

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: P509287

Luminaire Tested: **VERD-CA2-60-760-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
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-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 850mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9204 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

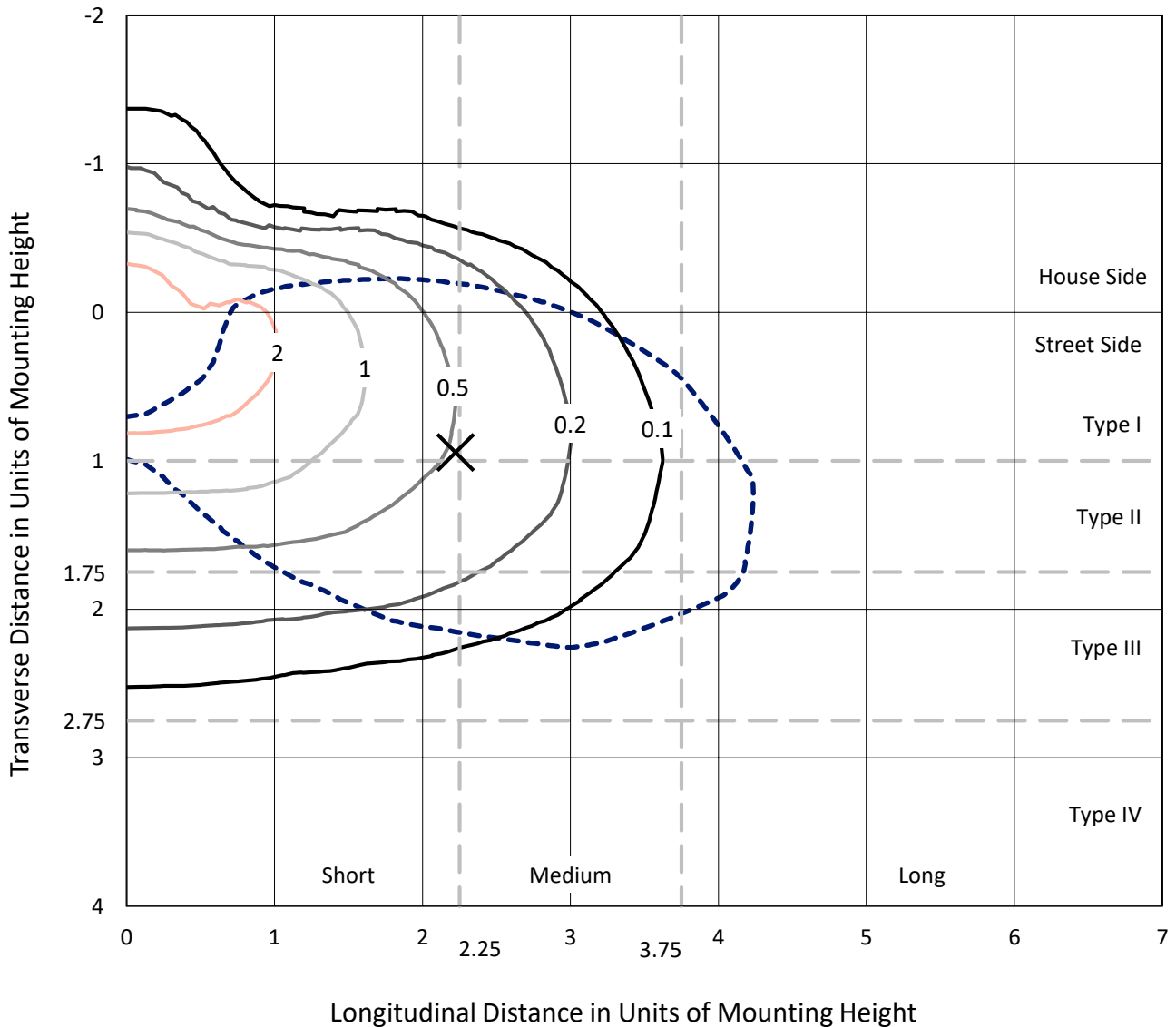
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

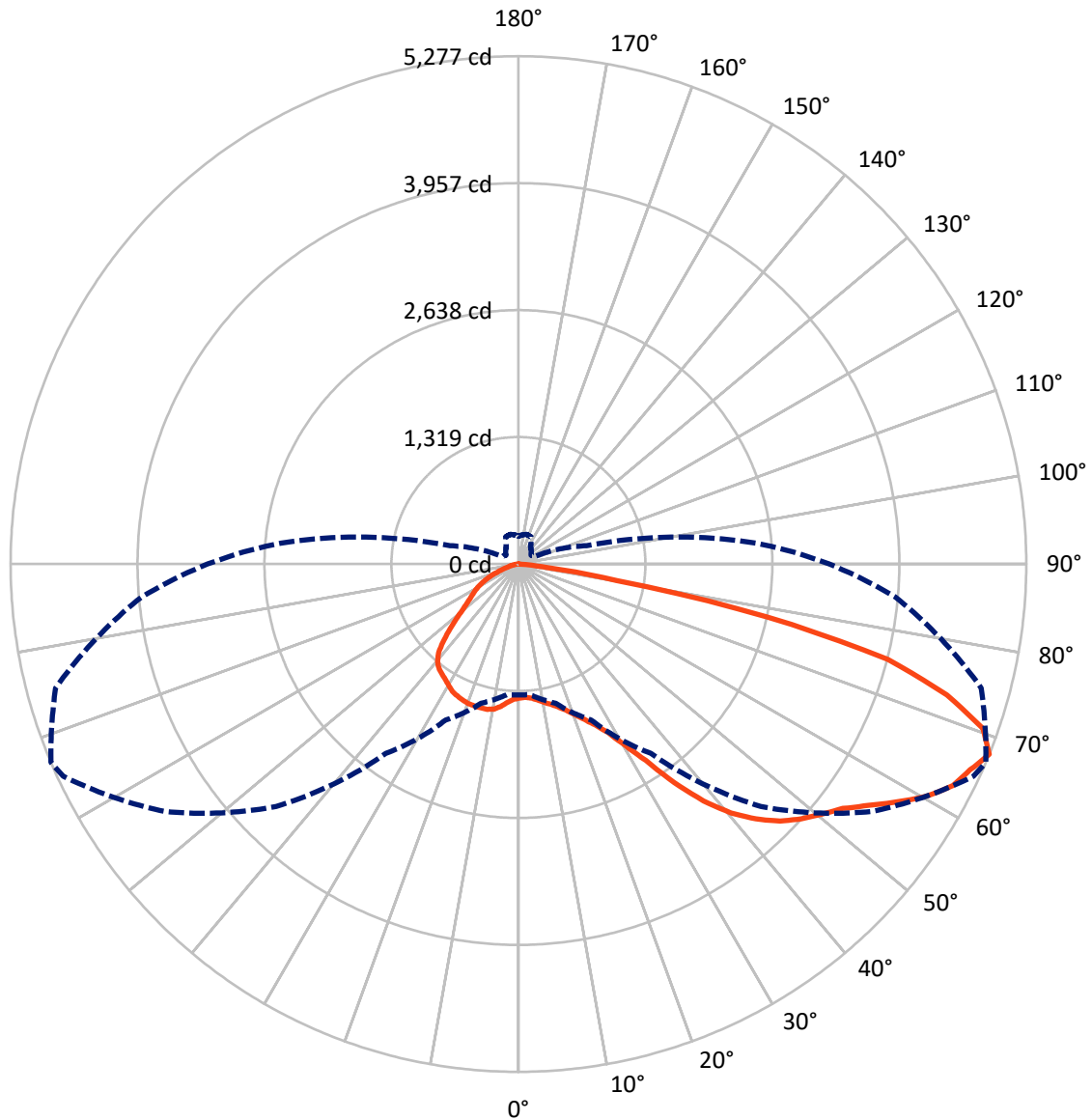
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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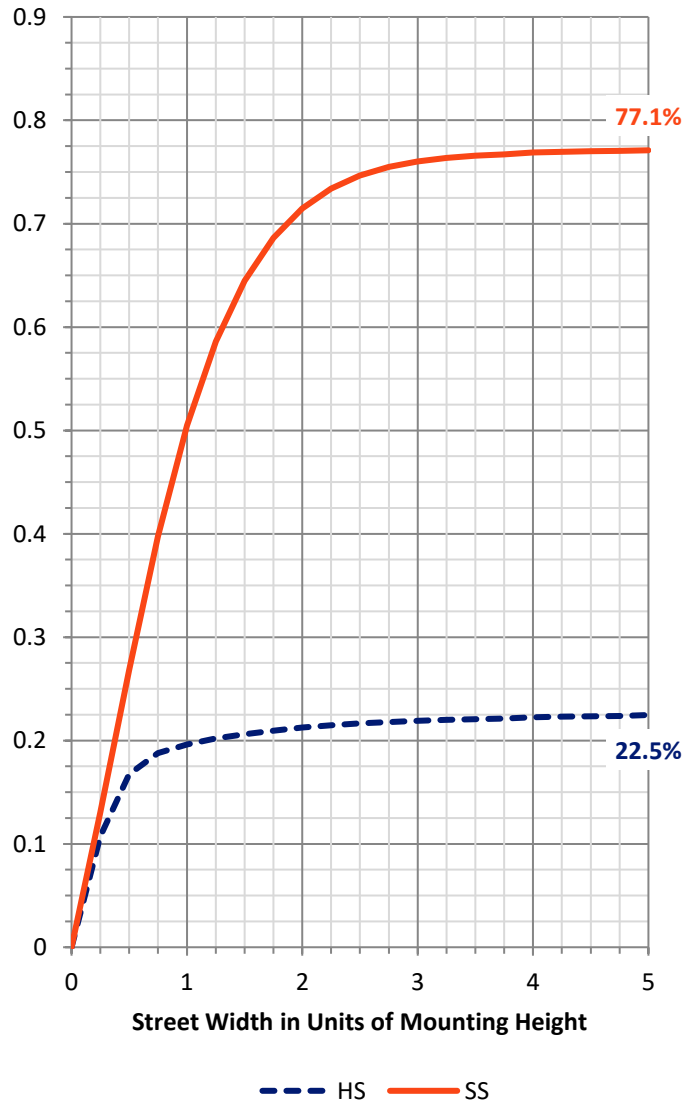
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2104.6	0.0	2104.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	7099.4	0.0	7099.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9204.0	0.0	9204.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	1.5
10°-20°	451.3	4.9
20°-30°	779.8	8.5
30°-40°	1183.7	12.9
40°-50°	1608.4	17.5
50°-60°	1912.9	20.8
60°-70°	1968.1	21.4
70°-80°	1073.6	11.7
80°-90°	85.3	0.9
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°	9204.0	100.0
0°-180°	9204.0	100.0

**Coefficient of Utilization**



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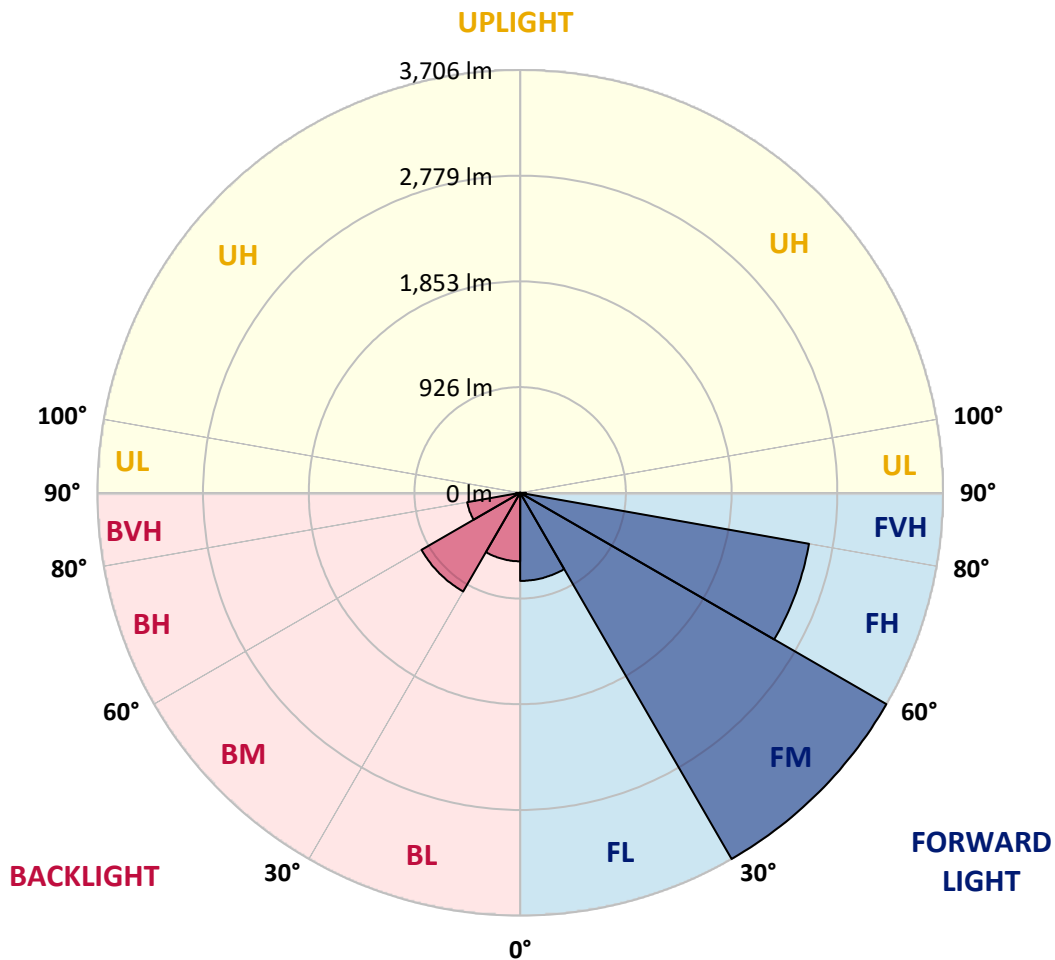
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.0	8.4			
FM (30°-60°)	3705.9	40.3			
FH (60°-80°)	2570.5	27.9			G2/5000
FVH (80°-90°)	51.1	0.6			G1/100
BL (0°-30°)	600.1	6.5	B2/1000		
BM (30°-60°)	999.0	10.9	B1/1000		
BH (60°-80°)	471.2	5.1	B1/500		G1/500
BVH (80°-90°)	34.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4
2.5°	1400.4	1394.4	1386.4	1389.4	1383.4	1393.4	1389.4	1387.4	1387.4	1388.4	1393.4
5°	1432.3	1426.3	1420.3	1419.3	1407.4	1411.4	1405.4	1399.4	1399.4	1398.4	1400.4
7.5°	1488.1	1480.1	1473.1	1472.2	1457.2	1455.2	1437.3	1425.3	1425.3	1424.3	1427.3
10°	1561.9	1558.9	1544.9	1535.9	1518.0	1506.0	1484.1	1465.2	1461.2	1455.2	1463.2
12.5°	1632.6	1631.6	1618.7	1608.7	1583.8	1562.9	1527.0	1501.1	1496.1	1489.1	1495.1
15°	1721.3	1712.4	1698.4	1692.4	1656.5	1624.6	1583.8	1544.9	1539.9	1532.0	1536.9
17.5°	1819.0	1814.0	1792.1	1785.1	1740.3	1703.4	1652.6	1602.7	1594.7	1583.8	1582.8
20°	1936.6	1927.7	1910.7	1890.8	1846.9	1794.1	1735.3	1678.5	1671.5	1662.5	1643.6
22.5°	2063.2	2053.2	2036.3	2015.4	1959.5	1903.7	1830.0	1758.2	1754.2	1748.2	1713.4
25°	2183.8	2166.9	2168.9	2148.9	2099.1	2028.3	1941.6	1855.9	1853.9	1852.9	1797.1
27.5°	2312.4	2294.4	2288.5	2281.5	2234.6	2167.9	2070.2	1988.5	1981.5	1982.5	1897.7
30°	2433.0	2425.0	2420.0	2415.0	2392.1	2332.3	2238.6	2165.9	2187.8	2185.8	2069.2
32.5°	2526.7	2520.7	2541.6	2565.6	2559.6	2509.7	2444.9	2412.1	2434.0	2504.8	2403.1
35°	2609.4	2606.4	2646.3	2697.1	2733.0	2697.1	2690.1	2741.0	2791.8	2909.4	2850.6
37.5°	2699.1	2695.1	2729.0	2815.7	2878.5	2889.5	2942.3	3072.9	3121.7	3239.3	3115.7
40°	2698.1	2703.1	2784.8	2895.5	3010.1	3102.8	3211.4	3338.0	3400.8	3456.6	3265.2
42.5°	2654.3	2657.2	2759.9	2970.2	3136.7	3319.1	3415.8	3578.2	3621.1	3632.0	3441.7
45°	2609.4	2611.4	2723.0	2959.3	3242.3	3521.4	3629.0	3777.6	3810.5	3772.6	3561.3
47.5°	2544.6	2557.6	2678.2	2948.3	3333.0	3707.8	3794.5	3942.0	3955.0	3907.1	3660.9
50°	2467.9	2474.8	2613.4	2912.4	3392.8	3823.4	3926.1	4059.6	4084.5	4030.7	3784.5
52.5°	2374.2	2380.2	2530.7	2864.6	3425.7	3912.1	4026.7	4186.2	4220.1	4196.2	3893.2
55°	2266.5	2269.5	2423.0	2786.8	3416.7	3951.0	4114.4	4365.6	4422.4	4363.6	3983.9
57.5°	2132.0	2142.9	2317.4	2670.2	3349.0	3999.8	4272.9	4586.9	4659.7	4534.1	4051.7
60°	1993.4	2004.4	2162.9	2534.7	3235.3	4021.8	4436.4	4825.1	4888.9	4695.5	4093.5
62.5°	1837.9	1852.9	1984.5	2330.3	3032.0	3992.8	4557.0	5033.4	5069.3	4792.2	4082.6
65°	1611.7	1619.7	1763.2	2084.1	2766.9	3842.3	4552.0	5145.1	5157.0	4898.9	4034.7
67.5°	1360.5	1361.5	1497.1	1787.1	2402.1	3561.3	4482.2	5217.8	5276.6	4977.6	3930.1
70°	1034.6	1048.5	1154.2	1369.5	1963.5	3080.9	4252.0	5146.1	5118.1	4762.3	3630.0
72.5°	738.6	730.6	784.4	929.9	1374.5	2377.2	3665.9	4649.7	4655.7	4337.7	3158.6
75°	392.7	394.7	440.5	563.1	701.7	1546.9	2932.3	3928.1	3963.9	3719.7	2471.9
77.5°	87.7	99.7	151.5	215.3	305.0	495.4	1590.8	2576.5	2644.3	2447.9	1354.5
80°	67.8	68.8	99.7	122.6	134.6	237.2	505.3	934.9	1037.6	979.8	509.3
82.5°	44.9	45.8	65.8	67.8	64.8	108.6	229.2	280.1	308.0	269.1	189.4
85°	23.9	24.9	29.9	32.9	25.9	31.9	29.9	23.9	24.9	21.9	21.9
87.5°	5.0	3.0	4.0	3.0	3.0	2.0	3.0	3.0	3.0	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°	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4
2.5°	1393.4	1395.4	1400.4	1408.4	1412.3	1421.3	1427.3	1442.3	1463.2	1456.2	1447.2
5°	1401.4	1407.4	1424.3	1445.2	1461.2	1485.1	1497.1	1526.0	1549.9	1547.9	1532.0
7.5°	1431.3	1444.2	1465.2	1496.1	1523.0	1546.9	1563.8	1594.7	1616.7	1607.7	1592.8
10°	1469.2	1482.1	1505.0	1533.0	1552.9	1578.8	1589.8	1614.7	1628.6	1617.7	1604.7
12.5°	1504.0	1511.0	1527.0	1547.9	1558.9	1575.8	1580.8	1598.7	1611.7	1606.7	1590.8
15°	1537.9	1536.9	1539.9	1545.9	1549.9	1553.9	1554.9	1567.8	1576.8	1566.8	1555.9
17.5°	1575.8	1565.8	1552.9	1542.9	1528.0	1521.0	1508.0	1514.0	1513.0	1505.0	1496.1
20°	1623.7	1605.7	1565.8	1534.9	1496.1	1465.2	1438.3	1433.3	1433.3	1411.4	1410.4
22.5°	1680.5	1650.6	1583.8	1516.0	1453.2	1404.4	1354.5	1325.6	1304.7	1288.8	1281.8
25°	1754.2	1699.4	1599.7	1490.1	1397.4	1308.7	1233.9	1194.1	1154.2	1128.3	1124.3
27.5°	1833.0	1773.2	1609.7	1467.2	1320.7	1199.1	1095.4	1013.7	976.8	959.8	943.9
30°	1961.5	1855.9	1627.6	1418.3	1224.0	1064.5	926.9	831.3	795.4	783.4	773.5
32.5°	2273.5	2070.2	1644.6	1368.5	1120.3	916.0	734.6	653.8	622.9	634.9	638.9
35°	2664.2	2389.1	1725.3	1310.7	1012.7	747.5	565.1	511.3	513.3	531.3	537.2
37.5°	2929.4	2670.2	1889.8	1237.9	858.2	554.2	437.6	420.6	435.6	451.5	454.5
40°	3084.8	2798.8	2005.4	1148.2	675.8	414.6	328.9	317.0	348.9	384.7	406.7
42.5°	3250.3	2908.4	2065.2	1031.6	474.4	300.0	252.2	261.1	312.0	342.9	356.8
45°	3339.0	2994.1	2038.3	865.2	322.9	233.2	226.3	251.2	302.0	329.9	333.9
47.5°	3434.7	3079.9	1973.5	691.7	247.2	221.3	222.3	252.2	304.0	333.9	333.9
50°	3517.4	3150.6	1857.9	542.2	235.2	213.3	223.3	257.2	307.0	332.9	331.9
52.5°	3613.1	3182.5	1693.4	438.6	223.3	206.3	224.3	261.1	302.0	317.0	315.0
55°	3643.0	3159.6	1614.7	366.8	214.3	202.3	228.2	267.1	300.0	303.0	298.0
57.5°	3643.0	3097.8	1525.0	313.0	206.3	202.3	230.2	266.1	311.0	329.9	327.9
60°	3627.1	3033.0	1387.4	280.1	195.4	200.3	231.2	281.1	369.8	390.7	389.7
62.5°	3576.2	2928.4	1218.0	247.2	184.4	201.3	228.2	302.0	422.6	413.6	391.7
65°	3455.6	2731.0	987.7	217.3	172.4	201.3	224.3	331.9	375.8	358.8	350.8
67.5°	3228.4	2482.8	734.6	186.4	158.5	188.4	218.3	311.0	318.9	300.0	288.1
70°	2928.4	2103.1	471.4	157.5	143.5	177.4	214.3	292.0	308.0	285.1	270.1
72.5°	2440.0	1670.5	273.1	128.6	121.6	163.5	206.3	283.1	303.0	272.1	251.2
75°	1721.3	1054.5	179.4	94.7	97.7	139.5	191.4	265.1	284.1	246.2	216.3
77.5°	877.1	395.7	127.6	69.8	65.8	106.6	165.5	244.2	280.1	248.2	212.3
80°	310.0	199.3	83.7	45.8	42.9	65.8	126.6	207.3	263.1	242.2	235.2
82.5°	132.6	99.7	45.8	28.9	25.9	32.9	71.8	163.5	231.2	219.3	265.1
85°	18.9	16.9	13.0	11.0	11.0	15.0	22.9	80.7	156.5	178.4	216.3
87.5°	3.0	3.0	3.0	2.0	2.0	2.0	1.0	12.0	51.8	77.7	107.6
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)