

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: P507721

Luminaire Tested: **VERD-S-CA1-80-727-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-80-727-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1500mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9214 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1  
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

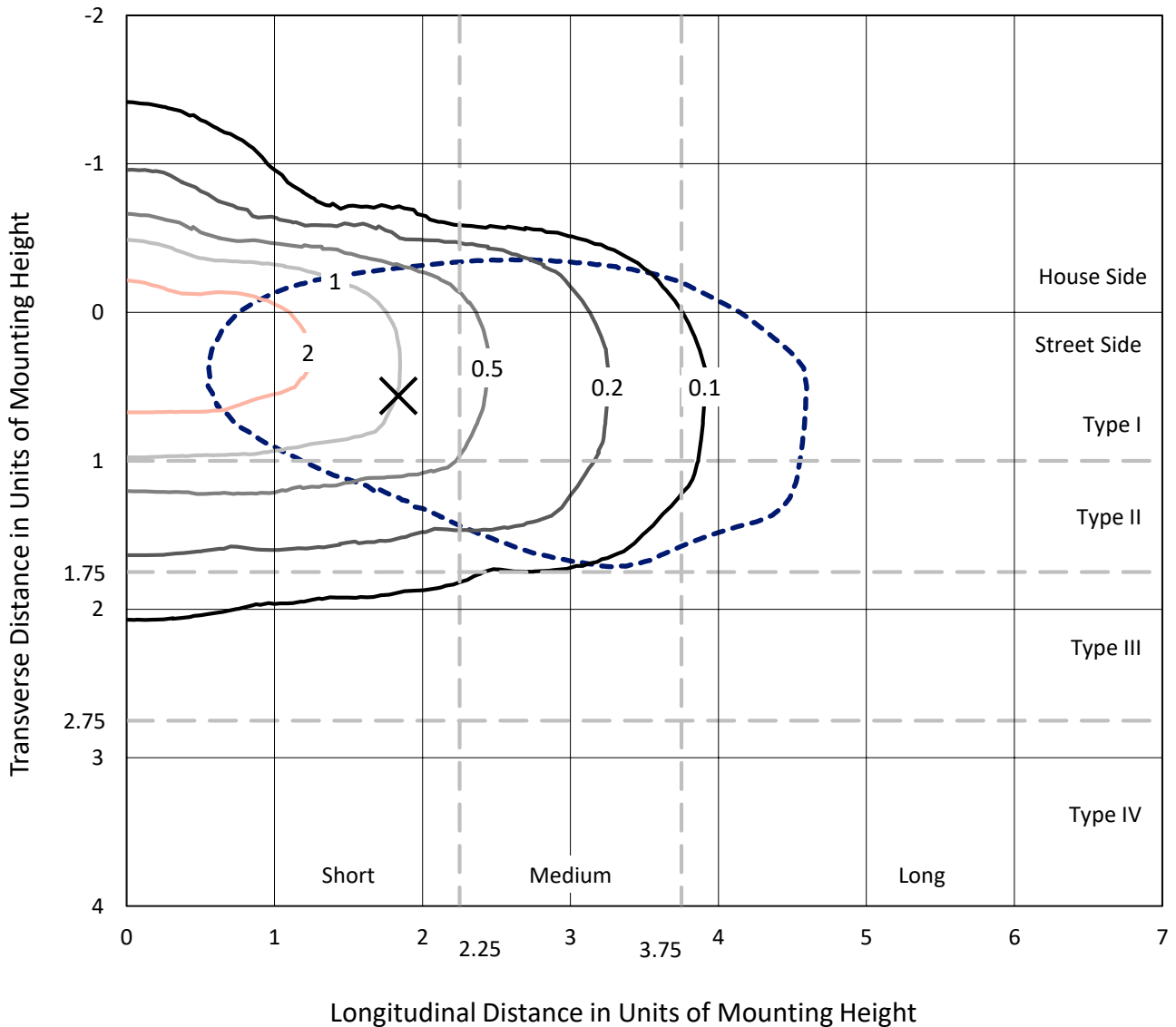


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### Iso-Footcandle Lines of Horizontal Illumination

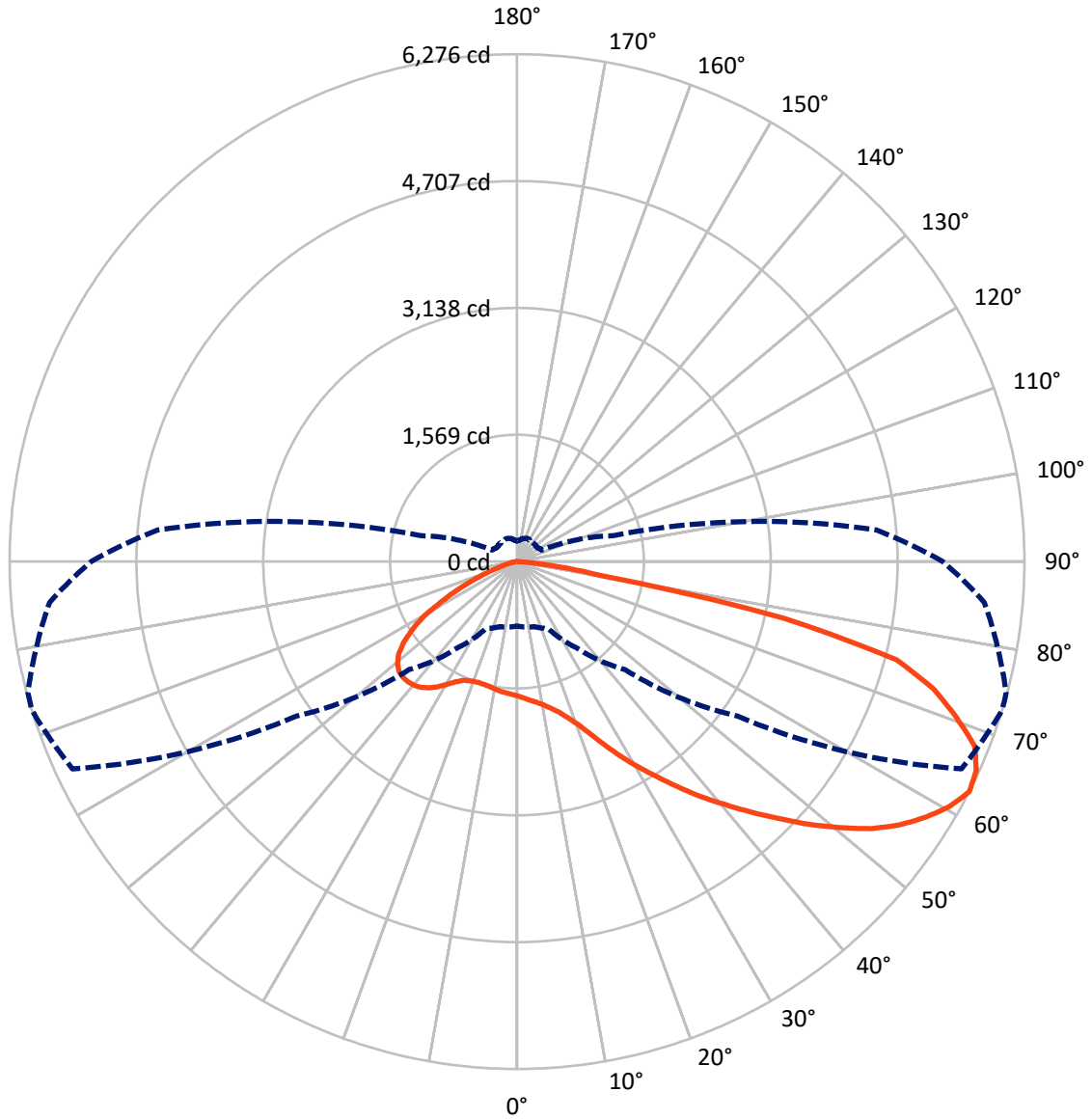
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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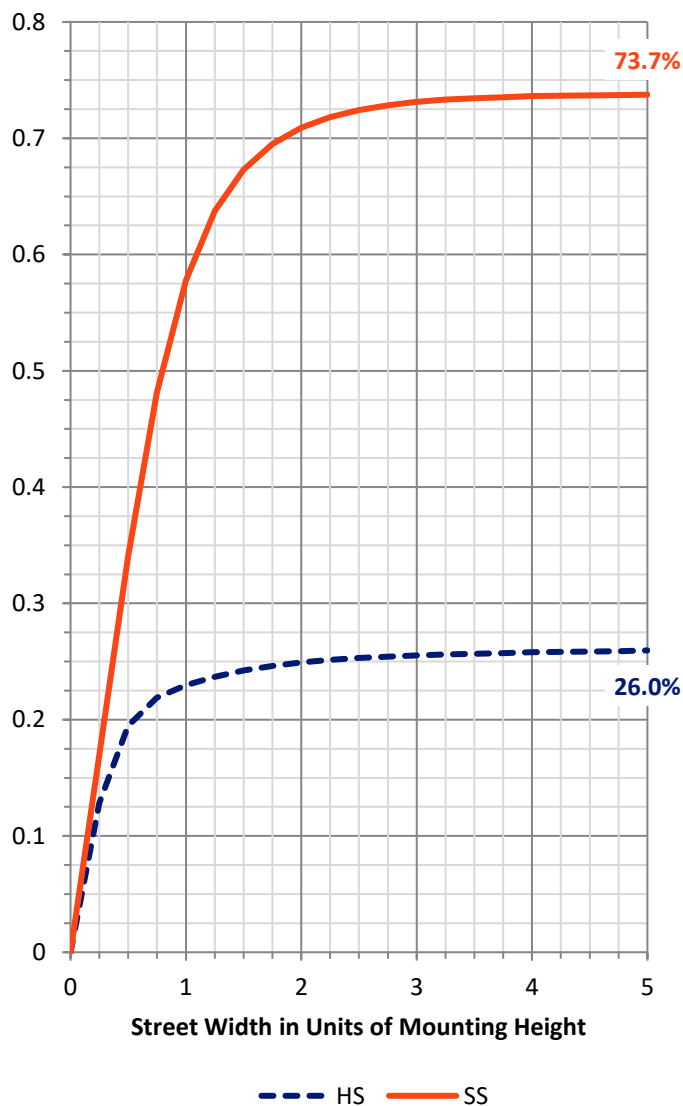
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2427.1	0.0	2427.1
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	6786.9	0.0	6786.9
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	9214.0	0.0	9214.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	1.7
10°-20°	491.6	5.3
20°-30°	851.0	9.2
30°-40°	1232.5	13.4
40°-50°	1578.6	17.1
50°-60°	1827.7	19.8
60°-70°	1840.5	20.0
70°-80°	1125.2	12.2
80°-90°	106.0	1.1
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°	9214.0	100.0
0°-180°	9214.0	100.0



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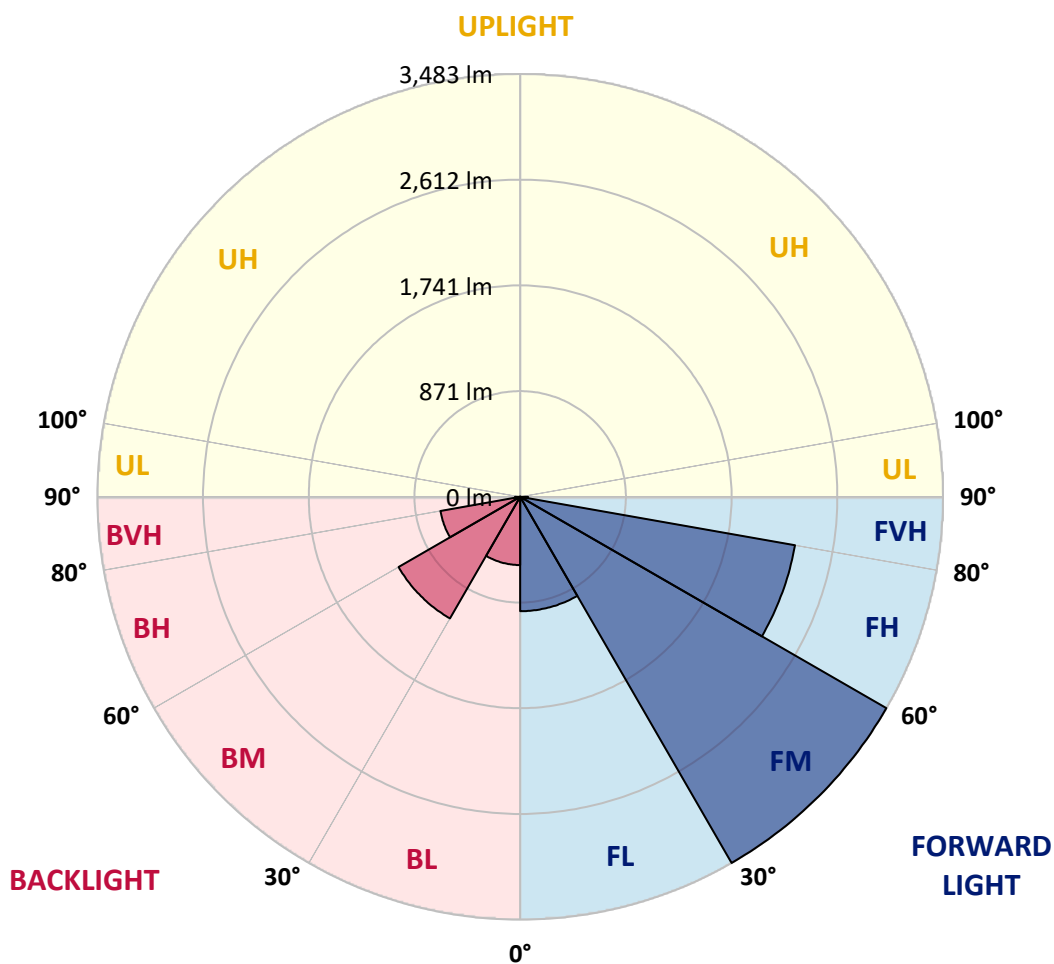
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.7	10.2			
FM	(30°-60°)	3482.6	37.8			
FH	(60°-80°)	2298.6	24.9			G2/5000
FVH	(80°-90°)	64.0	0.7			G1/100
BL	(0°-30°)	561.8	6.1	B2/1000		
BM	(30°-60°)	1156.2	12.5	B2/2500		
BH	(60°-80°)	667.1	7.2	B2/1000		G2/1000
BVH	(80°-90°)	42.0	0.5			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°	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3
2.5°	1750.0	1747.4	1742.2	1739.6	1734.4	1721.4	1713.6	1700.7	1690.3	1687.7	1672.1
5°	1835.7	1838.3	1835.7	1827.9	1817.5	1799.3	1773.4	1739.6	1724.0	1718.8	1692.9
7.5°	1916.2	1916.2	1913.6	1903.2	1892.8	1869.4	1833.1	1794.1	1757.8	1747.4	1713.6
10°	1994.1	1994.1	1986.3	1975.9	1960.3	1931.7	1895.4	1846.1	1801.9	1786.3	1729.2
12.5°	2077.1	2074.5	2064.2	2048.6	2027.8	2004.4	1965.5	1911.0	1861.6	1843.5	1763.0
15°	2142.1	2142.1	2134.3	2123.9	2105.7	2077.1	2040.8	1994.1	1929.1	1913.6	1809.7
17.5°	2199.2	2201.8	2196.6	2196.6	2181.0	2160.2	2129.1	2090.1	2027.8	2004.4	1879.8
20°	2245.9	2243.3	2253.7	2261.5	2266.7	2253.7	2235.5	2209.6	2147.2	2123.9	1970.7
22.5°	2266.7	2271.9	2303.0	2342.0	2365.4	2367.9	2365.4	2362.8	2308.2	2277.1	2095.3
25°	2277.1	2284.9	2331.6	2399.1	2451.0	2490.0	2531.5	2557.5	2508.2	2484.8	2282.3
27.5°	2287.5	2295.2	2349.8	2432.9	2531.5	2625.0	2708.1	2757.4	2721.1	2692.5	2474.4
30°	2269.3	2277.1	2339.4	2456.2	2596.4	2760.0	2876.8	2947.0	2941.8	2923.6	2695.1
32.5°	2230.3	2238.1	2308.2	2453.6	2663.9	2897.6	3027.4	3144.3	3167.6	3149.5	2915.8
35°	2160.2	2170.6	2251.1	2422.5	2695.1	3011.9	3185.8	3357.2	3416.9	3419.5	3157.3
37.5°	2064.2	2069.4	2168.0	2362.8	2705.5	3092.4	3318.2	3562.3	3684.3	3686.9	3403.9
40°	1934.3	1947.3	2069.4	2287.5	2682.1	3149.5	3450.7	3785.6	3946.6	3928.4	3671.4
42.5°	1786.3	1796.7	1916.2	2168.0	2627.6	3183.2	3572.7	4019.3	4232.2	4221.8	3923.2
45°	1653.9	1669.5	1760.4	2001.8	2523.7	3191.0	3679.1	4253.0	4528.2	4515.2	4180.3
47.5°	1477.4	1516.3	1638.3	1853.9	2367.9	3157.3	3775.2	4569.7	4855.3	4837.2	4450.3
50°	1137.2	1150.2	1407.3	1729.2	2191.4	3074.2	3858.3	4863.1	5172.1	5159.1	4733.3
52.5°	1025.6	1036.0	1119.1	1586.4	2014.8	2926.2	3907.6	5239.6	5488.9	5452.5	4987.7
55°	963.3	973.7	1020.4	1267.1	1861.6	2702.9	3918.0	5559.0	5745.9	5712.2	5226.6
57.5°	906.2	913.9	958.1	1085.3	1685.1	2393.9	3863.5	5816.0	5964.0	5930.3	5442.1
60°	846.4	854.2	901.0	986.6	1467.0	2110.9	3684.3	6015.9	6148.4	6114.6	5636.9
62.5°	797.1	810.1	833.5	913.9	1311.2	1890.2	3333.8	6065.3	6275.6	6262.6	5803.0
65°	737.4	742.6	778.9	843.8	1158.0	1737.0	2957.3	5922.5	6241.8	6265.2	5901.7
67.5°	669.9	672.5	706.2	753.0	968.5	1586.4	2622.4	5730.3	6106.8	6145.8	5829.0
70°	579.0	581.6	612.8	662.1	802.3	1376.1	2277.1	5447.3	5761.5	5797.8	5548.6
72.5°	482.9	482.9	508.9	563.4	662.1	1139.8	1822.7	4826.8	5390.2	5449.9	5091.6
75°	210.3	218.1	262.2	314.2	428.4	838.6	1243.7	3736.3	4844.9	4886.5	4463.3
77.5°	57.1	57.1	67.5	88.3	124.6	373.9	394.7	1643.5	3375.4	3481.8	3300.1
80°	46.7	46.7	51.9	67.5	85.7	184.3	132.4	529.7	1043.8	1376.1	1711.0
82.5°	26.0	26.0	31.2	38.9	46.7	46.7	46.7	270.0	514.1	547.8	716.6
85°	13.0	15.6	15.6	18.2	18.2	15.6	15.6	54.5	98.7	111.6	171.4
87.5°	5.2	5.2	5.2	5.2	2.6	2.6	5.2	7.8	7.8	10.4	13.0
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°	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3	1664.3
2.5°	1666.9	1659.1	1648.7	1640.9	1625.4	1609.8	1599.4	1591.6	1589.0	1586.4	1586.4
5°	1677.3	1664.3	1635.8	1607.2	1583.8	1563.1	1544.9	1531.9	1526.7	1524.1	1524.1
7.5°	1692.9	1674.7	1628.0	1586.4	1544.9	1513.7	1485.2	1467.0	1456.6	1459.2	1467.0
10°	1700.7	1672.1	1609.8	1568.2	1513.7	1464.4	1430.6	1409.9	1402.1	1402.1	1399.5
12.5°	1721.4	1679.9	1596.8	1531.9	1485.2	1417.7	1378.7	1360.5	1350.1	1334.6	1329.4
15°	1752.6	1700.7	1591.6	1505.9	1433.2	1373.5	1321.6	1295.6	1287.8	1267.1	1267.1
17.5°	1809.7	1737.0	1591.6	1477.4	1383.9	1326.8	1259.3	1222.9	1217.7	1204.7	1202.1
20°	1877.2	1786.3	1604.6	1448.8	1332.0	1256.7	1181.4	1145.0	1132.0	1119.1	1119.1
22.5°	1983.7	1861.6	1628.0	1428.0	1277.4	1184.0	1100.9	1049.0	1028.2	1025.6	1020.4
25°	2147.2	1981.1	1664.3	1407.3	1222.9	1103.5	1020.4	952.9	919.1	913.9	911.3
27.5°	2326.4	2144.7	1737.0	1389.1	1163.2	1012.6	913.9	841.2	799.7	794.5	791.9
30°	2518.5	2313.4	1833.1	1373.5	1087.9	908.8	797.1	727.0	688.1	677.7	680.3
32.5°	2728.9	2495.2	1936.9	1360.5	1007.4	773.7	669.9	623.1	581.6	563.4	566.0
35°	2934.0	2656.2	2027.8	1350.1	901.0	651.7	571.2	521.9	480.3	457.0	457.0
37.5°	3165.1	2845.7	2103.1	1329.4	786.7	568.6	490.7	441.4	410.2	389.5	389.5
40°	3390.9	3035.2	2162.8	1290.4	659.5	501.1	405.0	376.5	355.7	342.7	337.5
42.5°	3611.6	3224.8	2201.8	1225.5	553.0	420.6	337.5	334.9	337.5	324.6	322.0
45°	3840.1	3411.7	2230.3	1121.7	477.7	347.9	301.2	319.4	337.5	332.3	332.3
47.5°	4089.4	3593.5	2253.7	952.9	405.0	306.4	298.6	316.8	340.1	342.7	342.7
50°	4328.3	3777.8	2245.9	737.4	355.7	303.8	301.2	306.4	337.5	345.3	340.1
52.5°	4551.5	3936.2	2183.6	537.5	332.3	309.0	309.0	303.8	329.7	334.9	337.5
55°	4777.4	4084.2	2043.4	425.8	319.4	309.0	322.0	309.0	316.8	319.4	324.6
57.5°	4982.6	4234.8	1835.7	381.7	316.8	309.0	322.0	314.2	314.2	303.8	301.2
60°	5140.9	4359.4	1583.8	363.5	309.0	311.6	316.8	316.8	309.0	285.6	277.8
62.5°	5265.6	4463.3	1238.5	340.1	303.8	306.4	303.8	314.2	296.0	262.2	254.5
65°	5335.7	4481.4	947.7	314.2	290.8	301.2	293.4	290.8	275.2	238.9	223.3
67.5°	5257.8	4354.2	662.1	288.2	275.2	293.4	280.4	270.0	251.9	218.1	197.3
70°	4956.6	3985.5	436.2	254.5	254.5	275.2	264.8	249.3	225.9	199.9	176.6
72.5°	4390.6	3435.1	262.2	210.3	225.9	251.9	246.7	225.9	158.4	122.0	106.5
75°	3712.9	2822.3	168.8	158.4	184.3	225.9	228.5	202.5	135.0	109.1	109.1
77.5°	2697.7	1853.9	98.7	88.3	122.0	181.8	194.7	148.0	145.4	202.5	148.0
80°	1383.9	898.4	75.3	54.5	64.9	135.0	109.1	111.6	220.7	163.6	103.9
82.5°	599.8	355.7	46.7	38.9	41.5	67.5	70.1	184.3	171.4	96.1	64.9
85°	127.2	67.5	26.0	26.0	26.0	31.2	38.9	199.9	106.5	49.3	20.8
87.5°	13.0	13.0	13.0	13.0	13.0	13.0	10.4	10.4	10.4	7.8	7.8
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)