

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: P509308

Luminaire Tested: **VERD-CA2-70-730-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509308  
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-CA2-70-730-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 980mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9394 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

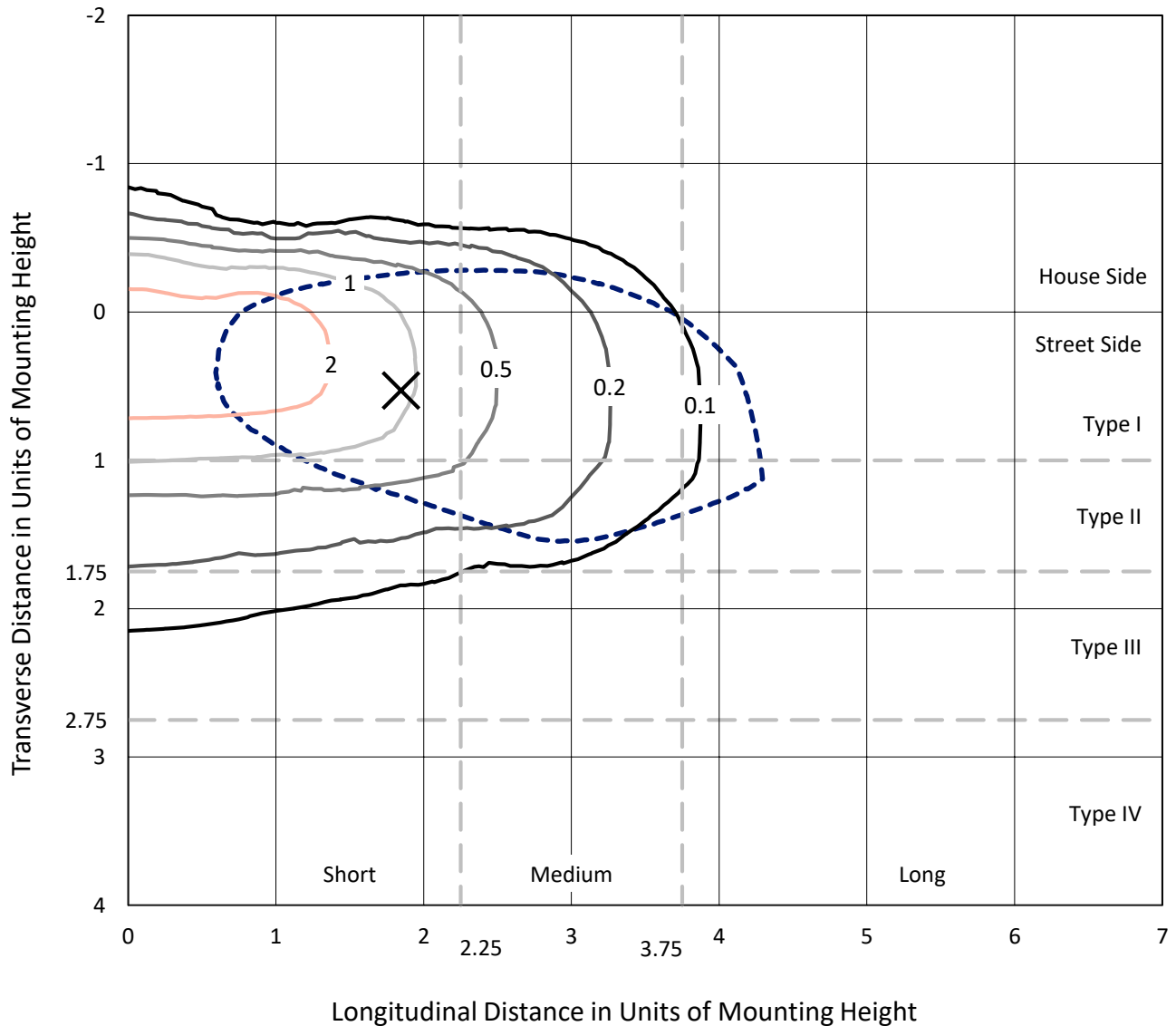
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

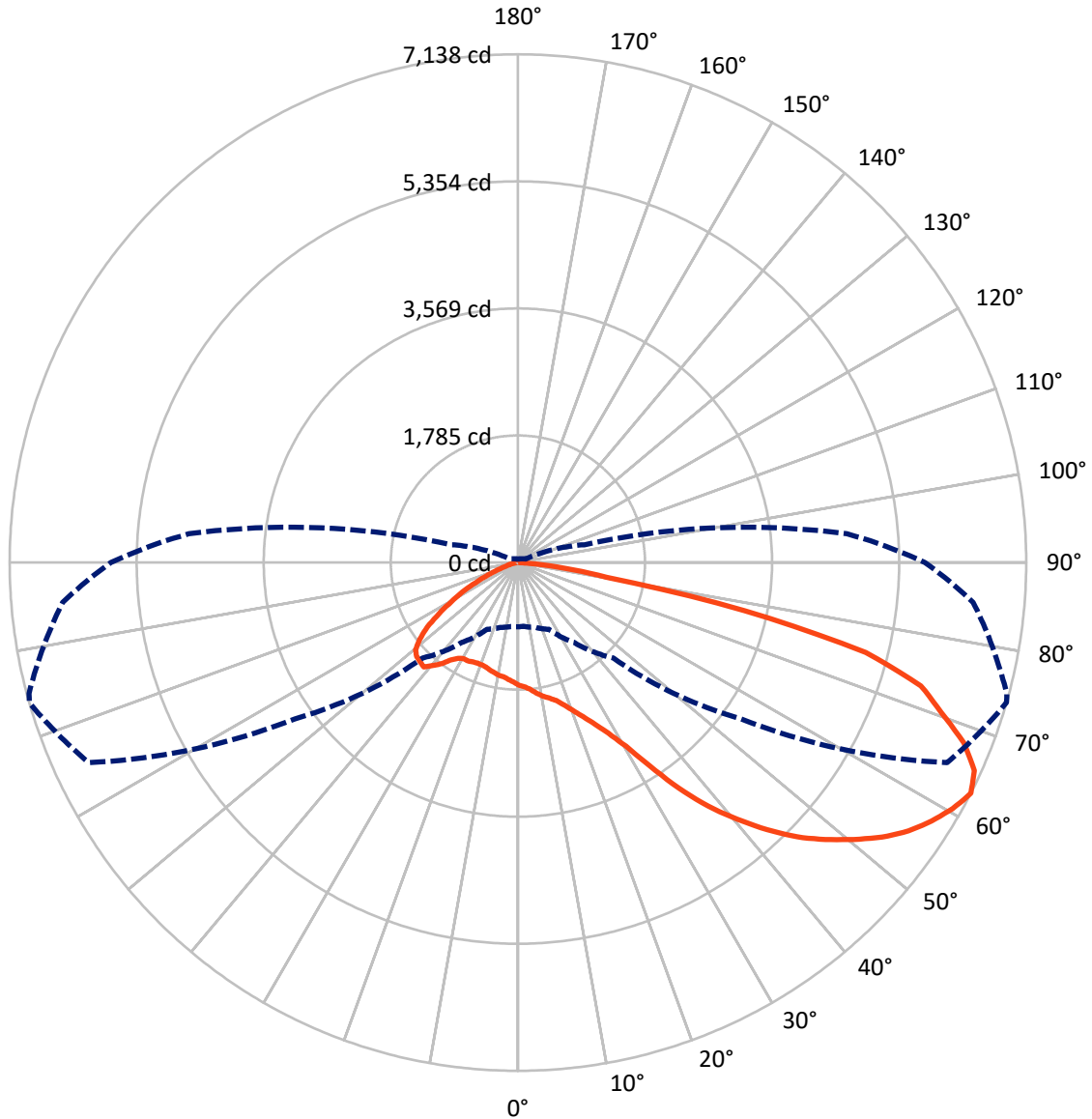
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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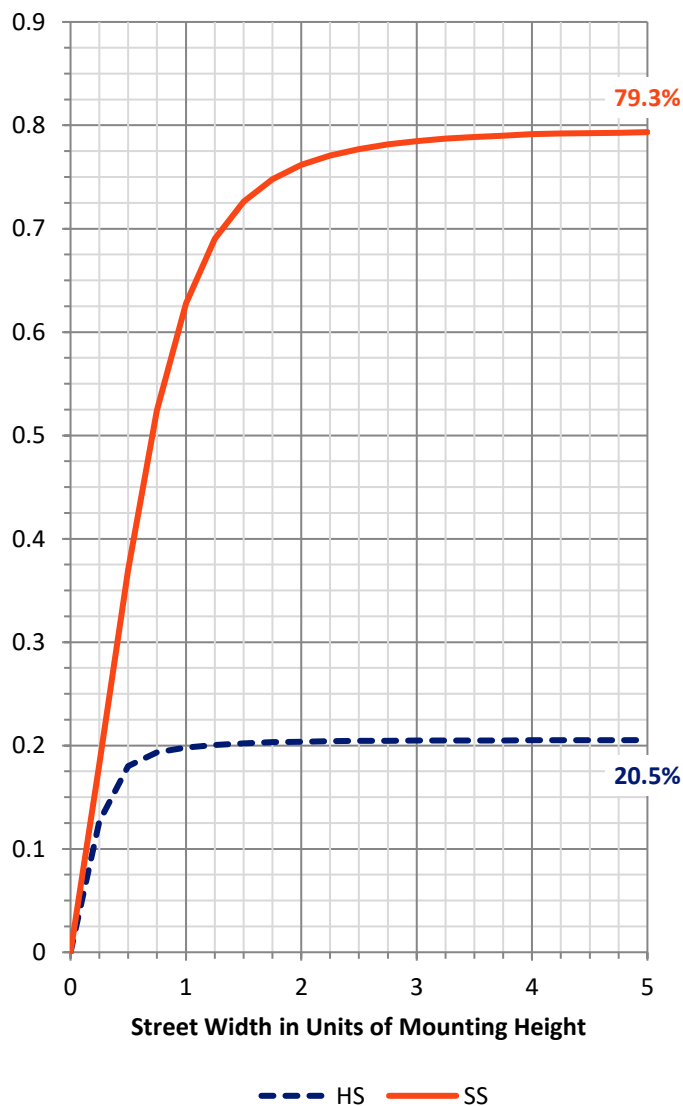
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1950.7	0.0	1950.7
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	7443.3	0.0	7443.3
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	9394.0	0.0	9394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.1	1.7
10°-20°	495.8	5.3
20°-30°	837.1	8.9
30°-40°	1245.1	13.3
40°-50°	1685.1	17.9
50°-60°	1938.7	20.6
60°-70°	1871.4	19.9
70°-80°	1059.5	11.3
80°-90°	97.2	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°	9394.0	100.0
0°-180°	9394.0	100.0

**Coefficient of Utilization**



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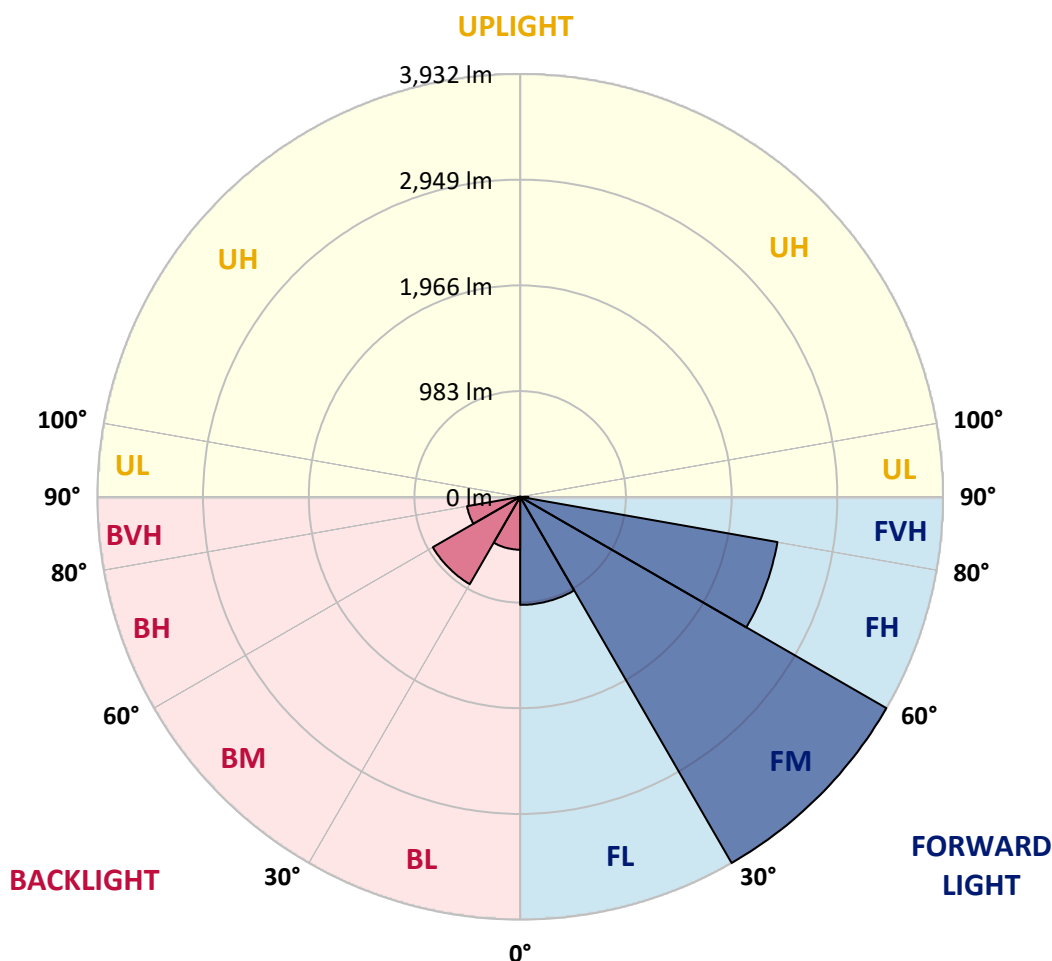
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.1	10.7			
FM	(30°-60°)	3932.2	41.9			
FH	(60°-80°)	2429.4	25.9			G2/5000
FVH	(80°-90°)	76.6	0.8			G1/100
BL	(0°-30°)	491.9	5.2	B1/500		
BM	(30°-60°)	936.8	10.0	B1/1000		
BH	(60°-80°)	501.5	5.3	B2/1000		G2/1000
BVH	(80°-90°)	20.6	0.2			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°	74°	75°	85°
0°	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	1877.5	1865.2	1855.1	1849.5	1833.8	1820.4	1793.5	1765.5	1746.5	1745.4	1727.5
5°	1955.9	1954.7	1932.3	1927.9	1906.6	1899.9	1873.0	1832.7	1785.7	1780.1	1731.9
7.5°	2058.9	2046.5	2021.9	2011.8	1987.2	1969.3	1933.5	1895.4	1848.4	1842.8	1758.8
10°	2158.5	2151.8	2137.2	2138.3	2103.6	2070.1	2016.3	1951.4	1906.6	1899.9	1796.9
12.5°	2273.8	2252.5	2227.9	2214.5	2179.8	2158.5	2107.0	2021.9	1951.4	1944.7	1841.7
15°	2353.3	2342.1	2319.7	2310.8	2277.2	2242.5	2183.1	2117.1	2010.7	2004.0	1887.6
17.5°	2438.4	2432.8	2407.0	2401.4	2369.0	2327.6	2281.7	2195.4	2102.5	2091.3	1942.4
20°	2495.5	2485.4	2482.1	2480.9	2472.0	2446.2	2388.0	2320.8	2217.8	2197.7	2013.0
22.5°	2571.6	2561.5	2566.0	2570.5	2582.8	2571.6	2533.5	2454.1	2352.2	2334.3	2123.8
25°	2579.5	2572.7	2603.0	2665.7	2690.3	2702.6	2673.5	2611.9	2513.4	2489.9	2255.9
27.5°	2600.7	2590.6	2623.1	2689.2	2800.0	2819.0	2824.6	2795.5	2712.7	2699.2	2435.0
30°	2562.7	2555.9	2606.3	2719.4	2843.7	2951.1	2992.6	3032.9	2994.8	2971.3	2684.7
32.5°	2469.7	2474.2	2540.3	2690.3	2919.8	3085.5	3193.0	3335.2	3403.4	3399.0	3126.9
35°	2334.3	2332.0	2442.9	2654.5	2926.5	3212.0	3412.4	3701.2	3892.7	3879.3	3591.5
37.5°	2219.0	2213.4	2338.7	2563.8	2932.1	3312.8	3669.9	4100.9	4343.9	4330.4	3971.1
40°	2077.9	2086.8	2198.8	2458.5	2885.1	3387.8	3893.8	4489.4	4738.0	4738.0	4364.0
42.5°	1935.7	1943.5	2054.4	2311.9	2816.8	3442.6	4104.3	4876.8	5129.8	5135.4	4633.8
45°	1811.4	1814.8	1915.6	2147.3	2693.6	3451.6	4298.0	5265.3	5497.0	5482.5	4941.7
47.5°	1593.1	1630.1	1787.9	1999.5	2525.7	3412.4	4461.4	5611.2	5812.7	5782.5	5235.0
50°	1269.6	1269.6	1487.9	1858.5	2333.1	3308.3	4590.2	5926.9	6112.8	6084.8	5491.4
52.5°	1166.6	1168.8	1236.0	1660.3	2138.3	3129.2	4664.1	6240.4	6407.2	6388.2	5734.4
55°	1111.7	1115.1	1146.4	1345.7	1961.5	2854.9	4666.3	6483.3	6656.9	6614.3	5939.2
57.5°	1028.9	1023.3	1089.3	1199.0	1754.3	2501.1	4556.6	6671.4	6850.5	6818.1	6107.2
60°	970.7	961.7	1006.5	1105.0	1531.5	2135.0	4264.4	6808.0	7016.2	7035.3	6271.7
62.5°	902.4	899.0	941.5	1034.5	1367.0	1895.4	3825.5	6649.0	7138.3	7108.0	6417.3
65°	834.1	827.4	867.7	940.4	1208.0	1699.5	3383.3	6413.9	7044.2	7071.1	6446.4
67.5°	744.5	743.4	781.4	835.2	1034.5	1480.0	2742.9	6104.9	6753.1	6734.1	6182.2
70°	635.9	635.9	674.0	721.0	864.3	1262.9	2105.9	5575.4	6305.3	6416.2	5729.9
72.5°	513.9	516.1	554.2	607.9	713.2	1028.9	1552.8	4848.8	5916.8	5738.8	5091.7
75°	274.3	246.3	434.4	489.2	575.5	820.6	1062.5	3152.7	5045.8	4922.7	4224.1
77.5°	66.1	69.4	136.6	254.1	306.8	454.5	522.8	1459.9	3253.4	3449.3	3012.7
80°	43.7	48.1	73.9	180.2	204.9	241.8	207.1	635.9	1261.7	1344.6	1748.7
82.5°	22.4	24.6	45.9	71.7	72.8	62.7	78.4	320.2	667.3	723.2	840.8
85°	7.8	12.3	23.5	31.3	29.1	23.5	19.0	79.5	157.9	175.8	182.5
87.5°	0.0	0.0	3.4	3.4	2.2	2.2	3.4	3.4	4.5	3.4	3.4
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°	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9	1721.9
2.5°	1712.9	1700.6	1681.6	1661.4	1640.1	1622.2	1612.2	1617.8	1624.5	1603.2	1595.4
5°	1709.6	1688.3	1652.5	1609.9	1577.5	1545.0	1506.9	1498.0	1489.0	1477.8	1465.5
7.5°	1725.2	1693.9	1621.1	1581.9	1513.6	1453.2	1419.6	1395.0	1372.6	1352.4	1340.1
10°	1754.3	1696.1	1614.4	1534.9	1459.9	1386.0	1313.2	1298.7	1294.2	1265.1	1243.8
12.5°	1773.4	1701.7	1590.9	1494.6	1387.1	1307.6	1234.9	1193.4	1190.1	1176.7	1162.1
15°	1803.6	1724.1	1575.2	1444.2	1313.2	1229.3	1162.1	1108.4	1081.5	1080.4	1069.2
17.5°	1858.5	1749.9	1550.6	1392.7	1253.9	1159.9	1063.6	1043.4	998.6	972.9	966.2
20°	1914.4	1787.9	1543.9	1341.2	1176.7	1060.2	986.3	930.3	894.5	867.7	850.9
22.5°	1987.2	1842.8	1546.1	1311.0	1114.0	985.2	888.9	806.1	740.0	707.6	691.9
25°	2092.4	1906.6	1562.9	1265.1	1040.1	904.6	764.7	654.9	562.0	538.5	527.3
27.5°	2226.8	1996.2	1586.4	1218.1	971.8	796.0	614.6	491.5	414.2	396.3	385.1
30°	2432.8	2130.5	1589.8	1189.0	910.2	654.9	460.1	363.9	303.4	284.4	286.6
32.5°	2820.2	2418.2	1634.5	1128.5	800.5	502.7	338.1	265.3	219.4	212.7	223.9
35°	3270.2	2757.5	1720.8	1097.2	675.1	363.9	241.8	194.8	165.7	174.7	179.1
37.5°	3560.2	3056.4	1858.5	1025.5	528.4	267.6	169.1	152.3	146.7	152.3	162.3
40°	3898.3	3299.3	1976.0	952.7	375.1	183.6	135.5	138.8	132.1	131.0	135.5
42.5°	4172.6	3549.0	2101.4	832.9	260.9	136.6	124.3	126.5	122.0	116.4	116.4
45°	4433.4	3765.1	2100.3	671.7	172.4	120.9	114.2	118.7	117.6	109.7	108.6
47.5°	4661.8	3983.4	2101.4	488.1	131.0	110.8	106.4	110.8	110.8	104.1	103.0
50°	4945.1	4164.7	2067.8	312.4	119.8	103.0	101.9	100.8	105.2	96.3	94.0
52.5°	5118.6	4296.8	1916.7	210.5	110.8	97.4	95.2	92.9	95.2	87.3	87.3
55°	5308.9	4461.4	1719.6	166.8	105.2	90.7	89.6	87.3	87.3	78.4	79.5
57.5°	5516.0	4595.8	1454.3	146.7	100.8	86.2	84.0	80.6	76.1	69.4	68.3
60°	5666.1	4623.8	1190.1	133.2	97.4	84.0	75.0	70.5	62.7	58.2	57.1
62.5°	5716.4	4638.3	965.1	119.8	91.8	77.2	67.2	59.3	50.4	47.0	47.0
65°	5675.0	4470.4	723.2	108.6	85.1	71.7	59.3	48.1	39.2	35.8	34.7
67.5°	5408.6	4161.4	526.2	97.4	75.0	64.9	51.5	39.2	31.3	28.0	28.0
70°	4923.8	3797.5	356.0	81.7	64.9	57.1	48.1	31.3	25.7	22.4	21.3
72.5°	4395.4	3219.8	227.3	66.1	50.4	44.8	34.7	26.9	21.3	16.8	16.8
75°	3476.2	2529.1	157.9	48.1	35.8	33.6	26.9	22.4	17.9	13.4	13.4
77.5°	2419.4	1643.5	124.3	36.9	24.6	22.4	20.2	16.8	14.6	11.2	10.1
80°	1402.8	988.6	75.0	24.6	16.8	14.6	13.4	13.4	11.2	7.8	7.8
82.5°	696.4	412.0	32.5	15.7	11.2	10.1	9.0	7.8	7.8	5.6	5.6
85°	136.6	70.5	12.3	7.8	5.6	5.6	4.5	4.5	3.4	2.2	2.2
87.5°	4.5	3.4	3.4	3.4	2.2	2.2	1.1	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)