

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: P386051

Luminaire Tested: GAW-SA1C-830-U-SL3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1C-830-U-SL3  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6004 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

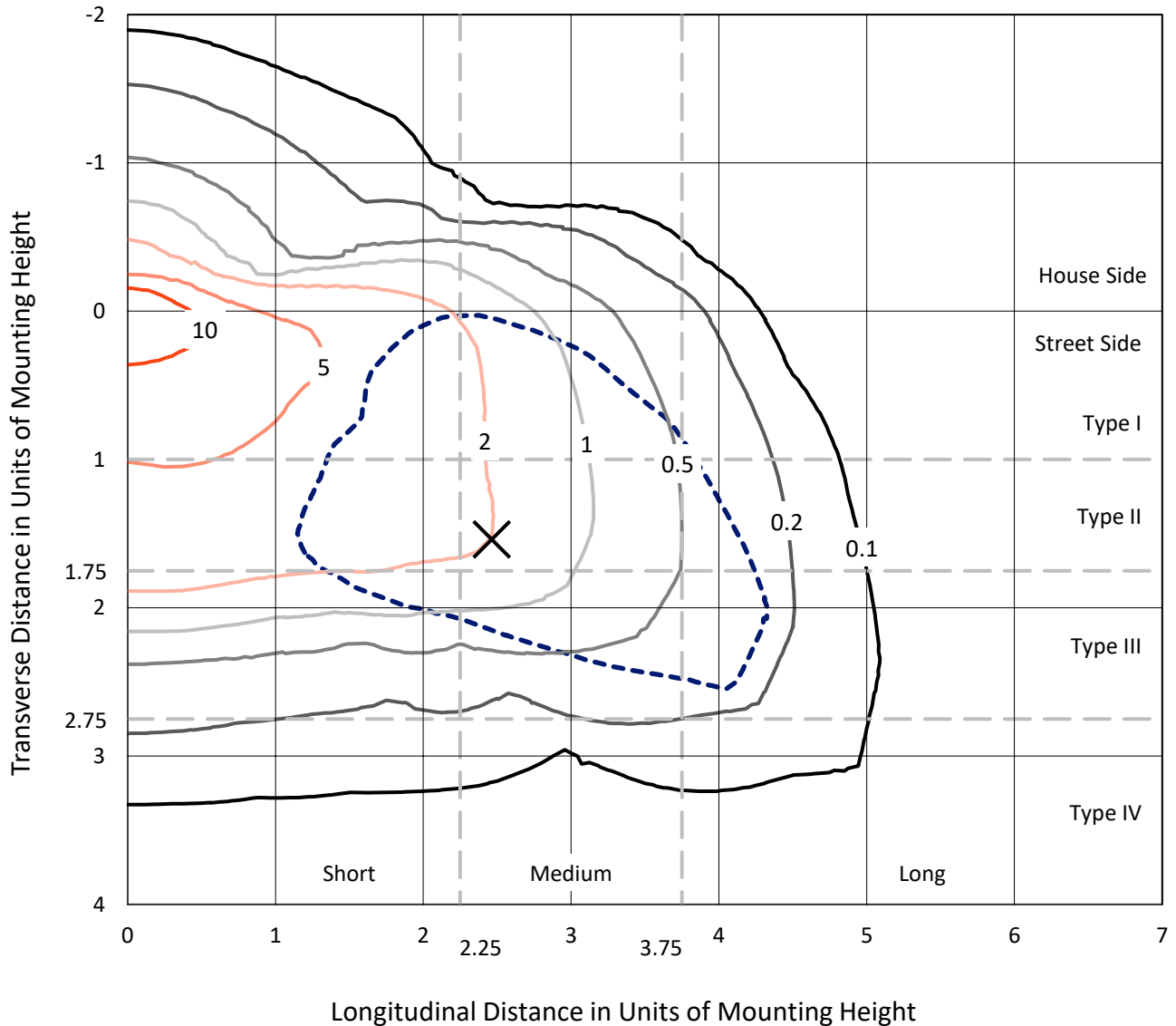
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

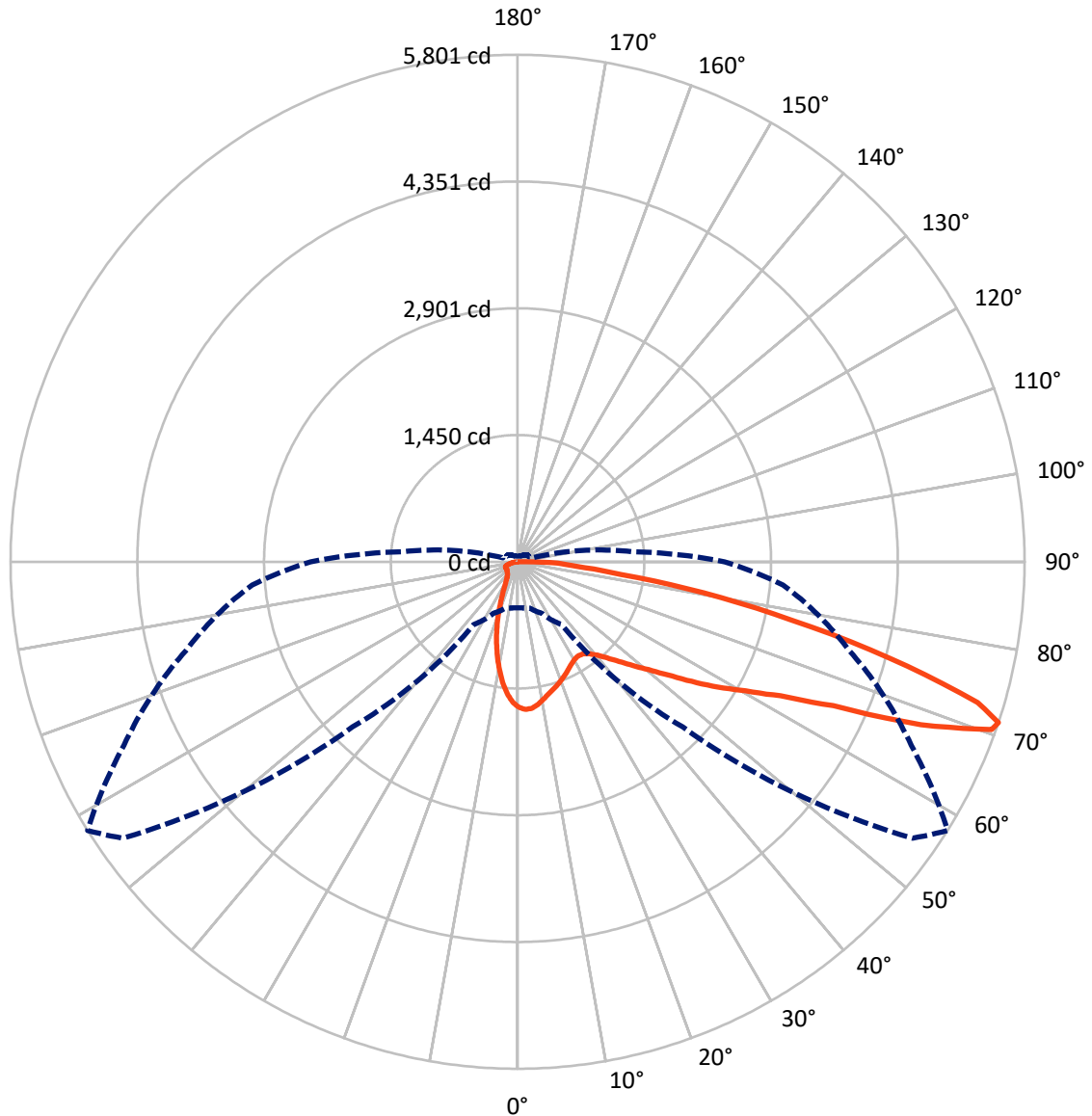
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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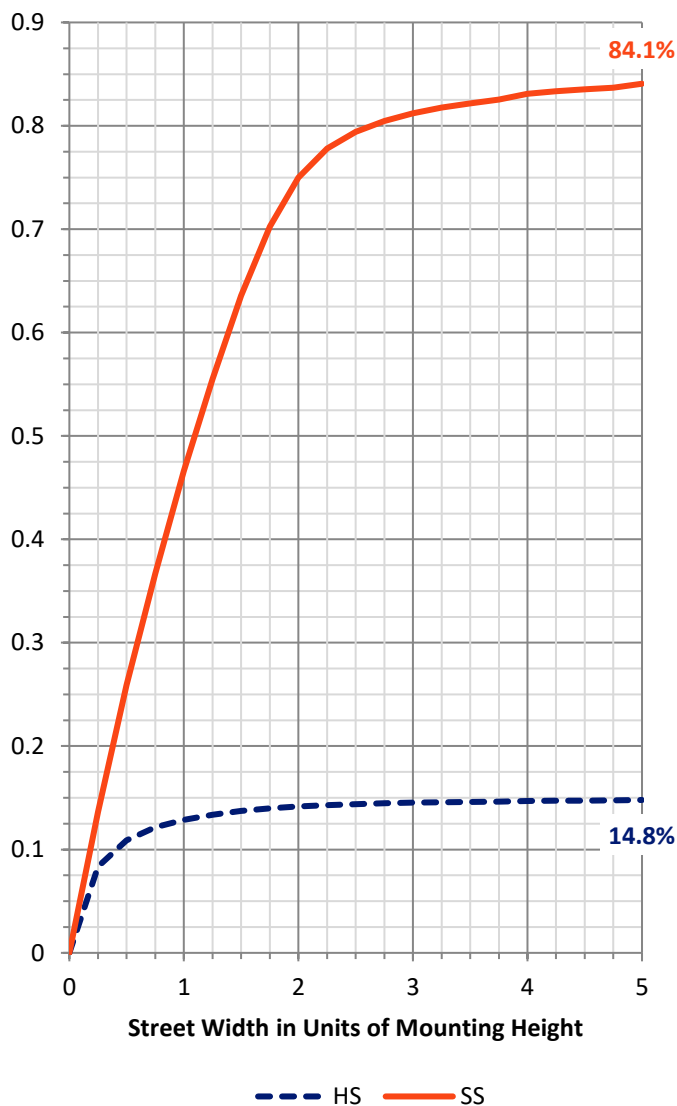
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	897.6	0.0	897.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	5106.4	0.0	5106.4
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	6004.0	0.0	6004.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.5	2.4
10°-20°	319.1	5.3
20°-30°	405.6	6.8
30°-40°	516.6	8.6
40°-50°	732.6	12.2
50°-60°	1133.7	18.9
60°-70°	1543.4	25.7
70°-80°	1029.6	17.1
80°-90°	180.0	3.0
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°	6004.0	100.0
0°-180°	6004.0	100.0

**Coefficient of Utilization**



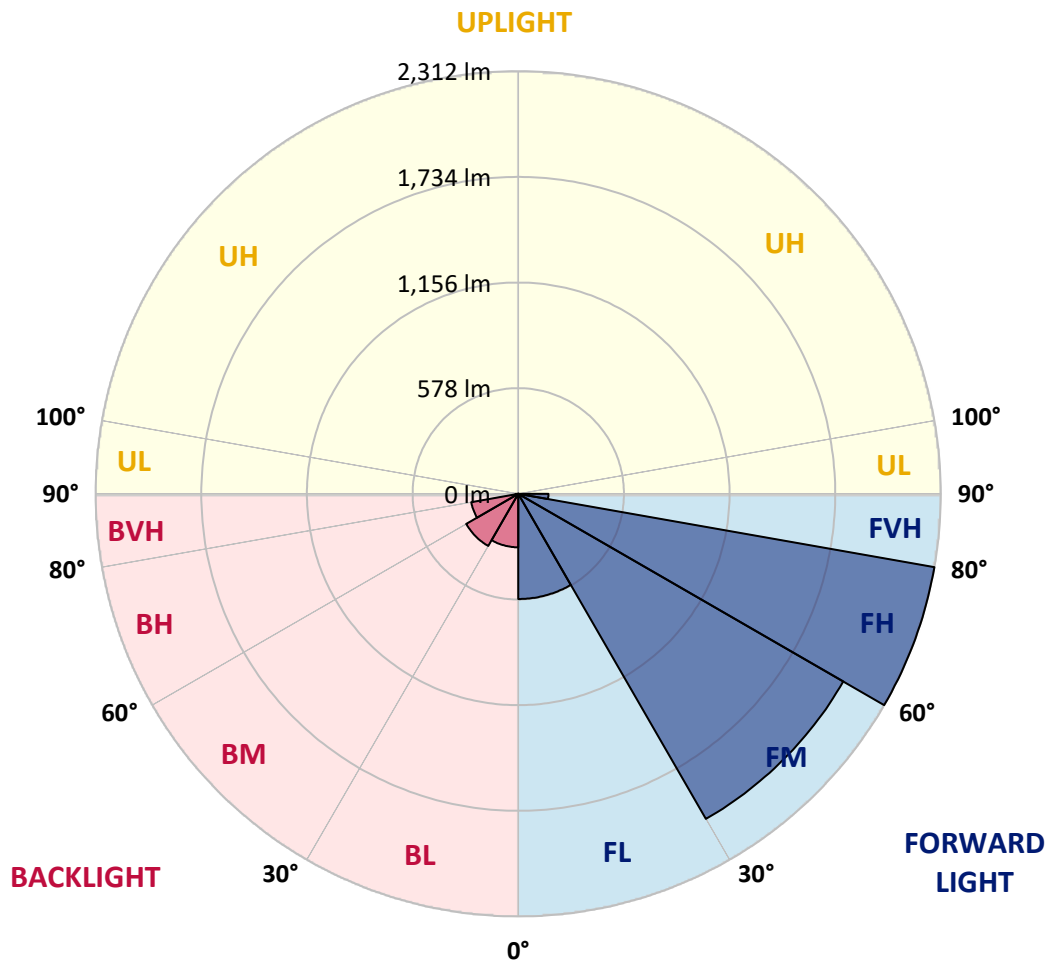
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.6	9.6			
FM (30°-60°)	2053.7	34.2			
FH (60°-80°)	2312.1	38.5			G2/5000
FVH (80°-90°)	165.1	2.7			G2/225
BL (0°-30°)	292.6	4.9	B1/500		
BM (30°-60°)	329.2	5.5	B1/1000		
BH (60°-80°)	260.9	4.3	B1/500		G1/500
BVH (80°-90°)	15.0	0.2			G1/100
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°	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5
2.5°	1707.6	1705.3	1706.2	1704.5	1700.5	1696.6	1690.7	1691.7	1683.6	1671.5	1656.4
5°	1675.4	1674.6	1680.9	1684.4	1687.4	1685.1	1683.4	1685.5	1673.5	1656.8	1630.7
7.5°	1607.9	1598.7	1606.6	1618.5	1629.8	1638.4	1649.7	1651.2	1643.6	1626.1	1591.8
10°	1511.9	1503.1	1514.8	1533.4	1556.0	1576.5	1599.3	1603.5	1604.9	1589.1	1547.4
12.5°	1412.3	1405.6	1417.4	1443.5	1480.9	1512.5	1548.9	1555.2	1568.1	1557.5	1506.4
15°	1323.2	1320.7	1334.9	1360.7	1403.8	1452.1	1504.6	1516.1	1538.0	1534.5	1474.4
17.5°	1246.3	1245.6	1256.5	1283.5	1331.2	1392.3	1460.4	1479.9	1512.5	1516.7	1448.1
20°	1189.0	1187.7	1195.2	1215.1	1264.3	1333.5	1412.7	1439.5	1486.6	1501.2	1420.9
22.5°	1158.2	1158.0	1158.2	1167.6	1207.8	1272.2	1366.3	1398.9	1461.3	1488.9	1390.8
25°	1153.0	1152.4	1147.8	1146.7	1169.5	1221.0	1320.3	1356.3	1437.2	1480.3	1362.1
27.5°	1166.6	1167.4	1161.4	1151.5	1156.1	1187.3	1280.4	1318.8	1418.0	1478.6	1342.3
30°	1194.8	1194.4	1189.2	1178.9	1169.9	1174.7	1251.9	1290.4	1405.0	1485.9	1328.7
32.5°	1226.0	1228.3	1227.2	1221.6	1208.2	1189.0	1243.3	1281.0	1401.2	1503.5	1322.8
35°	1263.4	1265.9	1273.5	1277.9	1262.2	1231.2	1261.7	1294.4	1412.1	1536.6	1332.2
37.5°	1299.0	1305.5	1326.6	1345.2	1331.8	1297.3	1310.7	1333.9	1445.8	1588.6	1357.5
40°	1340.0	1345.6	1380.1	1419.7	1417.6	1381.8	1389.5	1405.0	1505.2	1663.3	1403.3
42.5°	1380.3	1391.6	1441.6	1497.7	1513.8	1482.2	1494.5	1502.7	1588.8	1762.2	1483.2
45°	1434.1	1446.2	1515.6	1583.2	1620.8	1603.1	1622.7	1625.9	1694.0	1896.9	1599.3
47.5°	1515.4	1529.2	1610.2	1681.1	1738.6	1740.5	1772.9	1771.6	1825.4	2051.0	1745.5
50°	1642.2	1662.0	1728.3	1794.6	1864.5	1903.4	1946.7	1940.6	1982.9	2215.2	1913.9
52.5°	1808.2	1817.4	1866.6	1915.5	2002.3	2089.5	2151.6	2146.2	2161.5	2384.0	2105.0
55°	1980.4	1987.3	2007.5	2034.3	2151.0	2293.2	2424.6	2416.0	2377.3	2559.3	2293.9
57.5°	2135.1	2149.1	2163.1	2174.2	2300.8	2506.1	2703.8	2704.4	2611.5	2748.3	2489.0
60°	2159.2	2171.5	2264.2	2351.6	2557.0	2790.2	3002.6	2996.4	2853.9	2953.5	2706.5
62.5°	1908.6	1936.4	2091.2	2323.8	2803.7	3309.7	3383.9	3376.2	3143.8	3206.3	2959.8
65°	1367.8	1399.4	1586.1	1935.6	2684.1	3882.1	4072.0	3967.8	3539.1	3517.3	3256.3
67.5°	789.1	796.6	877.6	1158.2	2043.7	3912.0	5121.7	4975.9	4152.9	3870.2	3401.5
70°	583.5	583.3	602.5	712.8	1105.9	3192.8	5620.9	5751.6	4799.2	3986.2	3196.3
71°	527.7	528.3	549.8	648.8	875.9	2672.4	5514.8	5801.0	4969.4	3928.9	3047.8
72.5°	451.3	453.4	483.3	581.8	736.8	1843.0	5058.1	5504.8	5050.1	3787.5	2815.5
75°	342.4	347.2	388.6	490.4	673.4	934.7	3712.3	4395.7	4486.3	3342.1	2092.0
77.5°	244.3	249.7	296.6	412.4	640.2	704.4	2486.1	3206.3	3301.5	2141.8	943.6
80°	154.3	160.8	196.2	328.1	601.5	668.8	1562.3	2155.2	1800.3	685.4	240.1
82.5°	90.6	95.6	121.7	214.4	491.3	644.2	919.2	1194.6	700.6	207.0	109.2
85°	52.5	54.8	75.9	136.6	356.8	608.0	675.3	667.8	304.1	101.2	51.7
87.5°	24.5	27.2	45.0	71.3	198.1	440.7	533.7	461.2	189.1	47.5	24.3
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°	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5	1663.5
2.5°	1649.1	1645.5	1630.7	1617.5	1603.7	1585.7	1565.8	1563.3	1551.2	1553.5	1549.3
5°	1616.5	1607.5	1571.7	1539.3	1501.0	1466.7	1429.5	1412.3	1387.7	1386.0	1379.7
7.5°	1569.8	1553.1	1497.7	1436.2	1374.7	1316.1	1258.2	1220.1	1181.2	1164.7	1163.2
10°	1517.3	1488.9	1407.3	1316.3	1227.7	1142.1	1059.3	998.0	942.8	916.7	915.6
12.5°	1467.5	1425.5	1313.6	1189.8	1068.5	957.7	844.1	763.6	694.3	671.1	661.3
15°	1425.3	1366.1	1222.4	1064.1	916.9	762.9	633.7	549.0	485.0	462.8	458.6
17.5°	1384.3	1308.2	1128.9	937.2	759.2	590.0	460.5	397.6	363.5	354.5	354.3
20°	1343.5	1248.6	1031.3	807.3	606.7	441.3	354.1	325.8	314.3	313.3	311.6
22.5°	1297.3	1185.4	928.6	677.0	473.5	347.0	301.0	289.7	288.2	292.0	292.0
25°	1254.0	1122.7	824.4	549.4	368.3	289.5	268.7	266.4	270.4	277.1	277.7
27.5°	1213.6	1062.2	722.8	436.1	295.1	254.9	246.4	249.1	256.2	263.9	264.1
30°	1180.4	1005.1	624.1	343.6	249.3	229.2	227.8	233.2	240.9	247.0	248.5
32.5°	1154.7	956.4	528.7	276.3	219.4	210.0	211.2	215.8	220.6	224.0	226.3
35°	1142.7	914.6	440.7	233.0	200.4	195.1	196.8	199.3	201.4	203.9	205.8
37.5°	1144.8	882.2	362.0	206.0	187.6	184.9	184.9	184.9	184.9	186.1	186.3
40°	1164.3	863.5	298.0	188.9	179.0	176.1	173.8	171.7	170.0	170.9	170.5
42.5°	1214.1	861.9	251.2	178.0	172.1	167.3	162.7	159.8	157.7	158.5	158.9
45°	1298.6	882.8	219.6	170.2	165.6	158.3	152.5	149.3	147.9	150.6	151.0
47.5°	1407.9	928.4	200.4	164.6	159.6	150.0	143.7	140.8	141.2	145.1	146.2
50°	1548.9	1002.4	191.2	161.0	155.4	142.8	136.4	133.9	135.1	140.8	142.0
52.5°	1703.7	1109.1	192.2	160.0	152.7	137.6	130.7	127.8	129.9	135.1	136.2
55°	1882.3	1237.3	209.6	161.5	148.7	134.3	126.1	121.1	122.8	127.6	128.4
57.5°	2080.7	1384.1	244.5	161.0	143.7	131.1	121.3	113.8	115.0	118.0	118.8
60°	2287.4	1561.4	298.7	162.3	141.4	127.4	114.8	105.4	105.0	107.5	107.9
62.5°	2535.4	1766.6	360.6	163.1	142.8	122.6	106.2	97.0	95.8	96.4	96.8
65°	2791.0	1915.1	337.3	159.8	147.4	118.6	98.7	88.9	86.6	86.2	86.4
67.5°	2798.9	1755.9	236.5	153.1	149.3	116.5	93.1	82.0	78.2	76.8	76.5
70°	2510.1	1426.6	184.3	146.0	141.8	113.1	87.8	76.3	70.7	68.4	68.2
71°	2369.2	1313.2	174.6	142.4	136.2	109.8	85.5	73.8	68.0	65.5	65.0
72.5°	2148.1	1177.3	162.9	136.8	125.3	101.2	81.1	70.3	64.2	61.3	60.7
75°	1541.6	769.8	139.9	121.9	103.7	80.7	71.1	63.2	57.9	54.4	54.0
77.5°	594.0	306.4	105.8	101.4	79.5	63.2	58.6	54.6	50.8	47.3	47.1
80°	183.6	137.0	77.2	76.3	57.5	47.1	45.6	44.5	43.1	39.3	38.5
82.5°	98.1	78.6	53.1	49.4	37.6	31.4	33.0	33.5	33.7	29.7	29.3
85°	46.8	41.6	29.9	28.0	22.0	17.6	20.3	22.0	22.2	18.2	16.9
87.5°	22.4	21.8	14.0	10.7	8.2	5.9	7.1	8.8	9.6	6.9	6.1
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)