

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: P386106

Luminaire Tested: GAW-SA1D-727-U-SL3-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386106  
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-SA1D-727-U-SL3-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS 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: 5920 lumens  
Efficiency: N/A  
Efficacy: 88.4 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

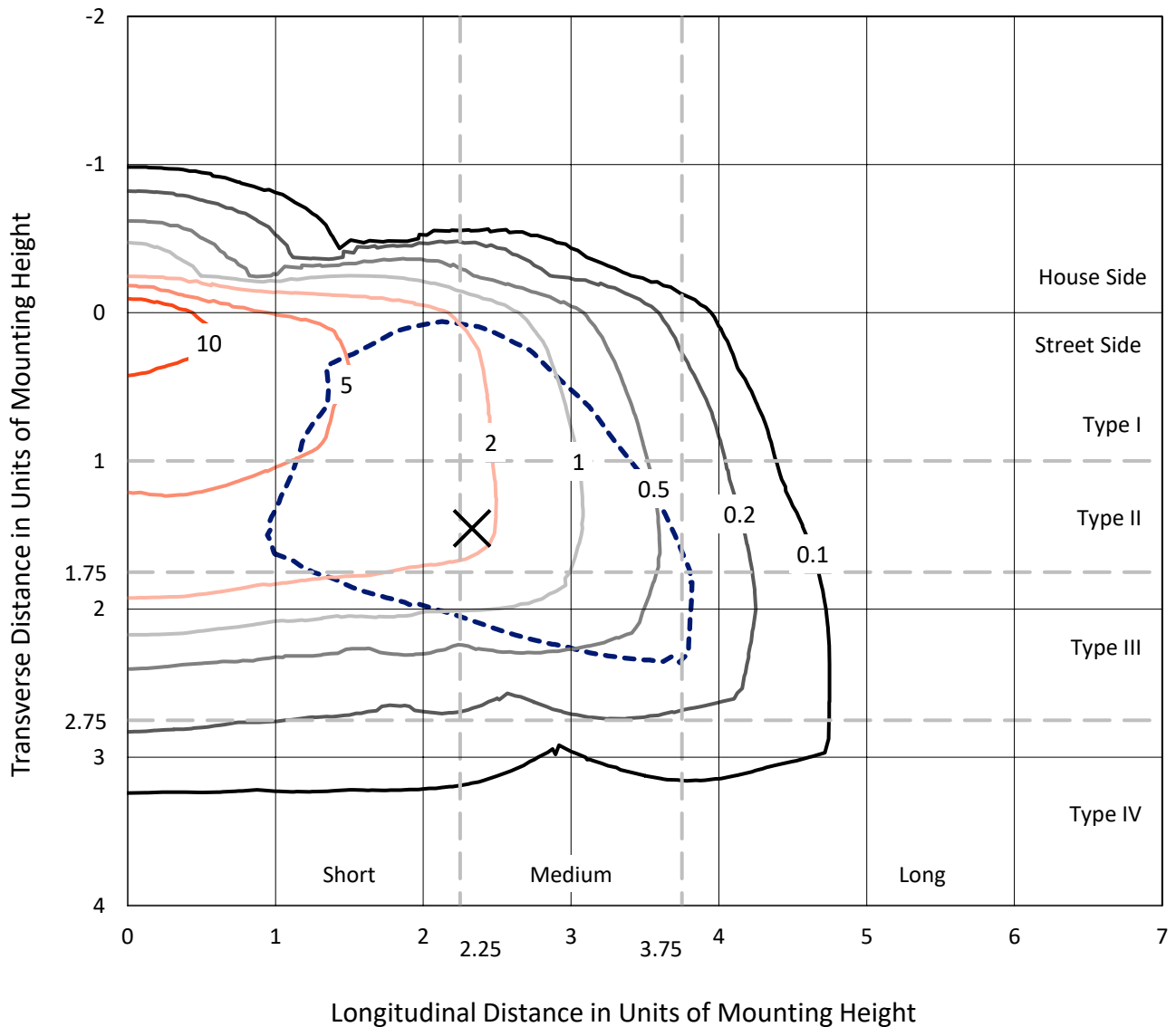
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

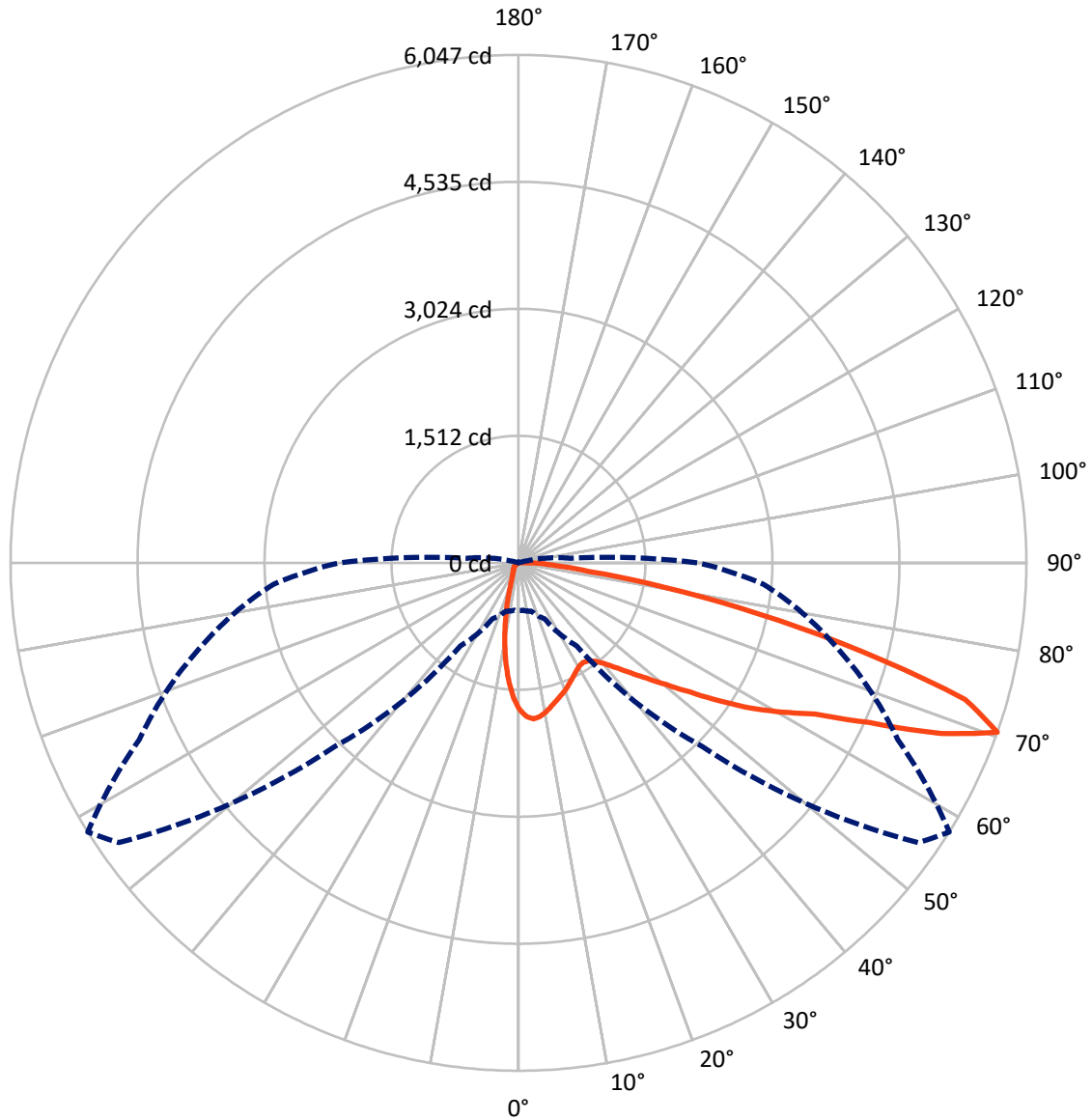
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 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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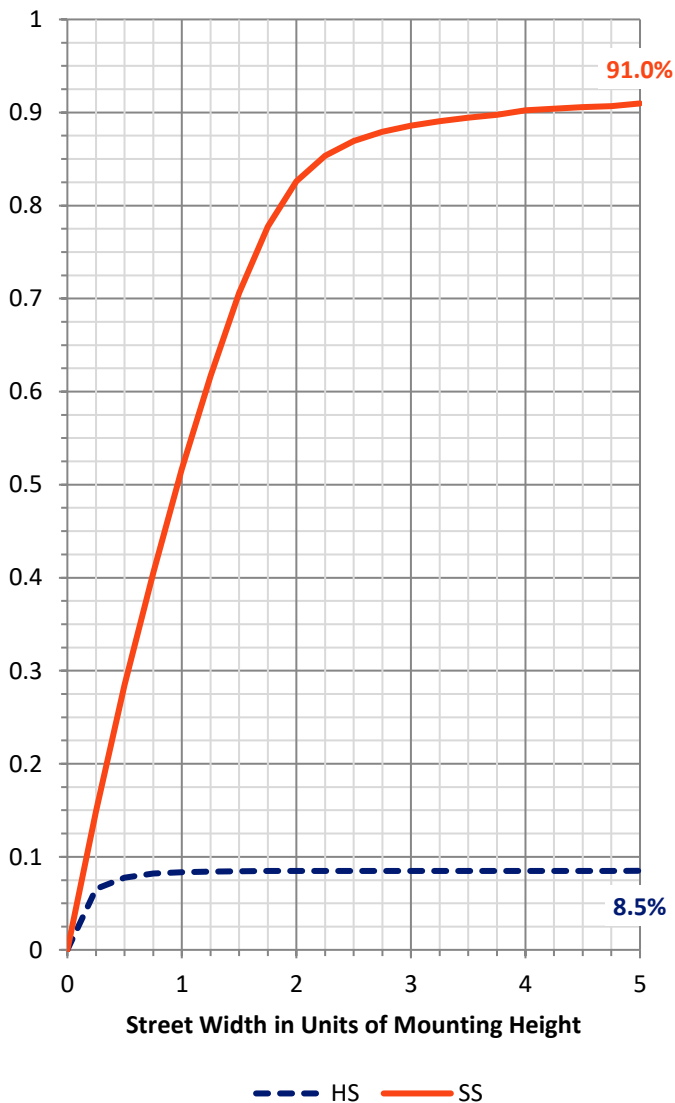
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	506.6	0.0	506.6
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	5413.4	0.0	5413.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	5920.0	0.0	5920.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	2.4
10°-20°	300.1	5.1
20°-30°	394.6	6.7
30°-40°	522.6	8.8
40°-50°	781.1	13.2
50°-60°	1251.2	21.1
60°-70°	1577.2	26.6
70°-80°	850.7	14.4
80°-90°	99.6	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°	5920.0	100.0
0°-180°	5920.0	100.0

**Coefficient of Utilization**



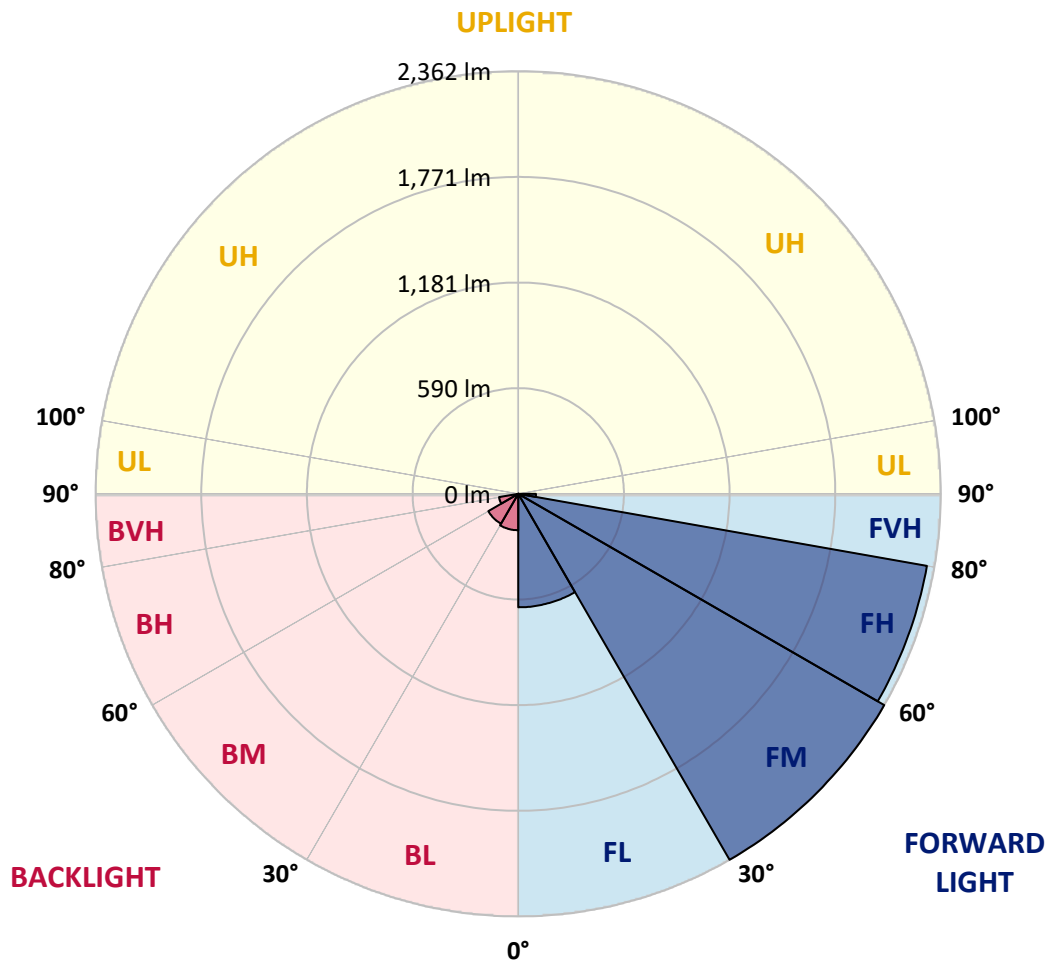
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.2	10.7			
FM (30°-60°)	2361.6	39.9			
FH (60°-80°)	2318.9	39.2			G2/5000
FVH (80°-90°)	98.7	1.7			G1/100
BL (0°-30°)	203.5	3.4	B1/500		
BM (30°-60°)	193.3	3.3	B0/220		
BH (60°-80°)	108.9	1.8	B0/110		G0/110
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°	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7
2.5°	1893.7	1889.1	1887.3	1884.4	1873.1	1862.0	1840.1	1833.9	1820.1	1787.4	1752.7
5°	1895.2	1895.0	1900.1	1898.9	1895.0	1889.8	1874.0	1865.9	1842.5	1795.8	1732.2
7.5°	1803.9	1808.6	1820.1	1829.5	1840.3	1854.3	1856.3	1848.4	1829.2	1778.8	1694.6
10°	1681.3	1688.7	1704.9	1723.4	1751.7	1779.8	1804.9	1803.9	1797.2	1747.5	1649.3
12.5°	1558.5	1567.1	1585.8	1613.1	1653.2	1699.0	1743.8	1750.0	1761.0	1719.4	1607.4
15°	1450.9	1458.3	1476.7	1510.2	1559.9	1621.5	1687.2	1698.5	1727.1	1697.5	1572.5
17.5°	1359.6	1364.2	1377.8	1414.9	1472.5	1547.1	1632.6	1654.7	1697.3	1680.3	1542.2
20°	1295.8	1296.5	1305.4	1331.5	1389.1	1472.5	1575.9	1607.7	1665.8	1665.5	1510.9
22.5°	1264.3	1261.8	1263.6	1278.6	1320.9	1401.4	1519.3	1557.0	1637.5	1653.0	1479.2
25°	1258.4	1256.4	1251.5	1253.5	1279.1	1339.1	1462.2	1505.8	1612.6	1645.4	1451.6
27.5°	1276.8	1278.8	1270.4	1261.6	1263.6	1298.8	1411.5	1462.0	1592.4	1645.4	1432.2
30°	1314.0	1315.0	1308.8	1297.3	1281.8	1287.4	1376.3	1426.8	1582.3	1656.7	1419.9
32.5°	1355.1	1360.5	1359.8	1350.4	1328.3	1305.4	1367.9	1414.0	1581.6	1681.8	1418.6
35°	1406.1	1412.2	1422.6	1420.6	1397.5	1359.8	1396.5	1432.7	1596.1	1723.1	1431.9
37.5°	1460.2	1469.6	1491.7	1502.3	1487.3	1444.7	1460.5	1486.3	1635.0	1790.1	1465.7
40°	1512.7	1523.3	1563.6	1605.2	1593.9	1550.1	1557.5	1578.1	1704.2	1886.3	1529.7
42.5°	1564.1	1579.9	1639.2	1707.6	1721.2	1686.2	1690.2	1706.6	1806.8	2018.8	1634.3
45°	1625.7	1643.4	1731.3	1815.7	1851.9	1836.6	1853.4	1864.2	1941.0	2193.8	1775.3
47.5°	1716.0	1736.4	1844.3	1940.5	2004.0	2013.9	2047.6	2054.7	2110.6	2397.6	1959.2
50°	1892.3	1897.9	1995.4	2082.8	2174.4	2233.4	2271.8	2277.3	2315.9	2620.4	2188.9
52.5°	2114.0	2117.7	2172.9	2231.5	2335.6	2456.2	2546.1	2553.7	2561.8	2837.5	2415.6
55°	2334.4	2333.9	2370.3	2404.8	2523.9	2699.2	2894.1	2898.8	2840.5	3043.6	2588.9
57.5°	2472.0	2485.3	2540.6	2585.0	2751.4	2976.1	3246.6	3263.9	3133.2	3196.2	2760.2
60°	2428.1	2434.5	2557.4	2721.3	3034.7	3369.7	3603.3	3607.8	3353.2	3348.6	2976.8
62.5°	2068.8	2072.2	2265.2	2603.2	3178.2	3880.3	4033.6	3961.5	3606.3	3560.0	3236.1
65°	1417.9	1440.3	1601.5	2019.3	2914.6	4200.5	4699.7	4580.3	3992.0	3864.8	3470.4
67.5°	835.0	830.3	910.1	1217.8	2140.6	3987.8	5542.4	5423.7	4518.1	4068.8	3401.7
70°	570.4	567.2	597.7	737.3	1208.4	3093.5	5807.5	6047.0	4982.6	3931.5	2927.6
72.5°	407.2	408.9	453.9	572.8	758.7	1802.4	4994.1	5561.1	4837.1	3427.3	2225.3
75°	276.4	281.1	345.6	469.9	665.1	917.0	3544.0	4227.4	3938.8	2490.9	1279.1
77.5°	148.7	153.9	229.9	378.6	601.4	637.1	2279.7	2909.4	2474.2	1119.8	370.7
80°	62.0	65.0	107.6	275.2	519.6	559.5	1341.3	1764.2	1054.3	220.8	82.7
82.5°	26.8	28.3	44.8	164.2	388.4	472.4	710.2	848.8	319.5	48.5	41.6
85°	5.2	5.4	18.5	86.9	247.9	266.6	460.3	451.2	143.5	20.9	30.3
87.5°	0.0	0.0	4.4	27.3	72.9	145.2	280.9	277.4	48.7	10.1	11.3
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°	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7	1748.7
2.5°	1735.0	1718.0	1682.3	1638.2	1604.5	1567.3	1537.8	1500.4	1484.1	1484.9	1476.0
5°	1696.1	1661.1	1582.1	1482.4	1405.6	1326.3	1258.1	1190.2	1150.1	1137.0	1124.7
7.5°	1640.4	1585.0	1459.0	1305.4	1175.4	1048.4	937.9	840.6	779.1	749.1	738.0
10°	1577.7	1499.9	1317.5	1115.1	929.5	757.7	614.4	489.9	440.1	406.4	397.8
12.5°	1522.5	1417.2	1179.1	919.9	699.6	492.3	355.7	278.2	244.4	231.1	228.9
15°	1470.6	1339.9	1045.9	743.2	484.4	303.0	226.2	199.9	192.0	189.8	189.8
17.5°	1421.6	1266.3	915.7	569.1	320.5	212.4	187.3	181.4	179.0	178.7	179.0
20°	1370.4	1192.7	787.7	417.0	223.8	179.9	173.1	169.9	169.1	169.1	169.1
22.5°	1321.4	1119.1	663.2	297.9	179.5	164.2	160.7	158.5	157.8	157.5	157.1
25°	1274.4	1049.1	541.6	210.5	157.5	150.4	147.5	144.5	142.3	141.1	140.3
27.5°	1235.7	986.9	428.3	168.9	142.3	136.1	132.4	128.0	122.6	120.1	119.1
30°	1205.0	930.0	330.1	142.5	128.0	121.9	116.2	108.6	100.7	96.5	96.2
32.5°	1180.8	874.1	250.6	126.0	115.2	107.6	99.4	89.8	80.7	76.1	75.8
35°	1169.0	824.9	191.5	114.0	103.9	94.3	84.2	73.6	64.7	60.3	59.8
37.5°	1176.9	783.3	149.4	103.9	94.3	83.2	71.4	60.3	52.4	48.5	48.2
40°	1205.7	756.7	121.4	95.3	86.2	72.6	59.8	49.5	42.8	39.6	39.4
42.5°	1267.0	746.9	103.6	88.1	78.3	62.8	49.7	40.9	34.7	32.5	32.0
45°	1369.4	761.4	91.6	81.2	70.2	53.4	41.1	33.5	28.1	26.3	26.1
47.5°	1505.8	799.5	83.0	74.6	62.8	45.0	34.2	27.1	22.9	21.2	20.9
50°	1681.5	860.1	75.8	67.9	55.9	38.2	28.3	21.4	17.7	16.5	16.5
52.5°	1872.8	932.2	69.4	61.8	49.0	31.8	22.9	16.5	14.0	12.6	12.6
55°	2030.8	995.2	62.5	57.1	40.6	26.3	17.5	12.6	10.3	9.6	9.6
57.5°	2188.6	1062.4	54.6	49.0	32.5	21.4	13.3	9.4	7.6	7.1	7.1
60°	2393.2	1144.7	47.0	39.9	25.6	16.2	9.8	6.6	5.7	5.4	5.4
62.5°	2618.2	1192.9	40.1	32.0	19.9	12.1	7.1	4.4	4.2	4.2	3.9
65°	2755.8	1124.7	33.7	25.6	15.5	9.1	4.7	3.2	3.7	3.4	3.0
67.5°	2580.3	880.5	27.6	19.9	12.1	6.9	3.0	2.2	3.9	3.2	2.5
70°	2136.4	616.4	21.4	14.0	9.6	5.9	2.0	1.5	4.2	3.2	2.0
72.5°	1598.8	412.6	17.0	9.4	7.1	5.2	1.7	0.7	3.7	2.7	1.7
75°	873.6	166.2	13.5	5.9	4.4	3.7	1.2	0.5	2.5	2.0	1.2
77.5°	229.9	43.8	9.8	3.9	2.5	1.5	0.7	0.2	1.2	1.0	0.5
80°	58.6	17.0	6.4	2.7	1.7	0.7	0.0	0.0	0.2	0.0	0.0
82.5°	31.3	7.1	3.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.6	4.7	2.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	1.5	0.7	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)