

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: P386470

Luminaire Tested: GAW-SA2A-827-U-SL3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-827-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6108 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

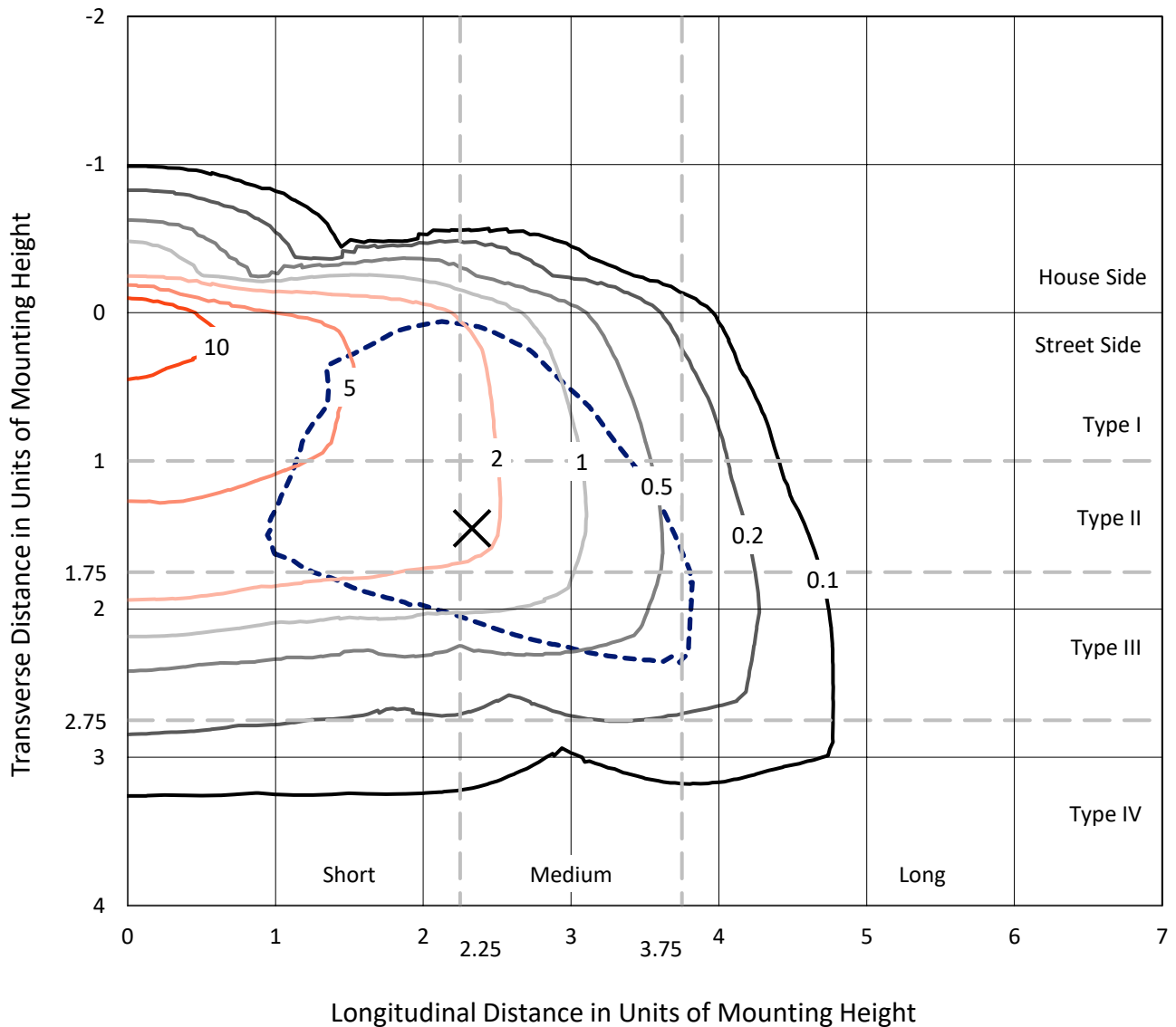
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

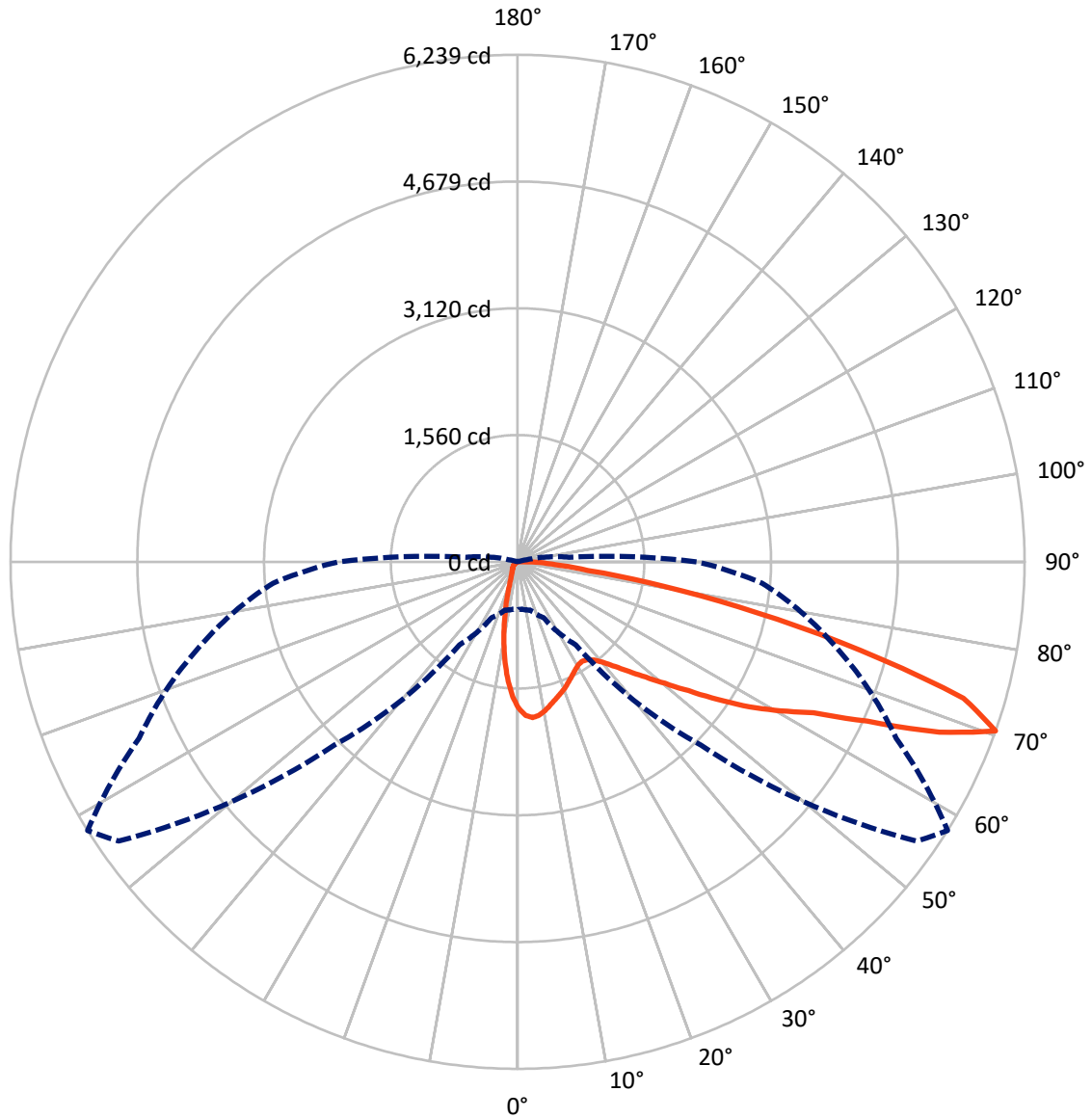
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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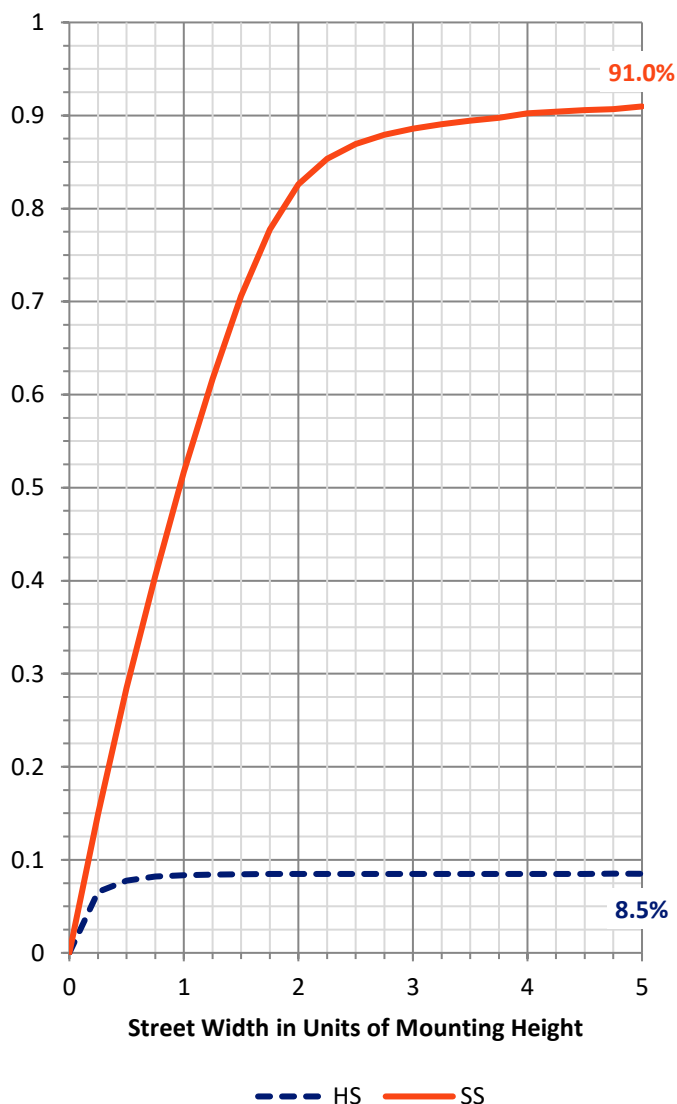
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	522.7	0.0	522.7
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	5585.3	0.0	5585.3
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	6108.0	0.0	6108.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.5	2.4
10°-20°	309.7	5.1
20°-30°	407.1	6.7
30°-40°	539.2	8.8
40°-50°	805.9	13.2
50°-60°	1291.0	21.1
60°-70°	1627.2	26.6
70°-80°	877.7	14.4
80°-90°	102.7	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°	6108.0	100.0
0°-180°	6108.0	100.0

**Coefficient of Utilization**

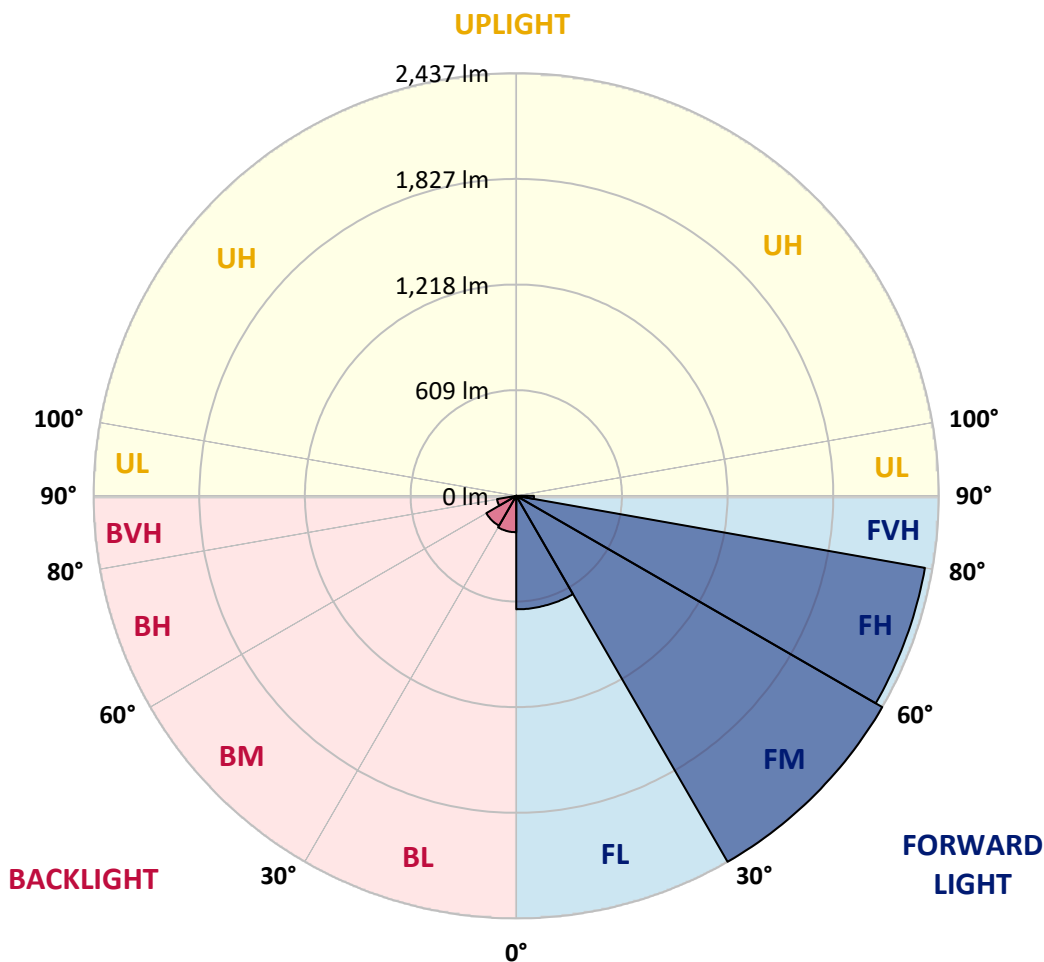


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.3	10.7			
FM (30°-60°)	2436.6	39.9			
FH (60°-80°)	2392.6	39.2			G2/5000
FVH (80°-90°)	101.9	1.7			G2/225
BL (0°-30°)	210.0	3.4	B1/500		
BM (30°-60°)	199.4	3.3	B0/220		
BH (60°-80°)	112.4	1.8	B1/500		G1/500
BVH (80°-90°)	0.9	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°	58°	65°	75°	85°
0°	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3
2.5°	1953.9	1949.0	1947.3	1944.2	1932.5	1921.1	1898.5	1892.2	1877.9	1844.1	1808.3
5°	1955.4	1955.1	1960.5	1959.2	1955.1	1949.8	1933.6	1925.2	1901.0	1852.8	1787.3
7.5°	1861.2	1866.0	1877.9	1887.6	1898.8	1913.2	1915.3	1907.1	1887.3	1835.3	1748.4
10°	1734.7	1742.3	1759.1	1778.1	1807.3	1836.3	1862.2	1861.2	1854.3	1803.0	1701.7
12.5°	1607.9	1616.8	1636.1	1664.3	1705.7	1753.0	1799.2	1805.5	1817.0	1774.1	1658.5
15°	1497.0	1504.6	1523.6	1558.2	1609.5	1673.0	1740.8	1752.5	1781.9	1751.4	1622.4
17.5°	1402.7	1407.6	1421.5	1459.9	1519.3	1596.3	1684.4	1707.3	1751.2	1733.7	1591.2
20°	1337.0	1337.7	1346.9	1373.8	1433.2	1519.3	1626.0	1658.7	1718.7	1718.4	1558.9
22.5°	1304.4	1301.9	1303.7	1319.2	1362.9	1445.9	1567.6	1606.4	1689.5	1705.5	1526.2
25°	1298.3	1296.3	1291.2	1293.3	1319.7	1381.7	1508.6	1553.6	1663.8	1697.6	1497.7
27.5°	1317.4	1319.4	1310.8	1301.6	1303.7	1340.0	1456.3	1508.4	1643.0	1697.6	1477.7
30°	1355.7	1356.8	1350.4	1338.5	1322.5	1328.3	1420.0	1472.1	1632.6	1709.3	1465.0
32.5°	1398.2	1403.7	1403.0	1393.3	1370.5	1346.9	1411.4	1458.9	1631.8	1735.2	1463.7
35°	1450.7	1457.1	1467.8	1465.7	1441.8	1403.0	1440.8	1478.2	1646.8	1777.9	1477.4
37.5°	1506.6	1516.3	1539.1	1550.0	1534.5	1490.6	1506.9	1533.5	1686.9	1846.9	1512.2
40°	1560.7	1571.6	1613.3	1656.2	1644.5	1599.3	1606.9	1628.3	1758.3	1946.2	1578.2
42.5°	1613.8	1630.0	1691.3	1761.9	1775.8	1739.8	1743.8	1760.8	1864.2	2082.9	1686.2
45°	1677.3	1695.6	1786.2	1873.4	1910.7	1894.9	1912.2	1923.4	2002.6	2263.5	1831.7
47.5°	1770.5	1791.6	1902.8	2002.1	2067.7	2077.8	2112.6	2120.0	2177.6	2473.8	2021.4
50°	1952.3	1958.2	2058.8	2148.9	2243.4	2304.4	2344.0	2349.6	2389.4	2703.6	2258.4
52.5°	2181.2	2185.0	2241.9	2302.3	2409.8	2534.2	2626.9	2634.8	2643.2	2927.6	2492.3
55°	2408.5	2408.0	2445.6	2481.1	2604.1	2784.9	2986.0	2990.9	2930.7	3140.2	2671.1
57.5°	2550.5	2564.2	2621.3	2667.0	2838.7	3070.6	3349.7	3367.5	3232.7	3297.7	2847.9
60°	2505.3	2511.9	2638.6	2807.7	3131.1	3476.7	3717.8	3722.3	3459.7	3454.9	3071.4
62.5°	2134.4	2138.0	2337.1	2685.8	3279.1	4003.5	4161.7	4087.3	3720.8	3673.1	3338.8
65°	1462.9	1486.0	1652.4	2083.4	3007.1	4333.9	4849.0	4725.8	4118.8	3987.5	3580.6
67.5°	861.5	856.7	939.0	1256.4	2208.6	4114.5	5718.4	5595.9	4661.5	4198.0	3509.8
70°	588.5	585.2	616.7	760.7	1246.8	3191.8	5991.9	6239.0	5140.8	4056.3	3020.6
72.5°	420.1	421.9	468.3	591.0	782.8	1859.6	5152.7	5737.7	4990.7	3536.2	2296.0
75°	285.2	290.0	356.6	484.8	686.3	946.1	3656.6	4361.6	4063.9	2570.0	1319.7
77.5°	153.4	158.7	237.2	390.6	620.5	657.3	2352.1	3001.8	2552.8	1155.4	382.5
80°	64.0	67.1	111.0	283.9	536.2	577.3	1383.9	1820.3	1087.8	227.8	85.3
82.5°	27.7	29.2	46.2	169.4	400.8	487.4	732.7	875.7	329.7	50.0	42.9
85°	5.3	5.6	19.0	89.7	255.8	275.1	474.9	465.5	148.1	21.6	31.2
87.5°	0.0	0.0	4.6	28.2	75.2	149.8	289.8	286.2	50.3	10.4	11.7
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°	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3	1804.3
2.5°	1790.1	1772.5	1735.7	1690.2	1655.4	1617.1	1586.6	1548.0	1531.2	1532.0	1522.9
5°	1749.9	1713.9	1632.3	1529.5	1450.2	1368.4	1298.1	1228.0	1186.6	1173.1	1160.4
7.5°	1692.5	1635.4	1505.3	1346.9	1212.8	1081.7	967.7	867.3	803.8	772.9	761.4
10°	1627.8	1547.5	1359.3	1150.5	959.0	781.8	633.9	505.4	454.1	419.3	410.4
12.5°	1570.9	1462.2	1216.6	949.1	721.8	508.0	367.0	287.0	252.2	238.5	236.2
15°	1517.3	1382.4	1079.2	766.8	499.8	312.6	233.4	206.2	198.1	195.8	195.8
17.5°	1466.7	1306.5	944.8	587.2	330.7	219.2	193.3	187.2	184.6	184.4	184.6
20°	1413.9	1230.5	812.7	430.2	230.9	185.7	178.5	175.2	174.5	174.5	174.5
22.5°	1363.4	1154.6	684.2	307.3	185.2	169.4	165.8	163.6	162.8	162.5	162.0
25°	1314.9	1082.5	558.8	217.2	162.5	155.2	152.1	149.1	146.8	145.5	144.8
27.5°	1275.0	1018.2	441.9	174.2	146.8	140.5	136.6	132.1	126.5	123.9	122.9
30°	1243.2	959.5	340.6	147.1	132.1	125.7	119.9	112.0	103.9	99.6	99.3
32.5°	1218.3	901.9	258.6	130.0	118.9	111.0	102.6	92.7	83.3	78.5	78.2
35°	1206.2	851.1	197.6	117.6	107.2	97.3	86.9	75.9	66.8	62.2	61.7
37.5°	1214.3	808.2	154.2	107.2	97.3	85.8	73.7	62.2	54.1	50.0	49.8
40°	1244.0	780.7	125.2	98.3	88.9	74.9	61.7	51.0	44.2	40.9	40.6
42.5°	1307.2	770.6	106.9	90.9	80.8	64.8	51.3	42.2	35.8	33.5	33.0
45°	1412.9	785.6	94.5	83.8	72.4	55.1	42.4	34.5	29.0	27.2	26.9
47.5°	1553.6	824.9	85.6	77.0	64.8	46.5	35.3	27.9	23.6	21.8	21.6
50°	1734.9	887.4	78.2	70.1	57.7	39.4	29.2	22.1	18.3	17.0	17.0
52.5°	1932.3	961.8	71.6	63.7	50.5	32.8	23.6	17.0	14.5	13.0	13.0
55°	2095.3	1026.8	64.5	58.9	41.9	27.2	18.0	13.0	10.7	9.9	9.9
57.5°	2258.1	1096.2	56.4	50.5	33.5	22.1	13.7	9.7	7.9	7.4	7.4
60°	2469.2	1181.0	48.5	41.1	26.4	16.8	10.2	6.9	5.8	5.6	5.6
62.5°	2701.3	1230.8	41.4	33.0	20.6	12.4	7.4	4.6	4.3	4.3	4.1
65°	2843.3	1160.4	34.8	26.4	16.0	9.4	4.8	3.3	3.8	3.6	3.0
67.5°	2662.2	908.5	28.4	20.6	12.4	7.1	3.0	2.3	4.1	3.3	2.5
70°	2204.3	636.0	22.1	14.5	9.9	6.1	2.0	1.5	4.3	3.3	2.0
72.5°	1649.6	425.7	17.5	9.7	7.4	5.3	1.8	0.8	3.8	2.8	1.8
75°	901.4	171.4	14.0	6.1	4.6	3.8	1.3	0.5	2.5	2.0	1.3
77.5°	237.2	45.2	10.2	4.1	2.5	1.5	0.8	0.3	1.3	1.0	0.5
80°	60.4	17.5	6.6	2.8	1.8	0.8	0.0	0.0	0.3	0.0	0.0
82.5°	32.3	7.4	4.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.4	4.8	2.3	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	1.5	0.8	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)