

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386160

Luminaire Tested: GAW-SA1D-740-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-740-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6864 lumens
Efficiency: N/A
Efficacy: 102.4 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

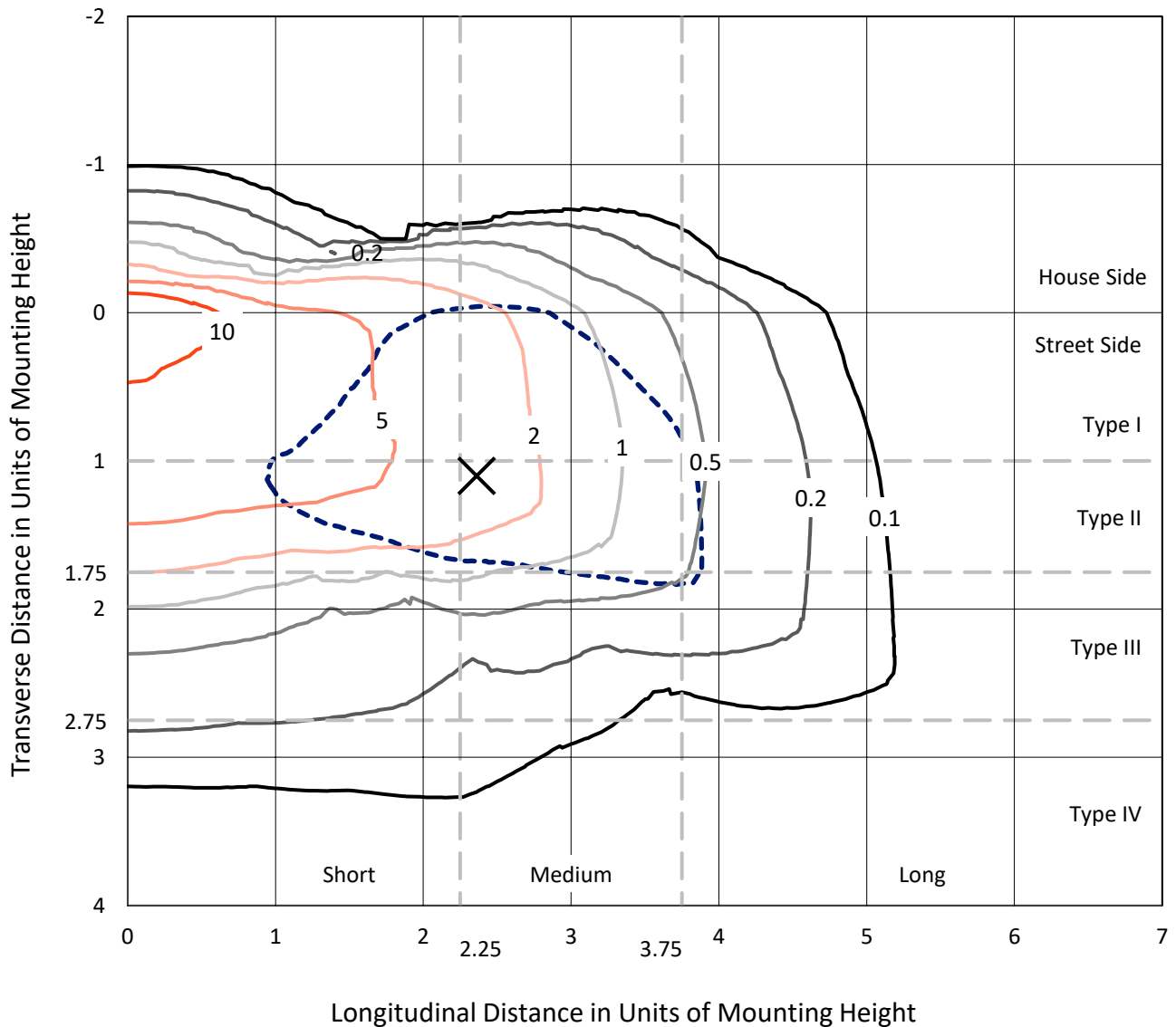
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

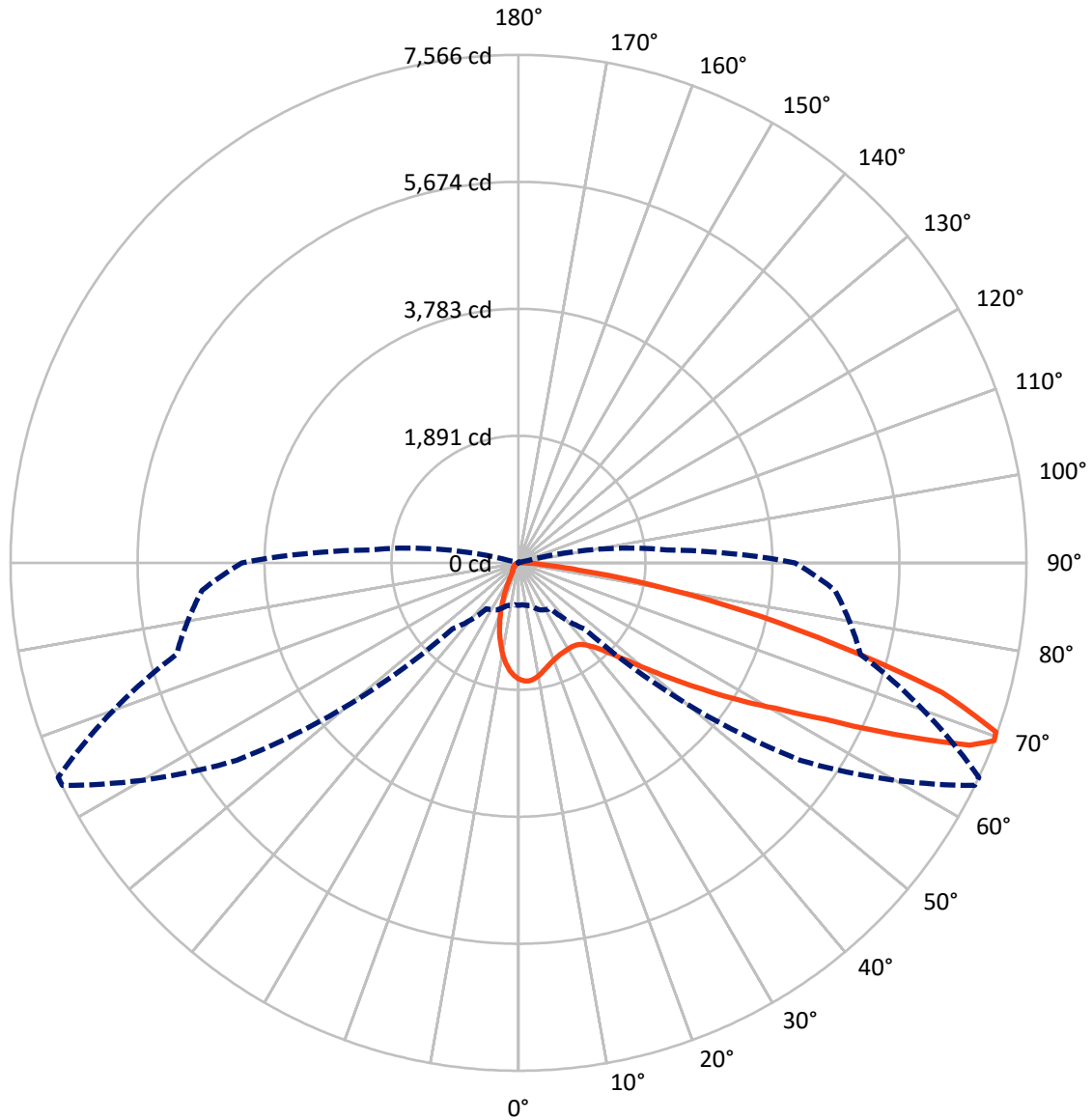
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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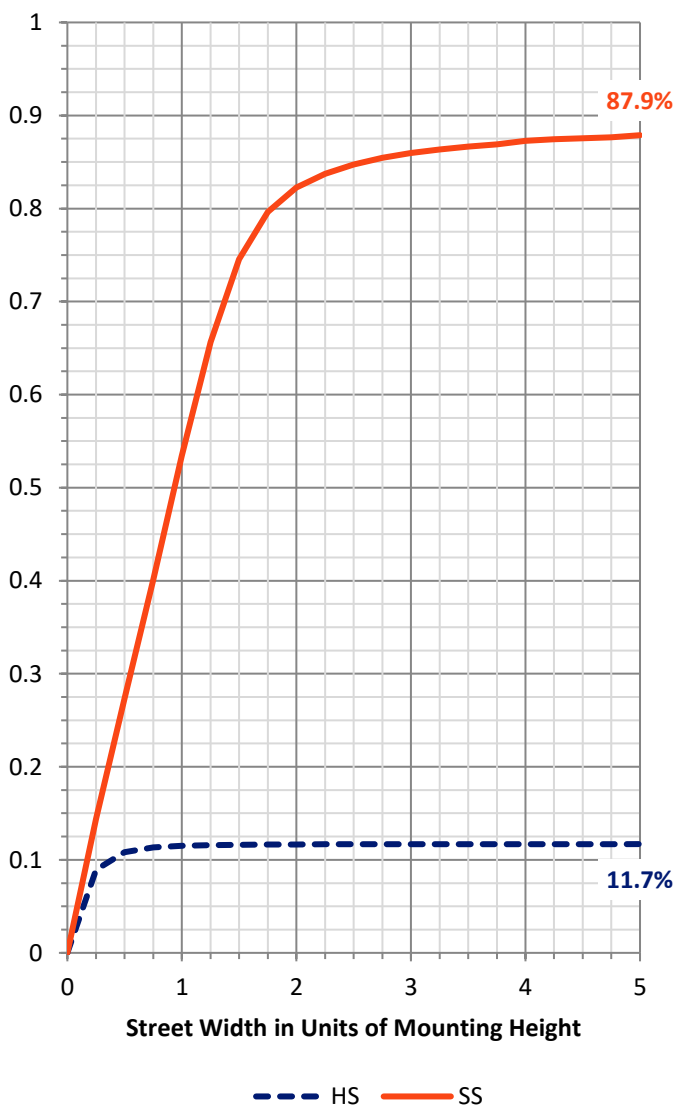
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.1	0.0	809.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6054.9	0.0	6054.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	6864.0	0.0	6864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	2.1
10°-20°	317.5	4.6
20°-30°	439.8	6.4
30°-40°	613.2	8.9
40°-50°	953.1	13.9
50°-60°	1530.0	22.3
60°-70°	1730.7	25.2
70°-80°	1016.5	14.8
80°-90°	118.2	1.7
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°	6864.0	100.0
0°-180°	6864.0	100.0

Coefficient of Utilization

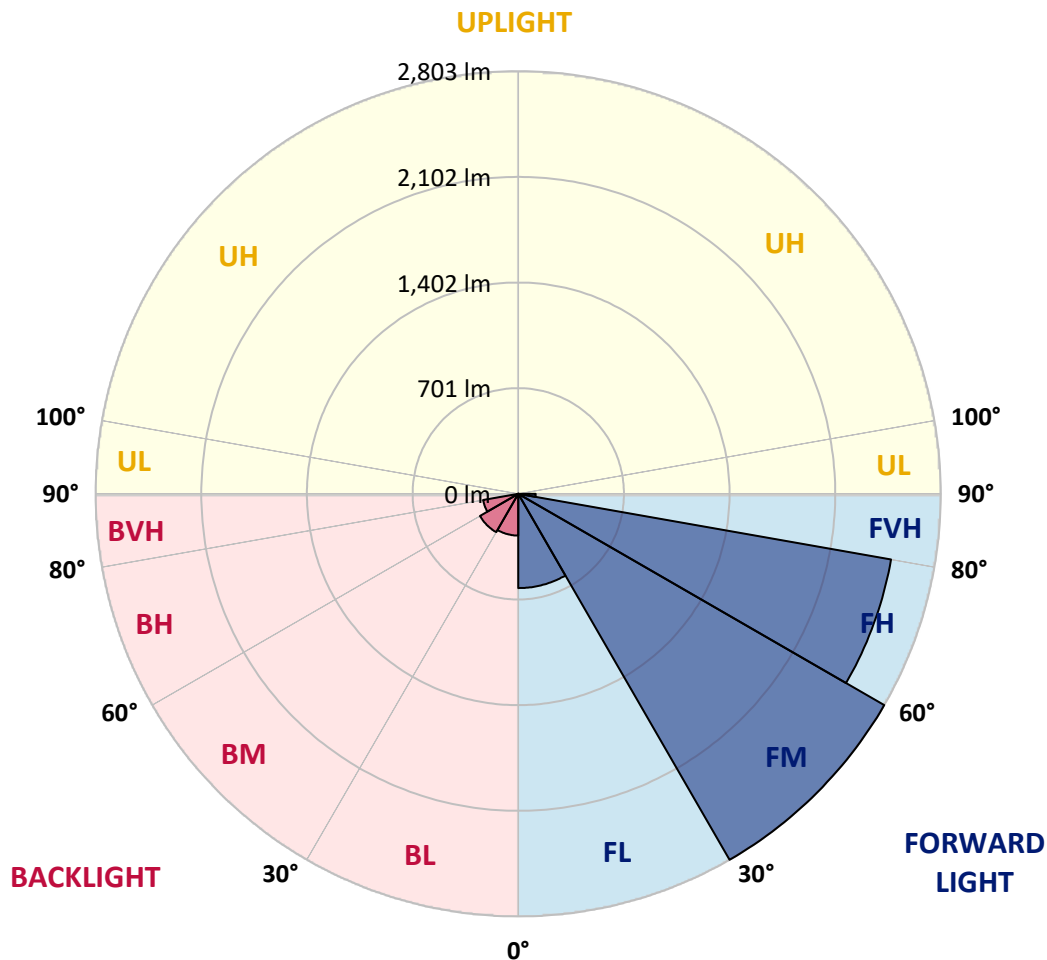


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.5	9.1			
FM (30°-60°)	2803.1	40.8			
FH (60°-80°)	2510.8	36.6			G2/5000
FVH (80°-90°)	115.6	1.7			G2/225
BL (0°-30°)	276.8	4.0	B1/500		
BM (30°-60°)	293.2	4.3	B1/1000		
BH (60°-80°)	236.4	3.4	B1/500		G1/500
BVH (80°-90°)	2.7	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°	55°	64°	65°	75°	85°
0°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1749.9	1745.6	1749.1	1756.6	1760.4	1760.4	1763.3	1759.8	1761.0	1752.6	1740.4
5°	1640.4	1633.8	1643.3	1664.5	1690.7	1713.1	1746.2	1763.6	1765.3	1765.6	1751.4
7.5°	1522.5	1516.4	1530.7	1555.6	1589.3	1630.9	1688.7	1739.2	1742.1	1769.4	1758.9
10°	1426.7	1422.3	1438.9	1465.6	1505.1	1551.6	1622.4	1692.7	1701.1	1761.6	1757.8
12.5°	1350.6	1347.1	1362.8	1393.6	1433.9	1485.3	1559.4	1641.0	1652.3	1743.8	1752.0
15°	1295.1	1294.5	1307.6	1337.2	1381.9	1429.9	1505.7	1593.1	1606.2	1724.7	1751.1
17.5°	1266.1	1266.9	1276.5	1301.8	1340.1	1387.8	1460.4	1552.7	1567.0	1707.5	1755.5
20°	1263.2	1264.0	1269.2	1283.5	1314.6	1356.7	1423.5	1518.7	1533.6	1694.8	1762.4
22.5°	1288.7	1288.1	1289.6	1288.1	1305.6	1337.5	1399.1	1492.6	1509.7	1686.3	1767.9
25°	1337.8	1336.9	1336.3	1325.6	1314.0	1331.1	1388.9	1477.8	1494.1	1680.2	1771.1
27.5°	1406.1	1405.5	1404.6	1386.9	1352.0	1341.3	1390.1	1472.3	1485.9	1675.3	1770.6
30°	1495.8	1499.9	1498.7	1474.0	1419.7	1372.4	1402.3	1469.4	1481.3	1665.7	1764.5
32.5°	1601.2	1609.4	1615.8	1589.3	1521.4	1433.9	1430.4	1472.6	1481.3	1658.4	1753.4
35°	1710.7	1721.2	1744.7	1735.4	1646.0	1526.6	1479.0	1491.7	1499.0	1662.5	1748.2
37.5°	1818.5	1831.0	1882.1	1909.1	1809.2	1649.2	1554.5	1539.1	1542.9	1687.2	1754.0
40°	1943.7	1962.5	2040.1	2083.7	2004.1	1813.3	1667.5	1620.4	1621.9	1741.5	1781.0
42.5°	2108.1	2127.5	2211.5	2279.7	2223.7	2020.6	1820.8	1744.7	1743.3	1843.2	1844.6
45°	2308.5	2328.8	2415.6	2491.4	2466.2	2266.4	2017.1	1926.2	1924.5	2003.5	1965.2
47.5°	2535.6	2555.6	2633.2	2711.3	2738.6	2553.3	2267.2	2174.0	2169.9	2226.3	2151.3
50°	2730.5	2743.6	2815.0	2920.1	3043.3	2905.9	2578.3	2488.5	2484.2	2522.2	2424.6
52.5°	2801.4	2808.9	2881.5	3028.8	3336.1	3383.4	2986.9	2871.4	2868.2	2884.7	2788.6
55°	2657.9	2671.5	2760.7	2979.1	3494.6	3923.1	3502.8	3345.4	3321.3	3285.5	3169.1
57.5°	2266.9	2288.7	2384.6	2675.0	3420.6	4351.2	4260.8	3881.5	3846.1	3627.7	3478.4
60°	1698.5	1725.3	1804.8	2118.2	3025.3	4503.7	5089.2	4479.0	4399.1	3900.1	3762.7
62.5°	1165.6	1178.9	1232.9	1437.1	2228.0	4253.9	5782.2	5279.2	5133.3	4196.4	4070.3
65°	890.2	894.9	916.9	987.2	1326.8	3455.4	6057.8	6334.9	6158.6	4550.7	4389.5
67.5°	717.4	713.6	744.1	844.6	888.5	2108.1	5736.3	7333.8	7251.3	5024.4	4710.7
69°	632.6	627.4	658.4	775.2	834.5	1393.6	5128.1	7560.6	7565.8	5274.5	4732.8
70°	569.3	572.8	603.5	734.0	816.2	1093.8	4547.2	7502.8	7544.1	5368.0	4600.4
72.5°	380.2	389.5	451.4	609.4	784.8	827.8	2745.6	6438.3	6596.9	5157.5	3946.9
75°	214.3	221.3	294.8	459.5	739.5	788.3	1450.2	4743.3	4896.6	4312.8	3043.6
77.5°	105.1	108.9	166.7	296.5	618.4	751.1	822.5	3221.9	3397.1	2815.0	1721.5
80°	44.4	46.5	83.4	183.0	442.1	716.8	610.8	1982.9	2004.7	1102.8	458.6
82.5°	17.1	17.7	35.1	114.1	280.9	558.8	510.9	940.2	917.5	207.7	104.6
85°	2.0	2.3	12.8	68.5	156.3	287.5	415.0	405.2	375.0	41.2	53.7
87.5°	0.0	0.0	0.9	20.9	46.5	134.8	215.8	168.2	151.6	13.4	27.9
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°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1730.2	1727.3	1711.6	1688.9	1667.5	1640.7	1615.2	1599.8	1587.6	1579.4	1589.0
5°	1734.8	1722.1	1674.4	1613.4	1553.6	1486.2	1423.5	1370.3	1349.4	1326.2	1336.6
7.5°	1733.4	1709.3	1623.6	1515.0	1405.2	1291.6	1184.1	1101.4	1058.4	1016.3	1027.0
10°	1726.1	1685.5	1555.6	1394.7	1230.3	1067.1	914.6	798.7	734.0	675.3	683.7
12.5°	1710.1	1653.5	1475.5	1257.1	1037.2	822.0	643.3	494.9	415.3	380.2	384.6
15°	1700.6	1622.4	1390.7	1117.6	831.0	572.5	393.3	292.5	256.2	244.6	246.0
17.5°	1695.9	1592.5	1302.9	958.2	620.1	364.5	254.1	224.2	216.4	214.3	214.9
20°	1691.3	1562.3	1212.6	800.5	427.2	245.1	208.8	200.1	197.2	194.6	195.2
22.5°	1683.4	1533.3	1115.6	640.7	288.1	199.0	188.2	179.8	173.7	170.5	171.1
25°	1673.8	1502.8	1016.6	477.2	210.3	177.5	167.3	155.4	148.1	142.3	142.6
27.5°	1658.4	1465.3	914.3	347.4	176.6	158.9	145.2	132.2	120.0	113.3	113.3
30°	1637.0	1422.9	800.8	248.6	158.3	140.6	124.0	107.8	94.7	88.6	88.0
32.5°	1613.1	1378.7	686.0	188.5	143.8	123.4	104.6	87.4	75.8	70.9	70.6
35°	1592.8	1331.1	571.6	158.0	129.2	106.9	86.3	71.7	62.4	58.4	58.1
37.5°	1579.7	1283.5	460.1	141.2	116.2	91.5	72.3	59.3	52.6	49.4	49.1
40°	1577.7	1248.0	358.1	128.4	104.0	77.8	60.4	50.2	44.1	40.7	40.4
42.5°	1604.1	1227.7	274.8	117.6	91.5	65.9	51.4	43.0	36.6	33.1	32.8
45°	1673.6	1234.1	211.4	108.0	79.0	55.8	43.6	35.7	29.9	27.3	26.7
47.5°	1800.2	1278.3	168.2	98.5	67.1	47.3	37.2	29.6	24.7	22.1	21.8
50°	2025.6	1381.9	140.6	88.0	56.1	40.4	30.8	24.1	20.0	17.7	17.4
52.5°	2324.7	1566.7	125.5	77.8	46.5	34.3	25.3	19.2	15.7	13.9	13.7
55°	2654.7	1790.3	115.6	66.8	38.0	28.5	20.0	15.1	12.2	10.7	10.2
57.5°	2976.8	1984.0	106.3	56.1	31.7	23.2	16.0	11.9	9.6	8.1	7.8
60°	3272.7	2162.1	95.6	45.0	25.8	18.3	12.5	9.3	7.6	6.1	6.1
62.5°	3589.6	2299.8	80.7	35.1	21.2	13.9	10.2	8.4	6.1	5.2	4.9
65°	3925.4	2402.0	63.3	27.3	16.6	10.5	8.4	8.7	4.9	3.8	3.5
67.5°	4173.4	2381.7	46.8	21.5	12.8	8.1	8.1	9.3	4.4	2.9	2.6
69°	4118.8	2216.4	39.2	18.6	11.0	7.0	7.6	9.3	4.1	2.6	2.3
70°	3960.5	2033.4	34.6	16.6	9.9	6.4	7.3	9.0	3.8	2.6	2.3
72.5°	3298.3	1531.5	27.0	12.5	7.8	5.2	6.1	7.8	3.8	2.6	2.0
75°	2481.0	980.3	20.6	9.0	5.8	4.1	4.6	5.8	3.8	2.3	2.0
77.5°	1350.0	353.5	14.8	6.1	4.1	3.2	3.2	4.4	3.5	1.7	1.2
80°	347.1	88.9	9.3	4.1	3.2	2.3	2.0	2.9	2.0	0.3	0.0
82.5°	85.7	20.0	4.9	2.9	2.3	0.9	0.9	1.5	0.9	0.0	0.0
85°	47.1	9.9	3.2	2.0	1.2	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	24.1	2.9	0.9	0.6	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)