

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: P386274

Luminaire Tested: GAW-SA1D-830-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386274
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-830-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 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: 5626 lumens
Efficiency: N/A
Efficacy: 85.2 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

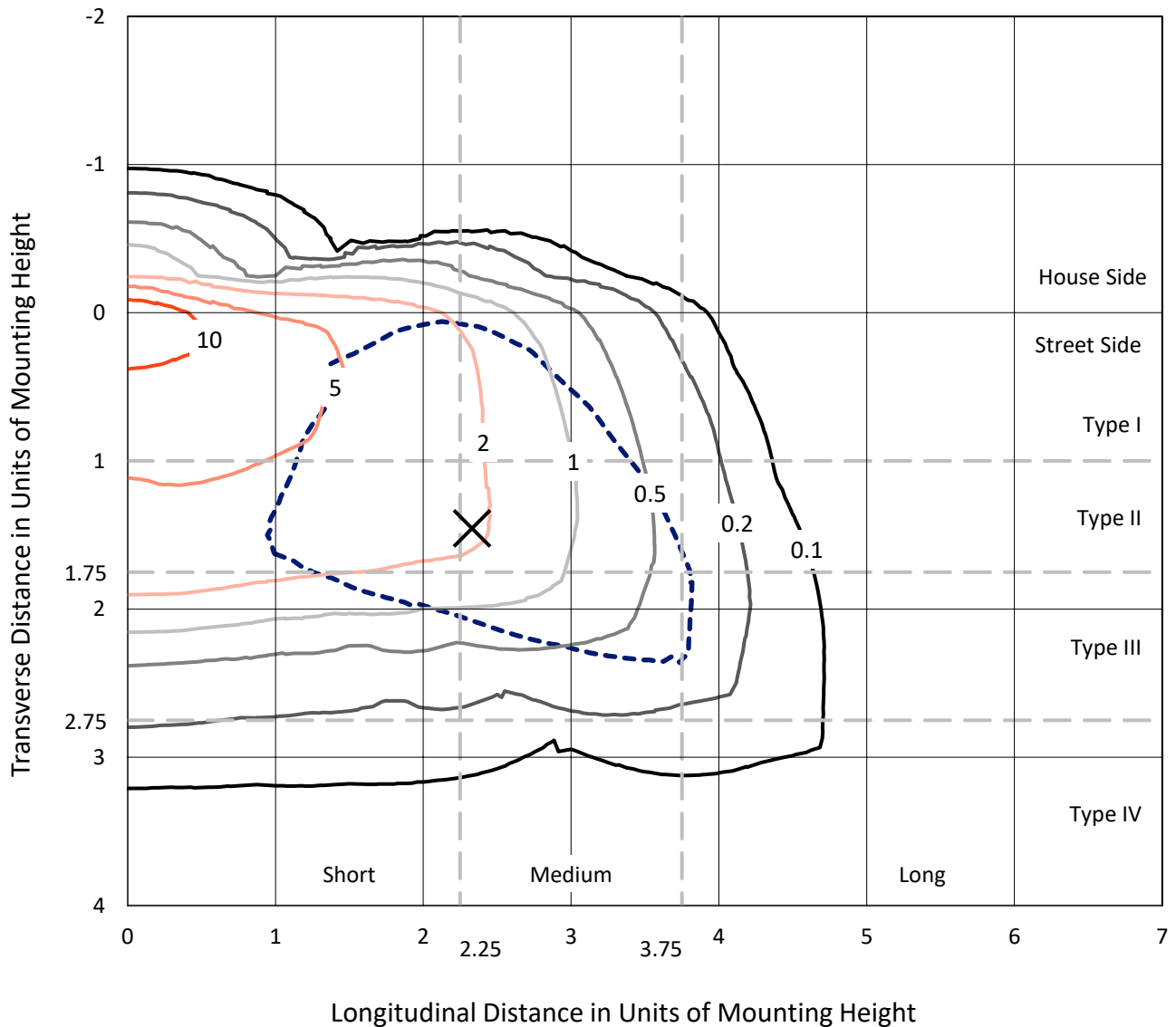
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

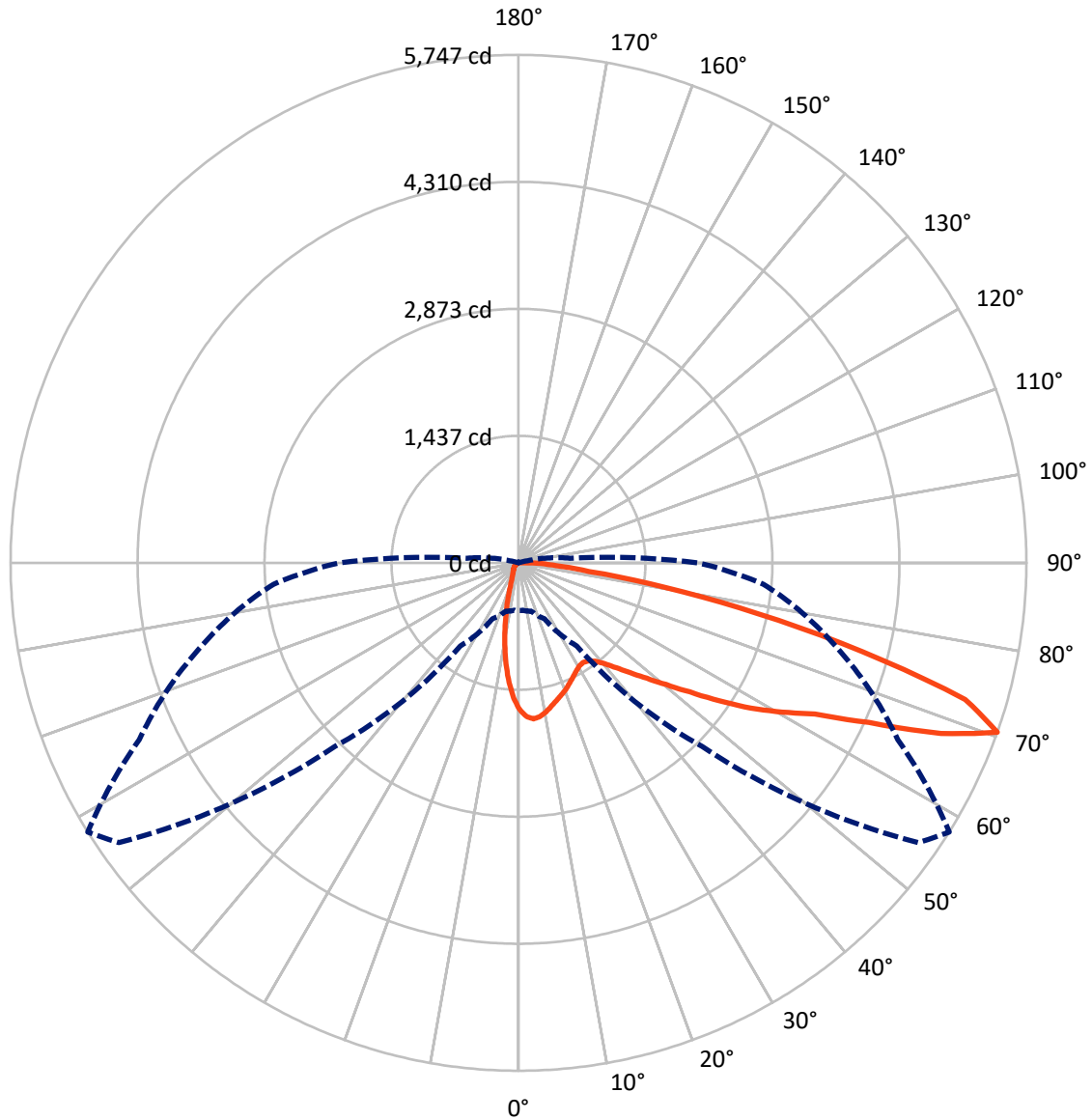
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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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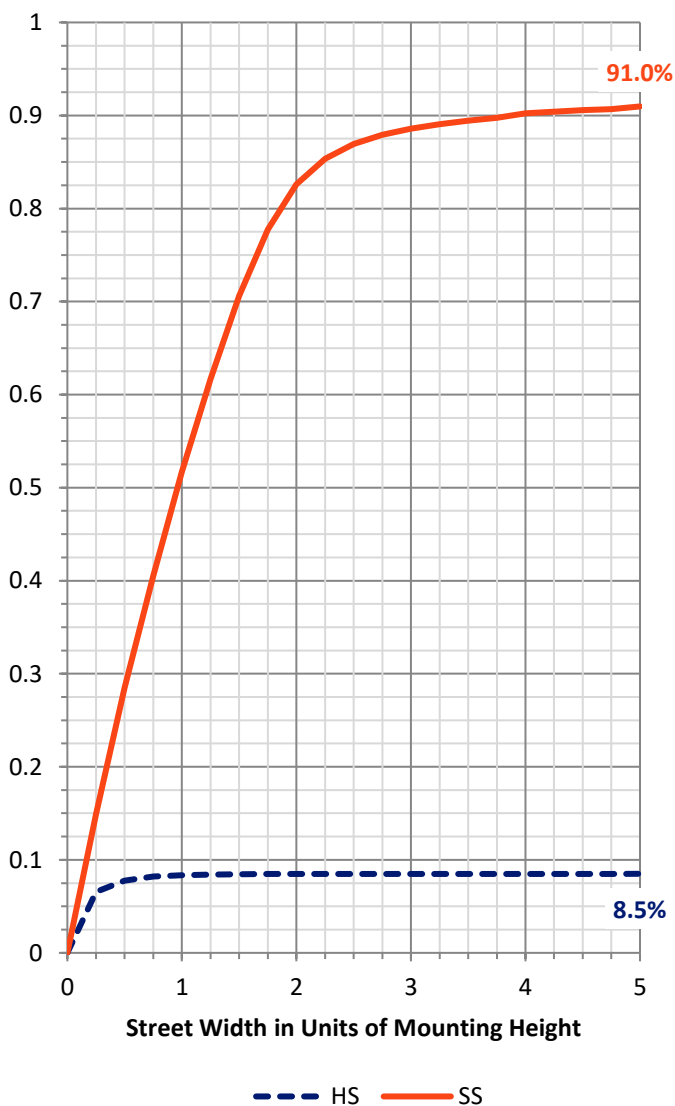
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	481.5	0.0	481.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	5144.5	0.0	5144.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	5626.0	0.0	5626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	2.4
10°-20°	285.2	5.1
20°-30°	375.0	6.7
30°-40°	496.6	8.8
40°-50°	742.3	13.2
50°-60°	1189.1	21.1
60°-70°	1498.8	26.6
70°-80°	808.5	14.4
80°-90°	94.6	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°	5626.0	100.0
0°-180°	5626.0	100.0

Coefficient of Utilization

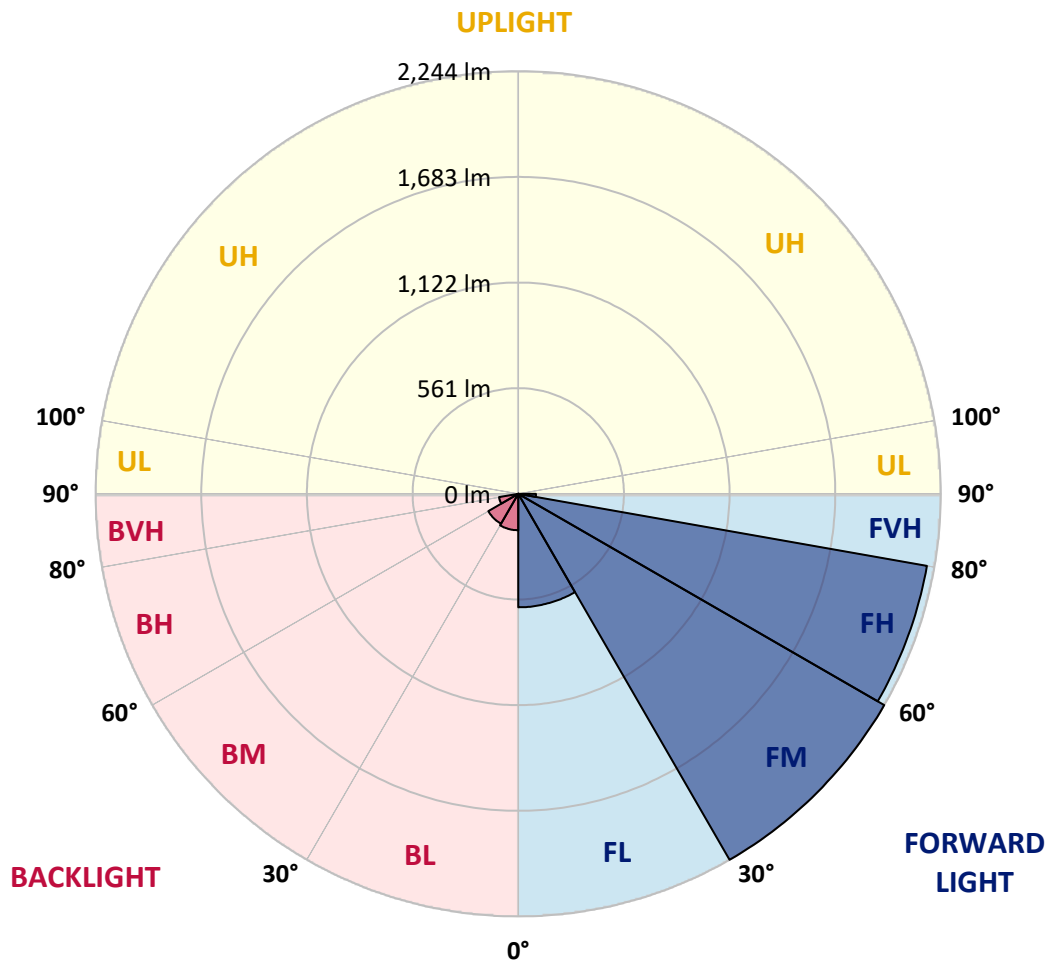


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	602.7	10.7			
FM (30°-60°)	2244.3	39.9			
FH (60°-80°)	2203.8	39.2			G2/5000
FVH (80°-90°)	93.8	1.7			G1/100
BL (0°-30°)	193.4	3.4	B1/500		
BM (30°-60°)	183.7	3.3	B0/220		
BH (60°-80°)	103.5	1.8	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9
2.5°	1799.7	1795.2	1793.6	1790.8	1780.0	1769.5	1748.7	1742.8	1729.7	1698.6	1665.6
5°	1801.1	1800.9	1805.8	1804.6	1800.9	1795.9	1781.0	1773.2	1751.0	1706.6	1646.2
7.5°	1714.3	1718.7	1729.7	1738.6	1748.9	1762.3	1764.1	1756.6	1738.4	1690.4	1610.4
10°	1597.8	1604.8	1620.3	1637.8	1664.7	1691.4	1715.2	1714.3	1708.0	1660.7	1567.4
12.5°	1481.1	1489.2	1507.0	1533.0	1571.1	1614.6	1657.2	1663.1	1673.6	1634.1	1527.6
15°	1378.8	1385.8	1403.4	1435.2	1482.5	1540.9	1603.4	1614.2	1641.3	1613.2	1494.4
17.5°	1292.0	1296.5	1309.3	1344.7	1399.4	1470.3	1551.5	1572.5	1613.0	1596.9	1465.6
20°	1231.4	1232.2	1240.6	1265.4	1320.1	1399.4	1497.7	1527.8	1583.1	1582.8	1435.9
22.5°	1201.5	1199.2	1200.8	1215.1	1255.3	1331.8	1443.9	1479.7	1556.2	1570.9	1405.7
25°	1195.9	1194.0	1189.3	1191.2	1215.5	1272.6	1389.6	1431.0	1532.5	1563.6	1379.5
27.5°	1213.4	1215.3	1207.4	1198.9	1200.8	1234.3	1341.4	1389.4	1513.3	1563.6	1361.0
30°	1248.8	1249.7	1243.8	1232.9	1218.1	1223.5	1307.9	1355.9	1503.8	1574.4	1349.4
32.5°	1287.8	1293.0	1292.3	1283.4	1262.3	1240.6	1300.0	1343.7	1503.1	1598.3	1348.2
35°	1336.3	1342.1	1351.9	1350.1	1328.1	1292.3	1327.1	1361.5	1516.9	1637.6	1360.8
37.5°	1387.7	1396.6	1417.7	1427.7	1413.5	1373.0	1388.0	1412.5	1553.8	1701.2	1392.9
40°	1437.5	1447.6	1486.0	1525.5	1514.7	1473.1	1480.1	1499.8	1619.6	1792.7	1453.7
42.5°	1486.4	1501.4	1557.8	1622.8	1635.7	1602.5	1606.2	1621.9	1717.1	1918.5	1553.1
45°	1544.9	1561.8	1645.3	1725.5	1759.9	1745.4	1761.3	1771.6	1844.6	2084.9	1687.2
47.5°	1630.8	1650.2	1752.7	1844.1	1904.5	1913.8	1945.9	1952.7	2005.8	2278.6	1861.9
50°	1798.3	1803.7	1896.3	1979.3	2066.4	2122.5	2159.0	2164.2	2200.9	2490.3	2080.2
52.5°	2009.1	2012.6	2065.0	2120.6	2219.6	2334.2	2419.6	2426.9	2434.6	2696.6	2295.6
55°	2218.4	2218.0	2252.6	2285.3	2398.6	2565.1	2750.4	2754.9	2699.4	2892.4	2460.3
57.5°	2349.2	2361.8	2414.5	2456.6	2614.7	2828.3	3085.4	3101.8	2977.6	3037.4	2623.1
60°	2307.6	2313.6	2430.4	2586.2	2884.0	3202.4	3424.4	3428.6	3186.7	3182.3	2829.0
62.5°	1966.0	1969.3	2152.7	2473.9	3020.4	3687.6	3833.3	3764.8	3427.2	3383.2	3075.3
65°	1347.5	1368.8	1522.0	1919.0	2769.8	3991.9	4466.3	4352.9	3793.8	3672.8	3298.1
67.5°	793.5	789.1	864.9	1157.3	2034.3	3789.8	5267.1	5154.4	4293.7	3866.8	3232.8
70°	542.0	539.0	568.0	700.6	1148.4	2939.9	5519.1	5746.7	4735.1	3736.2	2782.2
72.5°	386.9	388.6	431.4	544.4	721.0	1712.9	4746.1	5284.9	4596.9	3257.1	2114.8
75°	262.7	267.2	328.4	446.6	632.1	871.4	3368.0	4017.4	3743.2	2367.2	1215.5
77.5°	141.3	146.2	218.5	359.8	571.5	605.4	2166.5	2764.9	2351.3	1064.2	352.3
80°	59.0	61.8	102.2	261.5	493.8	531.7	1274.7	1676.6	1002.0	209.8	78.6
82.5°	25.5	26.9	42.6	156.0	369.2	448.9	674.9	806.6	303.7	46.1	39.5
85°	4.9	5.1	17.5	82.6	235.6	253.4	437.5	428.8	136.4	19.9	28.8
87.5°	0.0	0.0	4.2	26.0	69.2	138.0	266.9	263.6	46.3	9.6	10.8
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°	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9	1661.9
2.5°	1648.8	1632.7	1598.7	1556.9	1524.8	1489.5	1461.4	1425.9	1410.4	1411.1	1402.7
5°	1611.8	1578.6	1503.5	1408.8	1335.8	1260.5	1195.7	1131.1	1093.0	1080.6	1068.9
7.5°	1559.0	1506.3	1386.5	1240.6	1117.1	996.3	891.3	798.9	740.4	711.9	701.3
10°	1499.3	1425.4	1252.0	1059.7	883.3	720.1	583.9	465.5	418.3	386.2	378.0
12.5°	1446.9	1346.8	1120.6	874.2	664.9	467.9	338.0	264.3	232.3	219.7	217.6
15°	1397.5	1273.3	994.0	706.3	460.4	288.0	215.0	190.0	182.5	180.4	180.4
17.5°	1351.0	1203.4	870.2	540.9	304.6	201.9	178.0	172.4	170.1	169.8	170.1
20°	1302.3	1133.4	748.6	396.3	212.6	171.0	164.5	161.4	160.7	160.7	160.7
22.5°	1255.8	1063.5	630.2	283.1	170.5	156.0	152.8	150.7	150.0	149.7	149.3
25°	1211.1	997.0	514.7	200.0	149.7	142.9	140.1	137.3	135.2	134.0	133.3
27.5°	1174.4	937.9	407.1	160.5	135.2	129.4	125.9	121.6	116.5	114.2	113.2
30°	1145.1	883.8	313.7	135.4	121.6	115.8	110.4	103.2	95.7	91.7	91.5
32.5°	1122.2	830.7	238.1	119.8	109.5	102.2	94.5	85.4	76.7	72.3	72.1
35°	1111.0	783.9	182.0	108.3	98.7	89.6	80.0	69.9	61.5	57.3	56.8
37.5°	1118.5	744.4	142.0	98.7	89.6	79.1	67.8	57.3	49.8	46.1	45.9
40°	1145.8	719.1	115.3	90.5	81.9	69.0	56.8	47.0	40.7	37.7	37.4
42.5°	1204.1	709.8	98.5	83.7	74.4	59.7	47.3	38.8	33.0	30.9	30.4
45°	1301.4	723.6	87.0	77.2	66.7	50.8	39.1	31.8	26.7	25.0	24.8
47.5°	1431.0	759.8	78.8	70.9	59.7	42.8	32.5	25.7	21.8	20.1	19.9
50°	1598.0	817.4	72.1	64.6	53.1	36.3	26.9	20.4	16.8	15.7	15.7
52.5°	1779.8	885.9	66.0	58.7	46.6	30.2	21.8	15.7	13.3	11.9	11.9
55°	1930.0	945.8	59.4	54.3	38.6	25.0	16.6	11.9	9.8	9.1	9.1
57.5°	2079.9	1009.7	51.9	46.6	30.9	20.4	12.6	8.9	7.3	6.8	6.8
60°	2274.3	1087.8	44.7	37.9	24.3	15.4	9.4	6.3	5.4	5.1	5.1
62.5°	2488.2	1133.7	38.1	30.4	18.9	11.5	6.8	4.2	4.0	4.0	3.7
65°	2618.9	1068.9	32.0	24.3	14.7	8.7	4.4	3.0	3.5	3.3	2.8
67.5°	2452.1	836.8	26.2	18.9	11.5	6.6	2.8	2.1	3.7	3.0	2.3
70°	2030.3	585.8	20.4	13.3	9.1	5.6	1.9	1.4	4.0	3.0	1.9
72.5°	1519.4	392.1	16.1	8.9	6.8	4.9	1.6	0.7	3.5	2.6	1.6
75°	830.2	157.9	12.9	5.6	4.2	3.5	1.2	0.5	2.3	1.9	1.2
77.5°	218.5	41.6	9.4	3.7	2.3	1.4	0.7	0.2	1.2	0.9	0.5
80°	55.7	16.1	6.1	2.6	1.6	0.7	0.0	0.0	0.2	0.0	0.0
82.5°	29.7	6.8	3.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.5	4.4	2.1	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	1.4	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)