

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P509284

Luminaire Tested: **VERD-CA2-60-760-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509284  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-760-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 850mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8364 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

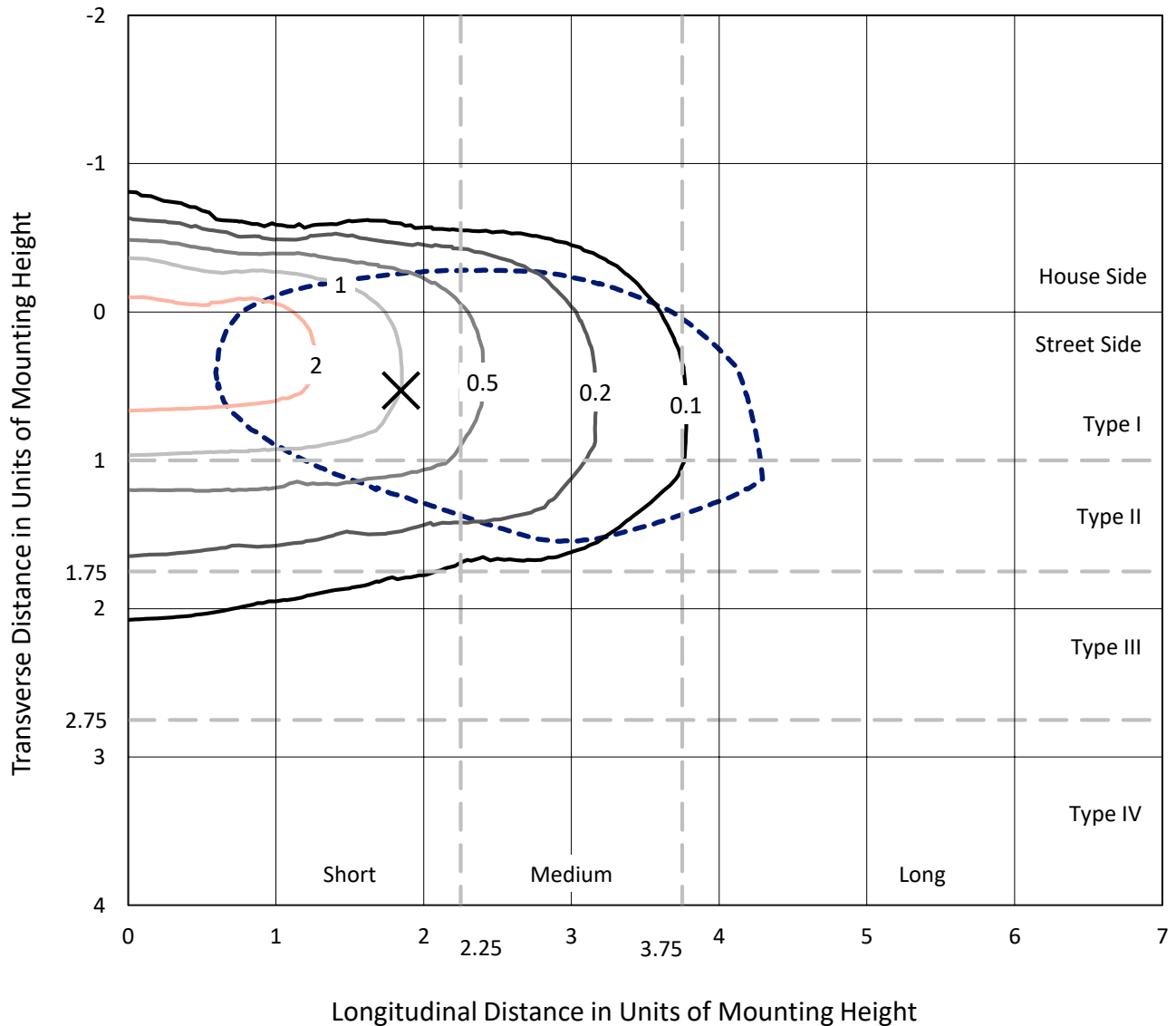
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

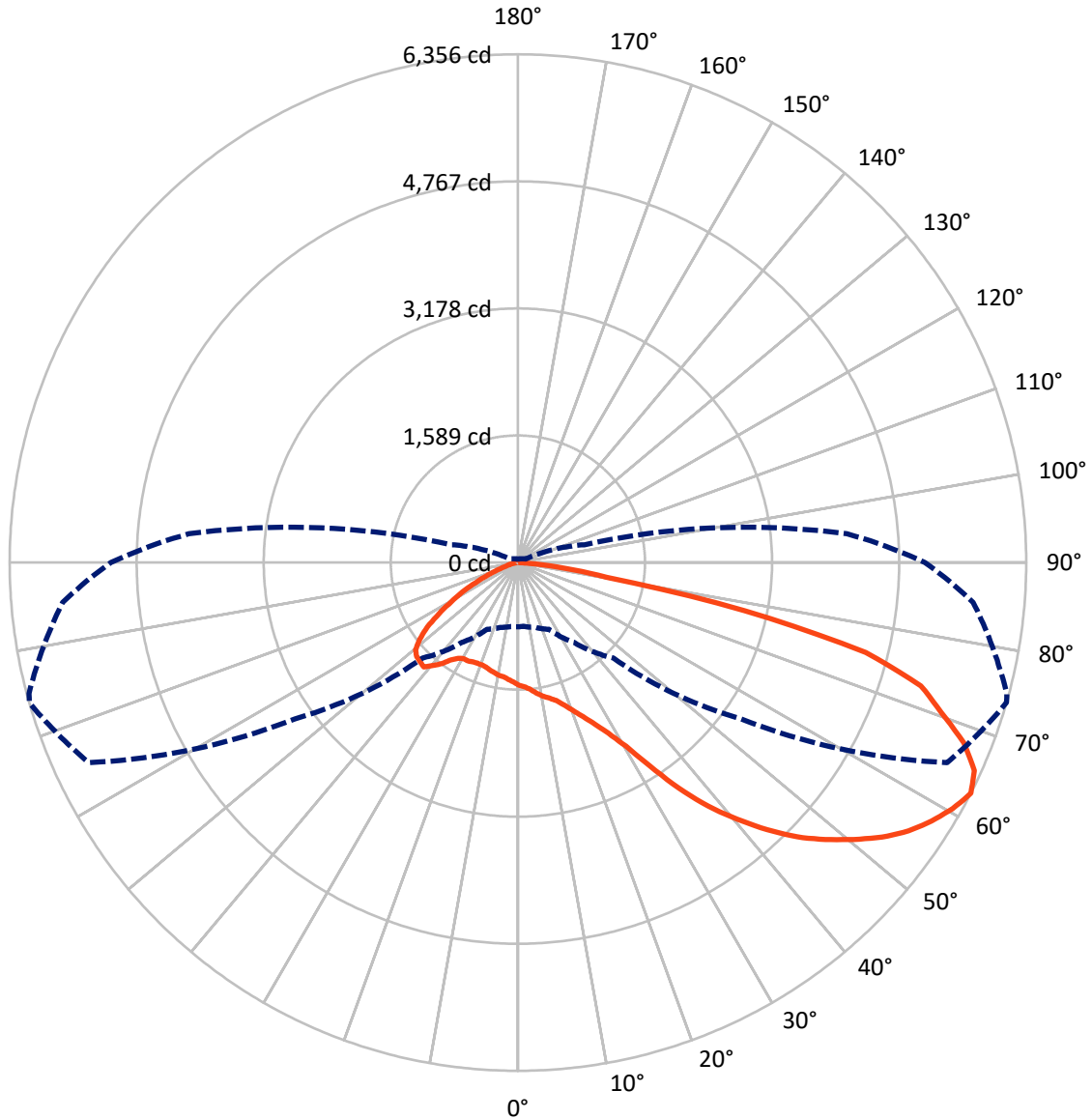
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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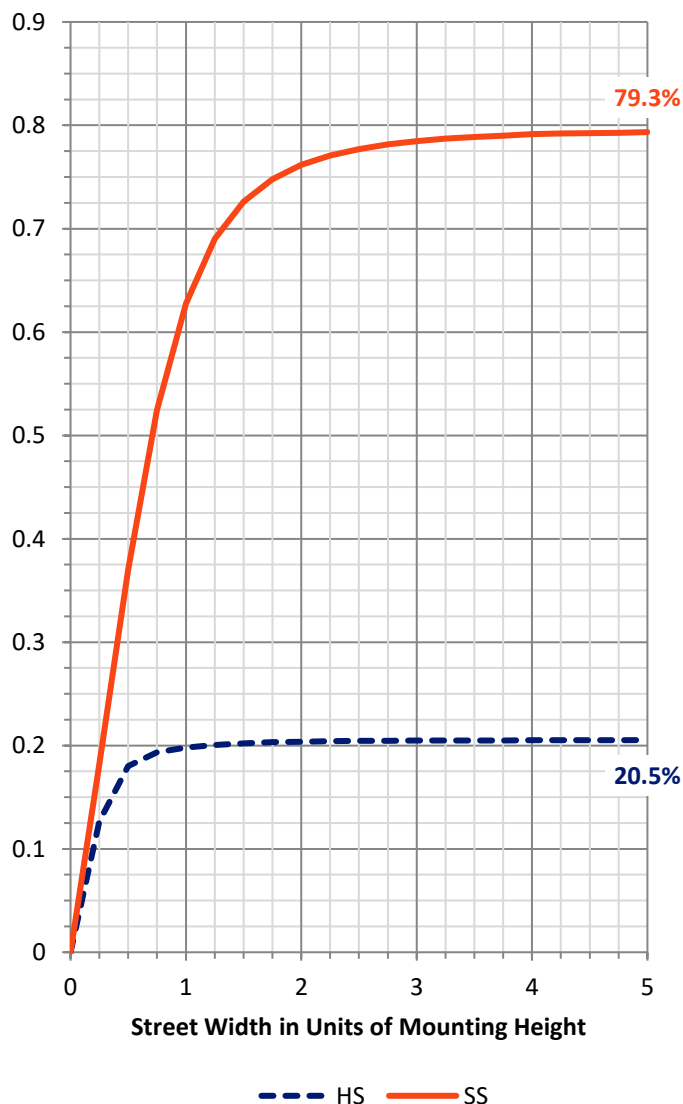
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1736.8	0.0	1736.8
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	6627.2	0.0	6627.2
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8364.0	0.0	8364.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	1.7
10°-20°	441.4	5.3
20°-30°	745.3	8.9
30°-40°	1108.5	13.3
40°-50°	1500.4	17.9
50°-60°	1726.1	20.6
60°-70°	1666.2	19.9
70°-80°	943.4	11.3
80°-90°	86.5	1.0
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°	8364.0	100.0
0°-180°	8364.0	100.0

**Coefficient of Utilization**



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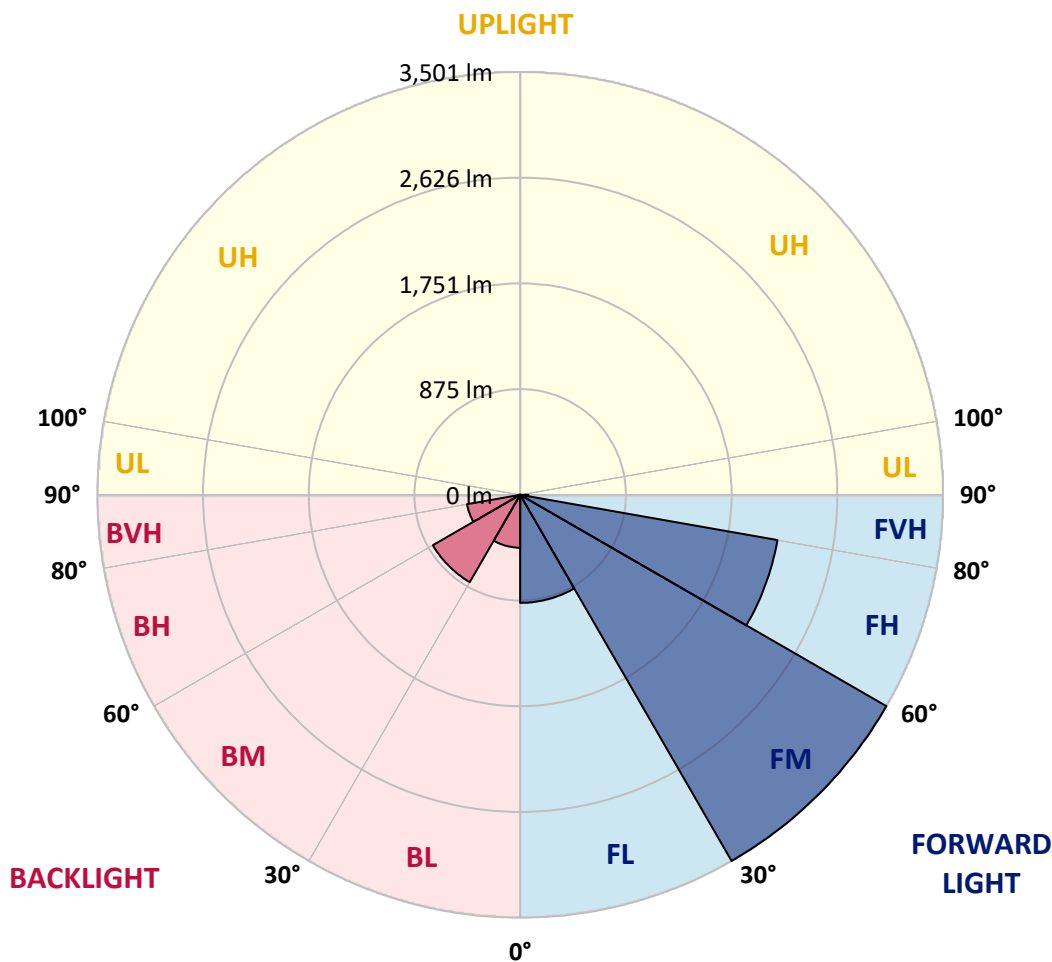
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.9	10.7			
FM (30°-60°)	3501.0	41.9			
FH (60°-80°)	2163.0	25.9			G2/5000
FVH (80°-90°)	68.2	0.8			G1/100
BL (0°-30°)	437.9	5.2	B1/500		
BM (30°-60°)	834.1	10.0	B1/1000		
BH (60°-80°)	446.5	5.3	B1/500		G1/500
BVH (80°-90°)	18.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1
2.5°	1671.6	1660.7	1651.7	1646.7	1632.8	1620.8	1596.9	1572.0	1555.0	1554.0	1538.1
5°	1741.4	1740.4	1720.5	1716.5	1697.6	1691.6	1667.6	1631.8	1589.9	1584.9	1542.1
7.5°	1833.1	1822.2	1800.2	1791.3	1769.3	1753.4	1721.5	1687.6	1645.7	1640.7	1566.0
10°	1921.8	1915.9	1902.9	1903.9	1873.0	1843.1	1795.2	1737.4	1697.6	1691.6	1599.9
12.5°	2024.5	2005.6	1983.6	1971.7	1940.8	1921.8	1876.0	1800.2	1737.4	1731.4	1639.7
15°	2095.3	2085.3	2065.4	2057.4	2027.5	1996.6	1943.8	1885.0	1790.3	1784.3	1680.6
17.5°	2171.0	2166.0	2143.1	2138.1	2109.2	2072.3	2031.5	1954.7	1872.0	1862.0	1729.4
20°	2221.9	2212.9	2209.9	2208.9	2200.9	2178.0	2126.2	2066.4	1974.7	1956.7	1792.2
22.5°	2289.7	2280.7	2284.7	2288.7	2299.6	2289.7	2255.8	2185.0	2094.3	2078.3	1890.9
25°	2296.6	2290.6	2317.6	2373.4	2395.3	2406.3	2380.4	2325.5	2237.8	2216.9	2008.6
27.5°	2315.6	2306.6	2335.5	2394.3	2493.0	2509.9	2514.9	2489.0	2415.2	2403.3	2168.0
30°	2281.7	2275.7	2320.6	2421.2	2531.9	2627.6	2664.4	2700.3	2666.4	2645.5	2390.3
32.5°	2198.9	2202.9	2261.7	2395.3	2599.7	2747.2	2842.9	2969.5	3030.3	3026.3	2784.1
35°	2078.3	2076.3	2175.0	2363.4	2605.6	2859.8	3038.2	3295.4	3465.9	3453.9	3197.7
37.5°	1975.7	1970.7	2082.3	2282.7	2610.6	2949.5	3267.5	3651.3	3867.6	3855.6	3535.7
40°	1850.1	1858.0	1957.7	2189.0	2568.8	3016.3	3466.9	3997.2	4218.5	4218.5	3885.5
42.5°	1723.5	1730.4	1829.1	2058.4	2508.0	3065.2	3654.3	4342.1	4567.3	4572.3	4125.8
45°	1612.8	1615.8	1705.5	1911.9	2398.3	3073.1	3826.7	4688.0	4894.3	4881.3	4399.9
47.5°	1418.4	1451.3	1591.9	1780.3	2248.8	3038.2	3972.3	4996.0	5175.4	5148.5	4661.0
50°	1130.4	1130.4	1324.7	1654.7	2077.3	2945.5	4086.9	5277.1	5442.5	5417.6	4889.3
52.5°	1038.7	1040.7	1100.5	1478.3	1903.9	2786.1	4152.7	5556.2	5704.7	5687.7	5105.6
55°	989.8	992.8	1020.7	1198.2	1746.4	2541.8	4154.7	5772.5	5927.0	5889.1	5288.0
57.5°	916.1	911.1	969.9	1067.6	1562.0	2226.9	4057.0	5939.9	6099.4	6070.5	5437.5
60°	864.2	856.3	896.1	983.8	1363.6	1900.9	3796.8	6061.5	6247.0	6263.9	5584.1
62.5°	803.4	800.4	838.3	921.0	1217.1	1687.6	3406.1	5920.0	6355.6	6328.7	5713.7
65°	742.6	736.6	772.5	837.3	1075.5	1513.1	3012.3	5710.7	6271.9	6295.8	5739.6
67.5°	662.9	661.9	695.8	743.6	921.0	1317.8	2442.2	5435.6	6012.7	5995.8	5504.3
70°	566.2	566.2	600.1	641.9	769.5	1124.4	1875.0	4964.1	5614.0	5712.7	5101.6
72.5°	457.5	459.5	493.4	541.3	635.0	916.1	1382.6	4317.1	5268.1	5109.6	4533.5
75°	244.2	219.3	386.8	435.6	512.4	730.7	946.0	2807.0	4492.6	4382.9	3760.9
77.5°	58.8	61.8	121.6	226.3	273.1	404.7	465.5	1299.8	2896.7	3071.1	2682.4
80°	38.9	42.9	65.8	160.5	182.4	215.3	184.4	566.2	1123.4	1197.2	1557.0
82.5°	19.9	21.9	40.9	63.8	64.8	55.8	69.8	285.1	594.1	643.9	748.6
85°	7.0	11.0	20.9	27.9	25.9	20.9	16.9	70.8	140.5	156.5	162.5
87.5°	0.0	0.0	3.0	3.0	2.0	2.0	3.0	3.0	4.0	3.0	3.0
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°	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1	1533.1
2.5°	1525.1	1514.1	1497.2	1479.3	1460.3	1444.4	1435.4	1440.4	1446.4	1427.4	1420.4
5°	1522.1	1503.2	1471.3	1433.4	1404.5	1375.6	1341.7	1333.7	1325.7	1315.8	1304.8
7.5°	1536.1	1508.2	1443.4	1408.5	1347.7	1293.8	1263.9	1242.0	1222.1	1204.1	1193.2
10°	1562.0	1510.2	1437.4	1366.6	1299.8	1234.0	1169.2	1156.3	1152.3	1126.4	1107.4
12.5°	1578.9	1515.1	1416.5	1330.7	1235.0	1164.3	1099.5	1062.6	1059.6	1047.6	1034.7
15°	1605.8	1535.1	1402.5	1285.9	1169.2	1094.5	1034.7	986.8	962.9	961.9	951.9
17.5°	1654.7	1558.0	1380.6	1240.0	1116.4	1032.7	947.0	929.0	889.1	866.2	860.2
20°	1704.5	1591.9	1374.6	1194.2	1047.6	944.0	878.2	828.3	796.4	772.5	757.6
22.5°	1769.3	1640.7	1376.6	1167.3	991.8	877.2	791.5	717.7	658.9	630.0	616.0
25°	1863.0	1697.6	1391.5	1126.4	926.0	805.4	680.8	583.1	500.4	479.5	469.5
27.5°	1982.6	1777.3	1412.5	1084.5	865.2	708.7	547.2	437.6	368.8	352.9	342.9
30°	2166.0	1896.9	1415.5	1058.6	810.4	583.1	409.7	324.0	270.1	253.2	255.2
32.5°	2510.9	2153.1	1455.3	1004.8	712.7	447.6	301.0	236.2	195.4	189.4	199.4
35°	2911.7	2455.1	1532.1	976.9	601.1	324.0	215.3	173.4	147.5	155.5	159.5
37.5°	3169.8	2721.3	1654.7	913.1	470.5	238.2	150.5	135.6	130.6	135.6	144.5
40°	3470.9	2937.6	1759.4	848.3	333.9	163.5	120.6	123.6	117.6	116.6	120.6
42.5°	3715.1	3159.9	1871.0	741.6	232.3	121.6	110.6	112.6	108.7	103.7	103.7
45°	3947.3	3352.2	1870.0	598.1	153.5	107.7	101.7	105.7	104.7	97.7	96.7
47.5°	4150.7	3546.6	1871.0	434.6	116.6	98.7	94.7	98.7	98.7	92.7	91.7
50°	4402.9	3708.1	1841.1	278.1	106.7	91.7	90.7	89.7	93.7	85.7	83.7
52.5°	4557.4	3825.7	1706.5	187.4	98.7	86.7	84.7	82.7	84.7	77.8	77.8
55°	4726.8	3972.3	1531.1	148.5	93.7	80.7	79.7	77.8	77.8	69.8	70.8
57.5°	4911.2	4091.9	1294.8	130.6	89.7	76.8	74.8	71.8	67.8	61.8	60.8
60°	5044.8	4116.8	1059.6	118.6	86.7	74.8	66.8	62.8	55.8	51.8	50.8
62.5°	5089.7	4129.7	859.2	106.7	81.7	68.8	59.8	52.8	44.9	41.9	41.9
65°	5052.8	3980.2	643.9	96.7	75.8	63.8	52.8	42.9	34.9	31.9	30.9
67.5°	4815.5	3705.1	468.5	86.7	66.8	57.8	45.9	34.9	27.9	24.9	24.9
70°	4383.9	3381.1	317.0	72.8	57.8	50.8	42.9	27.9	22.9	19.9	18.9
72.5°	3913.4	2866.8	202.4	58.8	44.9	39.9	30.9	23.9	18.9	15.0	15.0
75°	3095.1	2251.8	140.5	42.9	31.9	29.9	23.9	19.9	15.9	12.0	12.0
77.5°	2154.1	1463.3	110.6	32.9	21.9	19.9	17.9	15.0	13.0	10.0	9.0
80°	1249.0	880.2	66.8	21.9	15.0	13.0	12.0	12.0	10.0	7.0	7.0
82.5°	620.0	366.8	28.9	14.0	10.0	9.0	8.0	7.0	7.0	5.0	5.0
85°	121.6	62.8	11.0	7.0	5.0	5.0	4.0	4.0	3.0	2.0	2.0
87.5°	4.0	3.0	3.0	3.0	2.0	2.0	1.0	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)