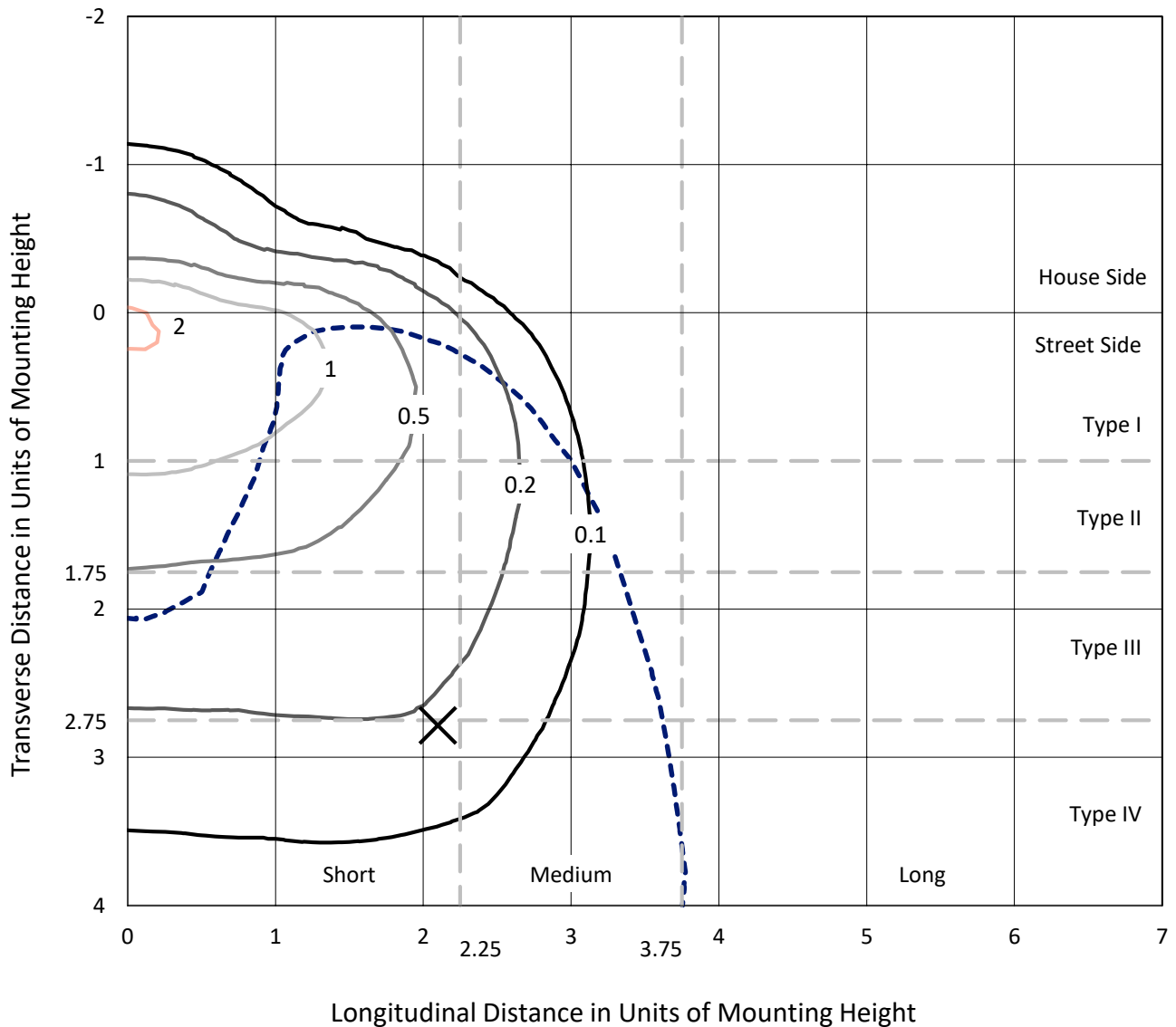
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

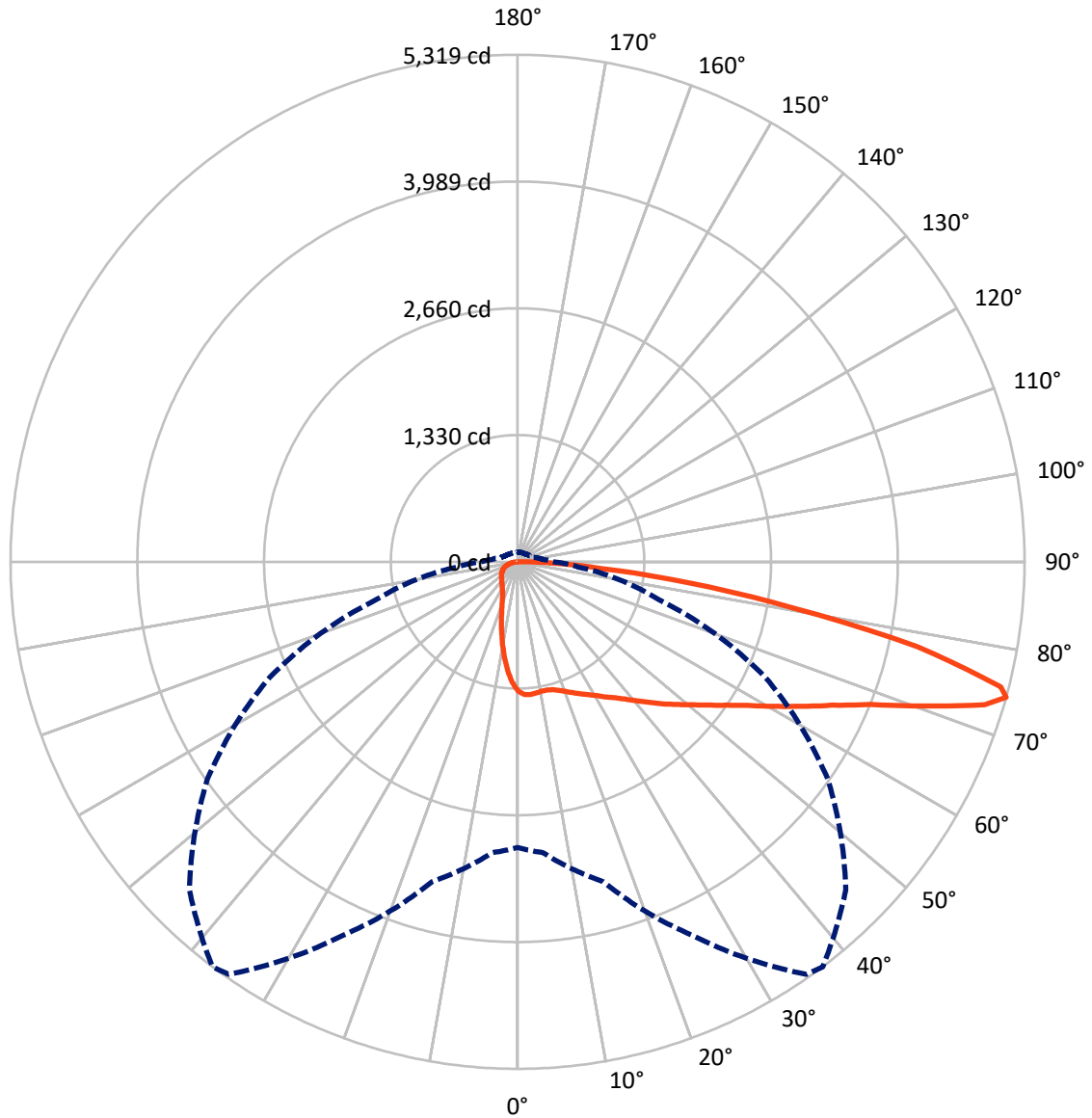
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1062.1	0.0	1062.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	6656.9	0.0	6656.9
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	7719.0	0.0	7719.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	1.6
10°-20°	307.0	4.0
20°-30°	473.0	6.1
30°-40°	687.8	8.9
40°-50°	1012.4	13.1
50°-60°	1421.7	18.4
60°-70°	1799.5	23.3
70°-80°	1584.5	20.5
80°-90°	313.3	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°	7719.0	100.0
0°-180°	7719.0	100.0

**Coefficient of Utilization**

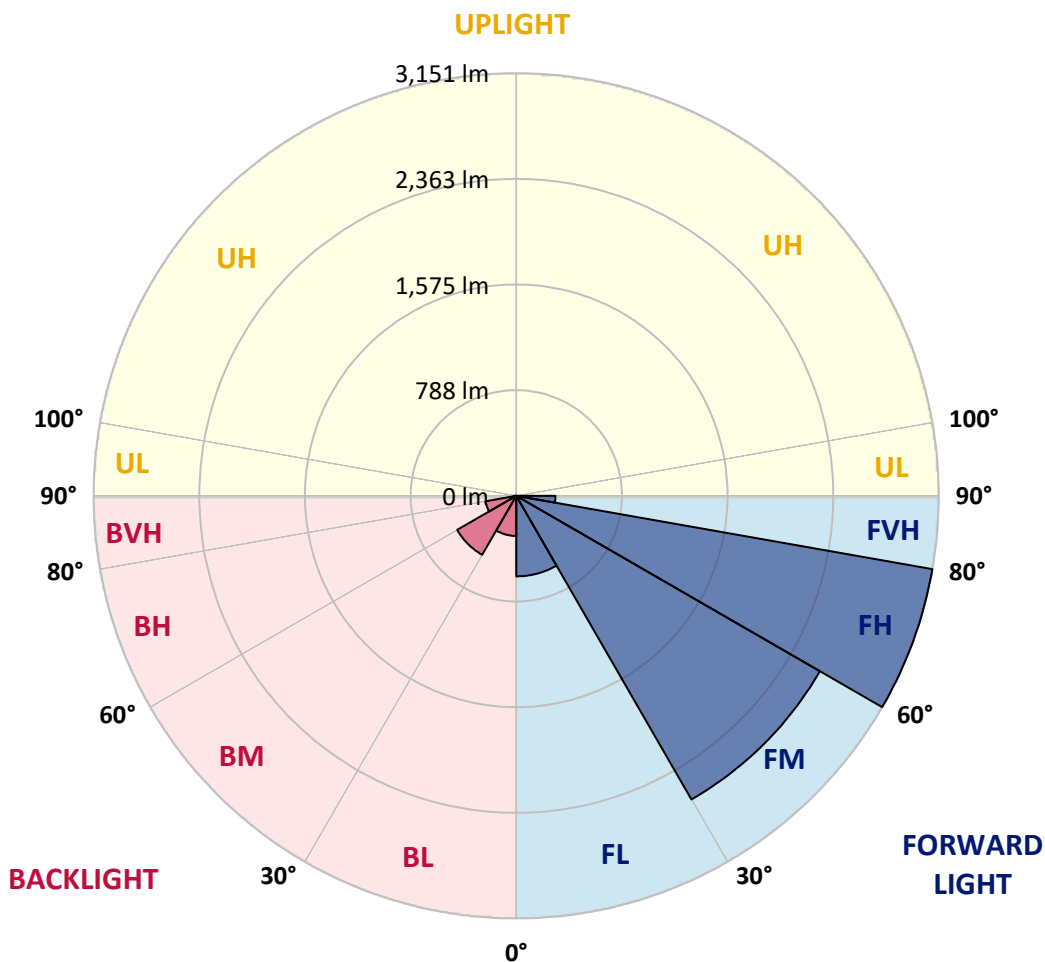


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.6	7.8			
FM (30°-60°)	2613.7	33.9			
FH (60°-80°)	3150.5	40.8			G2/5000
FVH (80°-90°)	292.1	3.8			G3/500
BL (0°-30°)	299.2	3.9	B1/500		
BM (30°-60°)	508.2	6.6	B1/1000		
BH (60°-80°)	233.5	3.0	B1/500		G1/500
BVH (80°-90°)	21.2	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°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1406.6	1406.8	1406.6	1404.4	1399.2	1394.9	1391.3	1386.2	1374.7	1366.0	1353.0
5°	1419.9	1418.2	1417.2	1413.1	1404.9	1400.0	1393.2	1383.4	1364.7	1347.3	1326.1
7.5°	1413.6	1411.7	1409.3	1404.4	1395.1	1391.1	1381.5	1368.8	1346.2	1323.4	1292.9
10°	1394.3	1393.8	1392.7	1391.6	1383.7	1380.5	1371.7	1358.2	1335.9	1308.1	1272.5
12.5°	1372.8	1374.2	1378.5	1384.3	1380.7	1379.1	1373.7	1364.4	1341.6	1311.7	1268.7
15°	1359.2	1363.0	1374.7	1389.7	1392.7	1392.1	1390.8	1384.8	1360.6	1327.4	1277.4
17.5°	1354.6	1360.9	1383.2	1407.9	1416.6	1418.5	1419.1	1408.7	1381.8	1346.7	1286.4
20°	1363.0	1370.9	1403.6	1437.6	1451.4	1452.5	1450.1	1432.1	1401.9	1363.3	1291.3
22.5°	1388.6	1395.7	1436.5	1474.8	1490.6	1492.2	1484.9	1457.7	1423.1	1382.9	1298.1
25°	1437.8	1446.5	1487.3	1525.6	1533.8	1534.1	1523.5	1489.8	1450.9	1410.4	1312.7
27.5°	1502.0	1510.7	1547.4	1584.9	1580.6	1578.1	1563.7	1530.0	1487.0	1448.2	1338.8
30°	1573.5	1583.0	1617.8	1644.5	1634.1	1629.2	1617.5	1574.0	1537.3	1499.8	1378.8
32.5°	1647.5	1656.2	1686.6	1704.8	1691.8	1689.6	1671.9	1632.2	1602.9	1578.7	1443.5
35°	1723.3	1729.6	1759.5	1769.8	1752.4	1751.9	1747.0	1710.5	1692.1	1703.5	1537.6
37.5°	1800.8	1802.4	1828.0	1828.5	1823.4	1825.6	1830.7	1807.9	1813.0	1848.7	1660.0
40°	1869.9	1874.2	1892.7	1898.4	1907.4	1915.0	1940.8	1925.9	1965.9	2028.9	1812.2
42.5°	1921.0	1929.4	1959.1	1973.7	2002.8	2014.8	2051.2	2065.1	2145.6	2240.2	1993.3
45°	1964.2	1977.3	2024.9	2055.0	2104.3	2125.2	2177.4	2223.9	2348.7	2469.4	2183.9
47.5°	2011.0	2027.6	2087.1	2144.8	2211.7	2235.3	2330.2	2399.8	2565.4	2700.0	2363.7
50°	2079.8	2092.6	2150.8	2241.3	2324.8	2355.2	2486.6	2586.3	2785.6	2919.7	2519.5
52.5°	2175.8	2170.9	2220.1	2347.1	2459.1	2496.6	2653.5	2784.8	3008.9	3118.5	2651.1
55°	2272.3	2264.1	2298.7	2457.7	2615.7	2655.1	2837.3	2984.1	3221.2	3297.4	2751.9
57.5°	2379.7	2364.2	2393.3	2582.5	2794.1	2841.1	3043.1	3195.9	3430.1	3442.0	2816.1
60°	2490.4	2469.4	2502.0	2737.2	3020.6	3076.0	3284.0	3402.6	3626.9	3557.8	2836.8
62.5°	2587.2	2572.5	2622.8	2909.9	3275.9	3336.8	3520.6	3622.3	3821.1	3606.0	2762.3
65°	2671.7	2674.2	2761.2	3104.0	3560.6	3625.6	3792.0	3893.1	3973.9	3577.4	2588.0
67.5°	2772.6	2786.5	2934.9	3359.6	3918.9	3990.2	4186.8	4188.4	4059.2	3409.9	2244.8
70°	2919.7	2948.2	3173.9	3714.2	4428.5	4526.4	4678.1	4361.9	3939.3	2955.9	1766.3
72.5°	3050.2	3103.5	3428.2	4119.9	5049.5	5123.7	4965.5	4261.8	3438.2	2215.2	1100.4
74°	2997.2	3063.3	3474.4	4319.7	5283.3	5319.0	4868.4	3969.8	2866.7	1534.1	639.5
75°	2883.0	2954.8	3406.9	4317.8	5253.7	5233.9	4634.0	3636.2	2360.9	1046.3	425.5
77.5°	2326.7	2402.5	2870.7	3700.6	4307.8	4289.0	3559.8	2439.2	1034.0	343.1	216.2
80°	1352.7	1410.6	1782.1	2350.1	2904.7	2938.7	2341.1	1207.0	406.8	192.8	146.6
82.5°	600.9	640.9	860.8	1199.6	1753.0	1796.7	1226.0	632.4	251.2	117.2	88.1
85°	394.3	423.9	522.6	571.3	834.7	864.7	600.1	492.4	165.9	64.4	64.7
87.5°	283.6	312.1	388.3	339.1	383.1	362.7	326.6	455.7	66.6	36.7	21.8
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°	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1347.3	1342.9	1333.1	1314.7	1304.3	1295.6	1281.2	1272.8	1269.0	1268.7	1270.3
5°	1313.8	1303.8	1278.5	1247.5	1222.7	1200.2	1172.2	1155.3	1143.4	1136.3	1138.2
7.5°	1275.0	1259.2	1219.5	1170.0	1130.3	1086.5	1043.3	1017.5	997.3	982.4	985.1
10°	1248.3	1226.6	1168.6	1097.4	1031.3	967.7	908.2	872.5	844.3	822.5	824.1
12.5°	1239.3	1210.0	1129.8	1034.6	941.9	854.9	777.1	722.4	693.4	668.6	670.5
15°	1240.7	1201.3	1097.1	978.0	861.4	751.8	657.5	593.6	554.1	537.0	537.3
17.5°	1241.8	1191.2	1062.9	917.4	781.7	655.6	553.1	488.3	451.1	435.3	435.6
20°	1238.2	1174.9	1020.5	847.8	698.5	567.2	467.9	413.0	384.7	372.5	372.5
22.5°	1233.6	1155.6	972.6	777.9	616.4	490.5	407.0	365.2	348.9	340.7	340.4
25°	1235.8	1141.2	923.7	706.1	540.8	429.3	366.5	338.8	327.9	322.7	322.5
27.5°	1247.5	1134.4	878.5	634.6	474.7	383.4	339.3	319.8	312.7	309.4	309.4
30°	1268.7	1134.4	831.5	573.7	419.8	349.4	318.4	305.1	300.2	298.0	298.0
32.5°	1305.7	1140.6	786.1	513.4	376.0	322.7	301.0	292.0	288.2	287.1	287.1
35°	1369.3	1161.8	741.8	456.3	340.7	301.0	284.4	279.2	276.5	276.3	277.1
37.5°	1458.8	1205.1	700.1	414.1	315.7	283.3	270.5	266.5	264.8	266.2	267.3
40°	1571.3	1263.8	662.4	376.0	296.6	269.2	257.8	255.0	254.2	256.1	257.8
42.5°	1707.3	1343.2	631.4	348.6	282.0	257.2	246.9	243.6	242.8	245.0	247.2
45°	1854.4	1428.6	609.6	328.2	270.5	248.2	237.4	233.8	232.2	233.3	235.7
47.5°	1988.2	1509.3	600.9	313.8	259.7	240.6	228.9	224.6	221.9	221.3	223.2
50°	2101.0	1569.4	605.0	305.1	251.0	232.2	220.8	215.9	211.8	209.4	210.7
52.5°	2183.1	1607.2	608.8	301.3	244.2	223.0	211.8	207.2	201.8	197.7	197.7
55°	2242.7	1615.9	600.4	298.3	239.0	212.9	201.8	197.4	192.0	187.3	186.8
57.5°	2266.0	1591.4	569.1	293.9	235.5	203.4	191.1	187.9	183.3	177.8	177.6
60°	2234.5	1515.9	508.7	284.7	230.8	195.5	180.5	178.4	176.2	171.0	170.8
62.5°	2107.8	1350.0	430.7	265.9	221.6	187.1	170.8	171.8	172.1	168.6	168.0
65°	1878.0	1122.1	354.6	241.4	207.7	177.0	160.7	165.9	168.9	168.3	167.5
67.5°	1544.1	873.4	300.5	215.6	189.5	163.1	149.8	155.8	158.2	160.2	159.6
70°	1146.1	615.9	248.5	188.4	167.5	146.8	135.7	138.7	137.0	139.2	140.0
72.5°	639.0	369.5	202.6	161.2	144.7	127.8	119.9	119.4	115.8	115.8	115.8
74°	383.4	271.1	178.1	144.4	130.8	115.3	108.5	106.0	102.8	103.1	102.8
75°	308.3	233.0	163.4	133.2	121.0	107.9	101.1	97.9	95.4	95.4	95.2
77.5°	194.7	177.0	131.6	106.0	96.8	88.9	84.3	79.9	79.9	79.7	79.4
80°	147.1	140.8	102.5	80.2	74.2	68.2	65.3	63.4	63.4	64.2	63.9
82.5°	100.9	106.0	72.1	56.0	53.0	48.7	48.1	48.4	47.6	46.5	46.2
85°	73.7	79.7	48.7	35.3	32.4	29.6	31.8	32.9	31.5	29.1	28.0
87.5°	28.3	52.2	26.1	14.7	13.6	11.7	13.6	14.1	15.2	12.0	12.2
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)