

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: P129294

Luminaire Tested: **VERD-A028-E-U-T2-7030-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P129294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24744)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-A028-E-U-T2-7030-AP  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K LEDS AT 80% STANDARD LUMENS AND TYPE II OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7690 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 72  
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

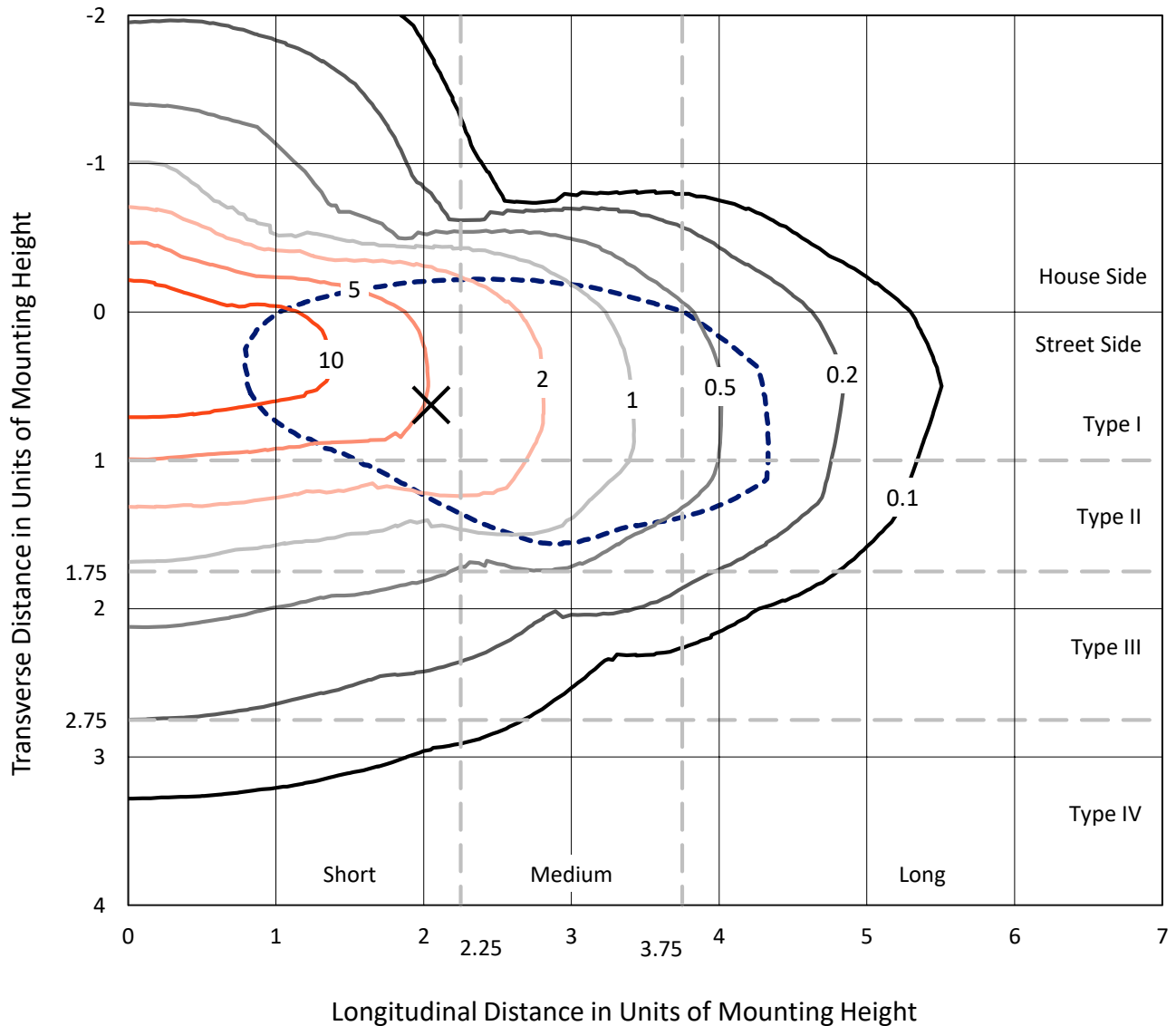


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

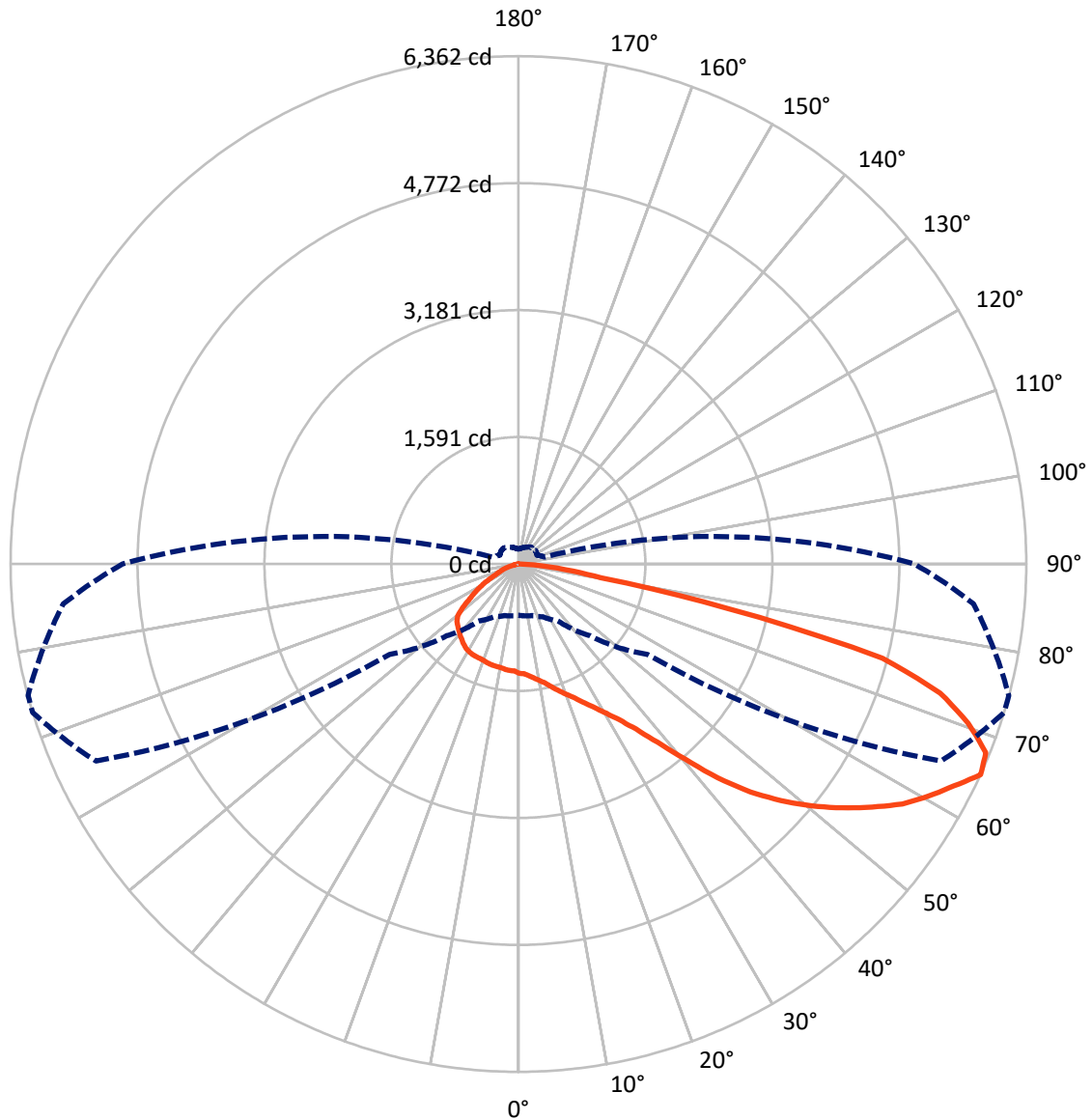


Based on 10 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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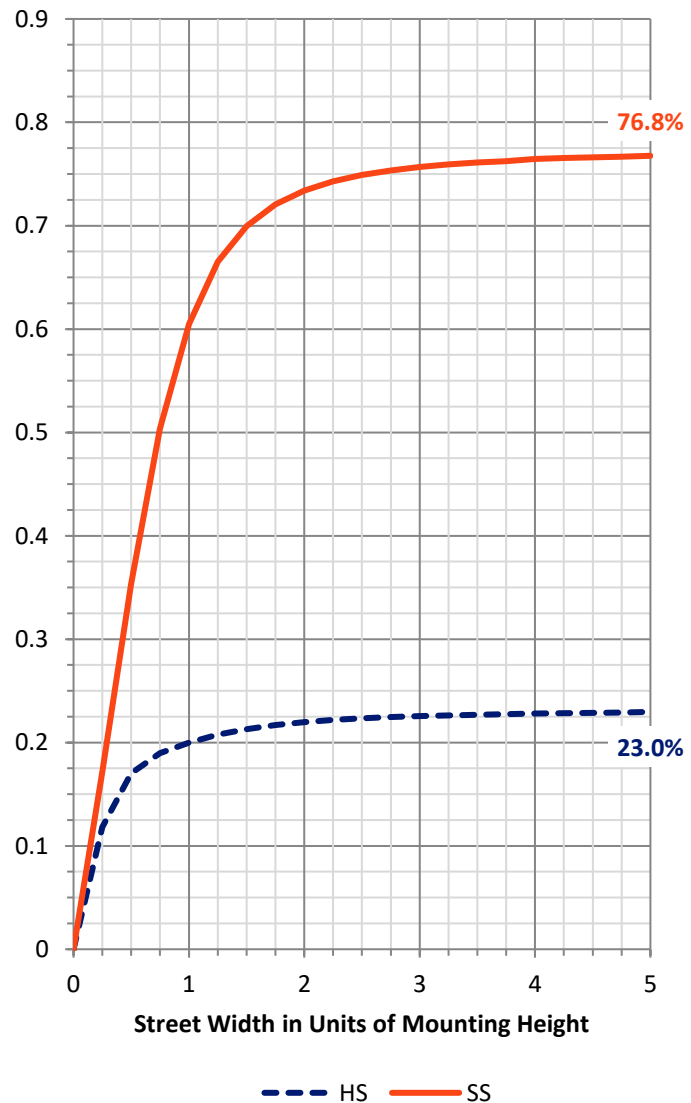
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1791.1	0.0	1791.1
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	5898.9	0.0	5898.9
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	7690.0	0.0	7690.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.6	1.7
10°-20°	411.7	5.4
20°-30°	691.3	9.0
30°-40°	946.9	12.3
40°-50°	1263.4	16.4
50°-60°	1517.5	19.7
60°-70°	1614.9	21.0
70°-80°	1000.7	13.0
80°-90°	110.9	1.4
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°	7690.0	100.0
0°-180°	7690.0	100.0



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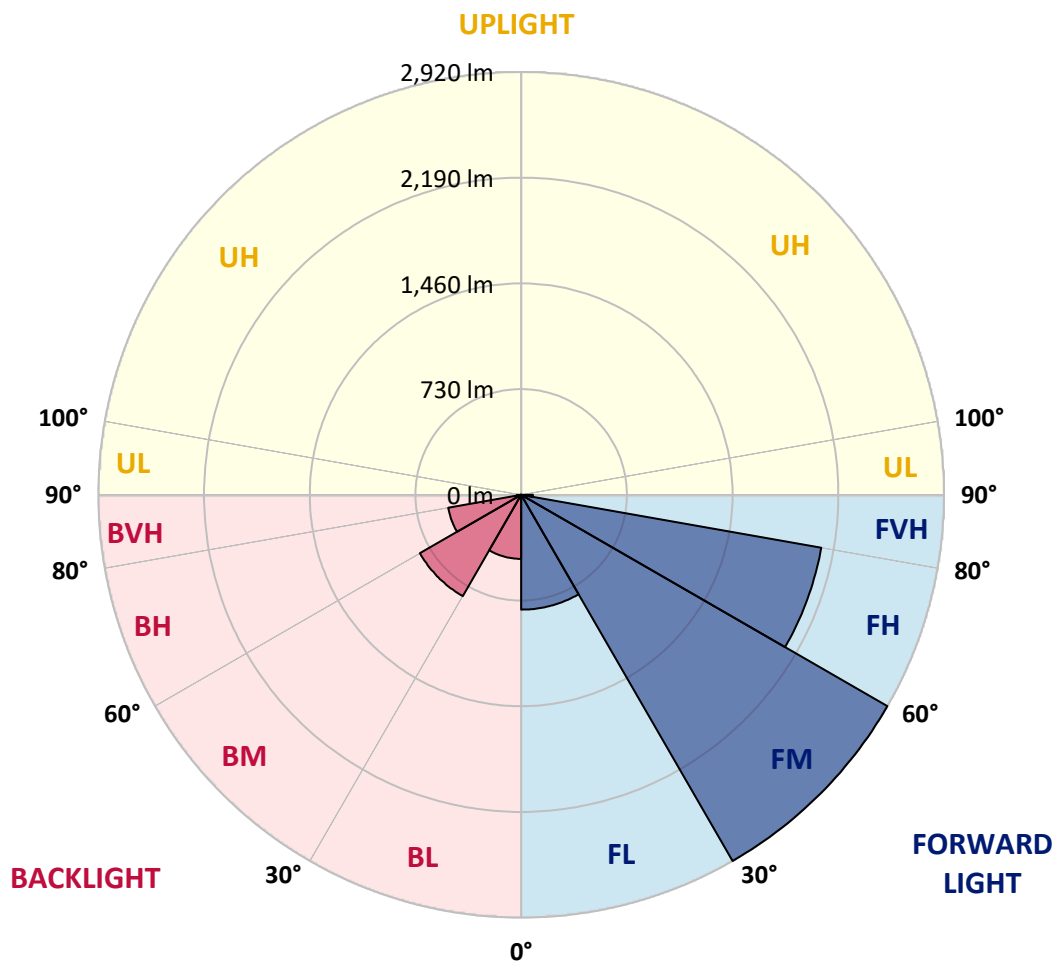
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	793.1	10.3			
FM	(30°-60°)	2920.3	38.0			
FH	(60°-80°)	2104.2	27.4			G2/5000
FVH	(80°-90°)	81.3	1.1			G1/100
BL	(0°-30°)	442.5	5.8	B1/500		
BM	(30°-60°)	807.6	10.5	B1/1000		
BH	(60°-80°)	511.5	6.7	B2/1000		G2/1000
BVH	(80°-90°)	29.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2
2.5°	1458.8	1455.5	1456.3	1453.0	1443.0	1432.3	1411.6	1394.2	1376.0	1372.7	1364.4
5°	1529.9	1528.3	1529.1	1524.1	1509.2	1490.2	1460.4	1432.3	1406.6	1400.0	1385.1
7.5°	1596.1	1596.1	1594.5	1586.2	1568.8	1544.8	1515.9	1479.5	1444.7	1435.6	1411.6
10°	1689.6	1685.5	1684.7	1670.6	1639.1	1606.0	1572.1	1530.8	1486.1	1472.8	1429.8
12.5°	1787.3	1783.1	1784.8	1764.9	1730.2	1675.6	1640.0	1591.2	1536.5	1522.5	1464.6
15°	1884.9	1877.4	1879.9	1862.6	1827.0	1777.3	1718.6	1664.0	1604.4	1587.8	1505.9
17.5°	1961.8	1956.9	1961.8	1949.4	1917.2	1870.8	1803.0	1745.1	1674.7	1656.5	1551.4
20°	2014.0	2014.8	2025.6	2022.2	1999.1	1956.1	1889.9	1827.8	1745.9	1726.0	1602.7
22.5°	2044.6	2047.9	2071.9	2092.6	2085.1	2035.5	1982.5	1913.0	1827.0	1807.1	1659.8
25°	2052.9	2057.8	2105.0	2158.8	2166.2	2127.3	2081.8	2005.7	1927.1	1905.6	1733.5
27.5°	2071.9	2076.0	2123.2	2184.4	2229.9	2212.6	2181.9	2107.5	2037.1	2013.1	1817.0
30°	2049.6	2052.9	2104.2	2185.3	2265.5	2290.3	2282.9	2224.1	2169.5	2142.2	1906.4
32.5°	1937.9	1951.9	2023.9	2160.4	2294.5	2366.5	2386.3	2360.7	2325.9	2295.3	2014.0
35°	1829.5	1839.4	1932.1	2102.5	2292.0	2430.2	2502.2	2541.0	2537.7	2507.1	2187.7
37.5°	1740.9	1752.5	1827.8	2018.9	2268.8	2491.4	2632.1	2769.4	2831.5	2812.4	2488.9
40°	1635.8	1649.9	1718.6	1908.1	2214.2	2529.5	2794.2	3025.1	3209.6	3220.4	2873.7
42.5°	1504.3	1526.6	1588.7	1766.6	2135.6	2551.0	2955.6	3308.1	3661.4	3668.0	3232.8
45°	1387.6	1405.8	1464.6	1617.6	2022.2	2552.6	3102.0	3614.2	4071.8	4066.0	3555.5
47.5°	1275.9	1299.9	1358.6	1491.9	1866.7	2518.7	3216.2	3923.7	4428.4	4417.7	3880.7
50°	976.4	1004.5	1209.7	1374.4	1684.7	2425.2	3296.5	4241.4	4763.5	4750.3	4189.3
52.5°	883.7	889.5	950.7	1243.6	1548.1	2245.7	3318.0	4572.4	5074.7	5049.0	4462.4
55°	837.4	837.4	866.3	1023.5	1377.7	1966.0	3251.8	4891.8	5375.0	5346.1	4737.9
57.5°	780.3	781.9	823.3	896.9	1213.0	1698.7	3073.1	5206.2	5671.2	5640.6	5005.1
60°	733.9	736.4	774.5	837.4	1048.4	1479.5	2721.4	5477.6	5904.6	5871.5	5278.2
62.5°	693.4	695.9	722.3	787.7	959.0	1362.8	2354.9	5629.0	6123.0	6108.1	5533.9
65°	642.1	650.4	668.6	729.0	872.1	1270.1	1973.4	5840.0	6362.1	6359.7	5722.5
67.5°	577.5	585.0	602.4	657.0	789.4	1163.4	1742.6	6005.5	6315.0	6313.3	5701.8
70°	500.6	500.6	526.2	576.7	688.4	1029.3	1532.4	5552.9	5979.0	5967.5	5311.3
72.5°	415.4	416.2	441.8	492.3	581.7	855.6	1179.1	4734.6	5523.9	5551.3	4708.9
75°	357.5	358.3	380.6	427.0	494.0	680.2	826.6	2529.5	4709.8	4731.3	3963.4
77.5°	213.5	209.3	239.1	273.9	313.6	391.4	509.7	1283.4	2690.0	3107.0	2897.7
80°	53.0	54.6	146.5	174.6	192.0	177.9	228.4	515.5	1052.5	1211.4	1654.0
82.5°	29.8	33.1	87.7	108.4	105.1	53.0	77.8	254.0	598.2	673.5	791.0
85°	14.1	15.7	30.6	43.9	34.8	33.1	28.1	109.2	316.1	365.7	388.1
87.5°	7.4	7.4	14.1	17.4	15.7	15.7	11.6	8.3	5.8	6.6	5.0
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°	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2	1370.2
2.5°	1363.6	1357.8	1343.8	1328.9	1323.9	1314.8	1314.8	1313.1	1308.2	1300.7	1290.8
5°	1376.9	1366.1	1343.8	1318.1	1298.2	1277.6	1268.5	1260.2	1252.7	1239.5	1230.4
7.5°	1392.6	1374.4	1338.8	1299.9	1263.5	1235.4	1218.8	1205.6	1194.8	1185.7	1177.4
10°	1405.0	1376.0	1327.2	1277.6	1227.1	1187.4	1165.0	1149.3	1136.9	1134.4	1125.3
12.5°	1430.6	1387.6	1323.9	1263.5	1200.6	1156.8	1123.7	1094.7	1083.9	1072.4	1068.2
15°	1465.4	1411.6	1323.9	1246.9	1173.3	1115.4	1075.7	1050.0	1020.2	1015.3	1002.8
17.5°	1500.1	1433.9	1318.9	1218.8	1132.8	1064.1	1012.0	983.8	966.4	937.5	929.2
20°	1534.9	1458.8	1311.5	1184.9	1082.3	998.7	934.2	896.1	898.6	851.4	852.3
22.5°	1568.8	1484.4	1309.0	1151.8	1029.3	919.3	843.2	796.8	799.3	764.5	756.3
25°	1623.4	1520.0	1313.1	1122.0	968.9	828.3	739.7	696.7	704.1	681.8	669.4
27.5°	1690.4	1562.2	1316.4	1085.6	889.5	727.3	636.3	619.7	616.4	592.4	578.4
30°	1756.6	1601.9	1314.8	1035.1	797.6	605.7	560.2	545.3	523.8	500.6	491.5
32.5°	1832.8	1649.9	1306.5	982.2	698.4	540.3	494.8	473.3	443.5	418.7	423.6
35°	1953.6	1720.2	1287.5	918.5	576.7	485.7	427.0	395.5	372.3	348.3	355.0
37.5°	2174.5	1843.5	1264.3	843.2	505.6	424.5	345.9	322.7	312.8	302.8	315.3
40°	2512.9	2096.7	1249.4	747.2	449.3	348.3	273.9	281.3	293.7	285.5	297.9
42.5°	2819.9	2321.0	1238.7	619.7	378.1	271.4	258.2	275.5	289.6	287.9	283.0
45°	3104.5	2522.8	1237.0	470.8	297.9	259.8	259.0	271.4	291.3	289.6	286.3
47.5°	3379.2	2722.3	1224.6	371.5	288.8	264.8	264.0	270.6	294.6	292.1	289.6
50°	3646.5	2897.7	1164.2	332.6	297.0	277.2	268.9	267.3	287.1	287.9	282.2
52.5°	3887.3	3040.0	1024.4	321.9	305.3	287.9	274.7	267.3	271.4	270.6	265.6
55°	4128.1	3169.9	852.3	316.9	308.6	295.4	293.7	272.2	263.1	248.2	254.0
57.5°	4344.9	3298.2	726.5	307.8	302.8	295.4	306.2	273.1	262.3	234.2	230.0
60°	4599.7	3432.2	591.6	297.0	292.9	289.6	288.8	273.1	256.5	224.2	213.5
62.5°	4843.8	3499.2	470.0	279.7	283.0	280.5	271.4	258.2	244.1	220.9	217.6
65°	4959.6	3395.0	338.4	257.3	269.7	273.9	259.0	232.5	211.8	192.0	187.0
67.5°	4836.4	3243.5	268.9	228.4	246.6	262.3	246.6	214.3	189.5	174.6	175.4
70°	4400.3	3030.9	219.3	191.1	212.7	244.1	238.3	204.4	172.9	159.7	161.3
72.5°	3951.0	2635.4	177.1	149.8	158.9	219.3	216.0	194.4	163.0	144.0	144.0
75°	3221.2	1882.4	129.1	108.4	109.2	179.6	194.4	162.2	133.2	107.6	104.3
77.5°	2240.7	1220.5	66.2	62.9	72.0	100.1	149.8	139.8	128.3	124.9	119.2
80°	1304.9	623.1	42.2	29.0	37.2	67.0	117.5	122.5	120.8	81.9	76.1
82.5°	616.4	179.6	24.8	18.2	21.5	31.4	69.5	105.9	100.1	58.7	56.3
85°	248.2	21.5	13.2	10.8	12.4	18.2	33.1	85.2	69.5	54.6	54.6
87.5°	5.0	5.0	5.0	5.0	5.8	8.3	16.5	46.3	37.2	31.4	31.4
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)