

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: P509260

Luminaire Tested: **VERD-CA2-60-730-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509260  
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-CA2-60-730-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 850mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8239 lumens  
Efficiency: N/A  
Efficacy: 130.0 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

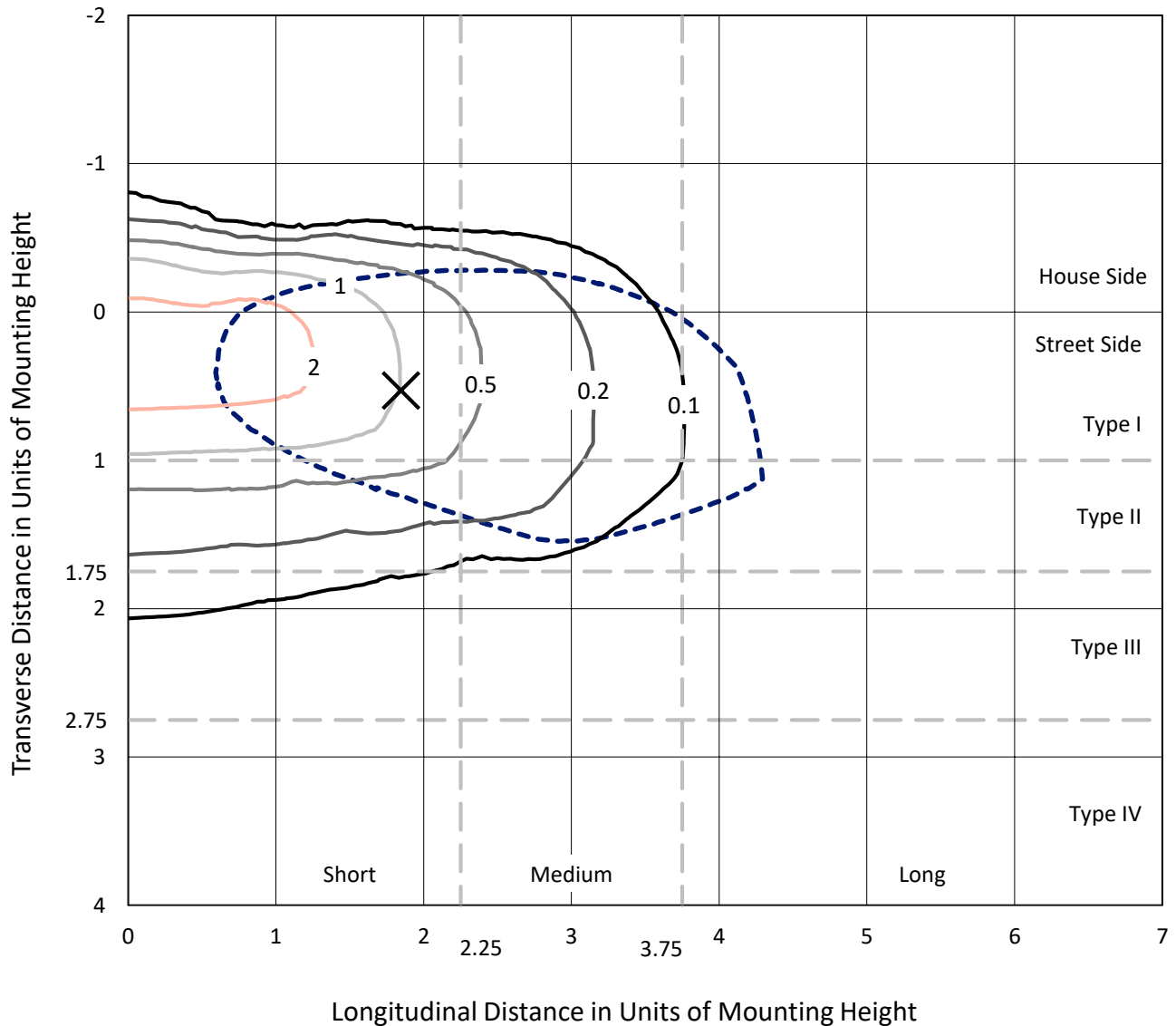
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

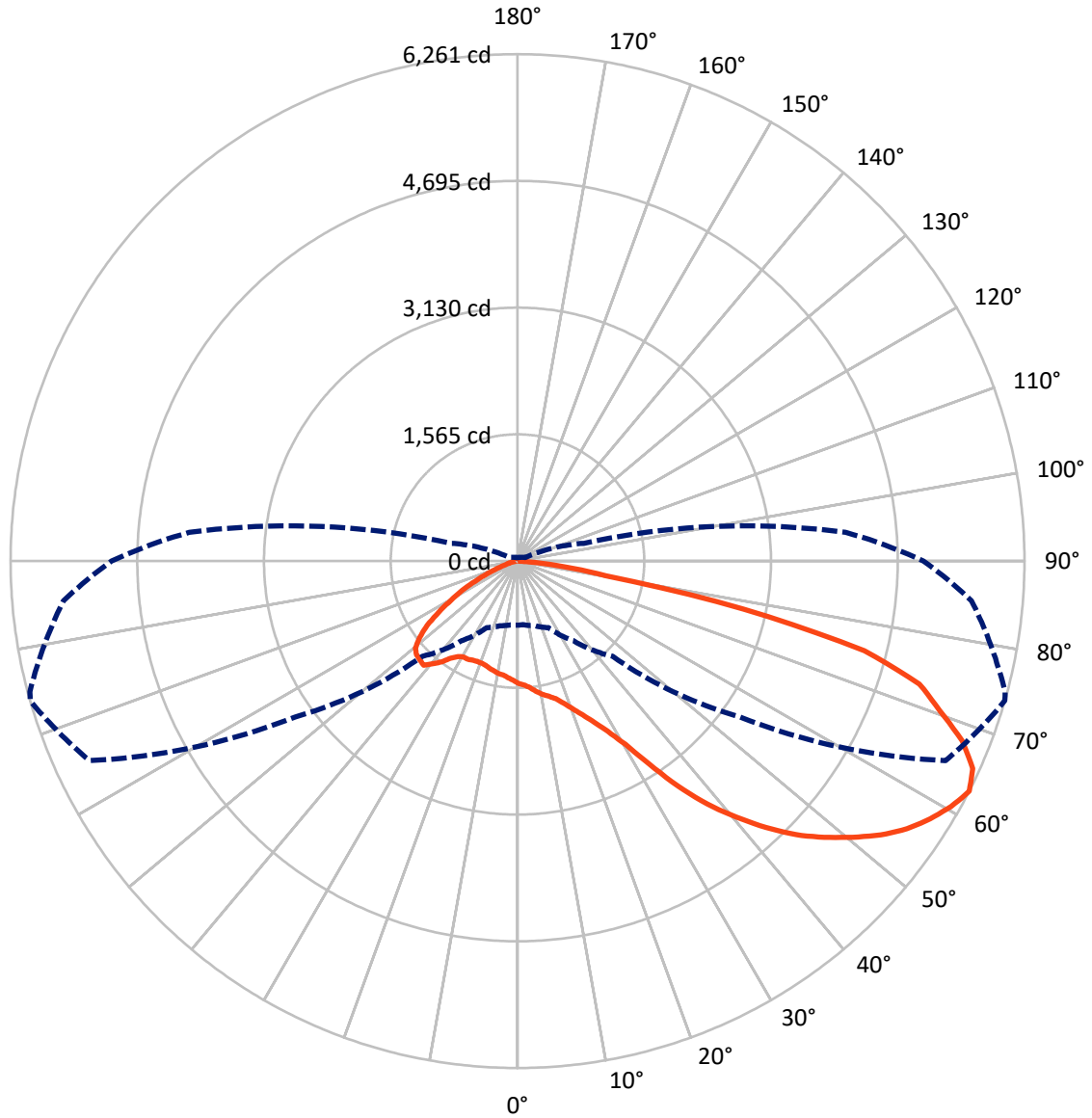
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P509260  
CATALOG NUMBER: VERD-CA2-60-730-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P509260

CATALOG NUMBER: VERD-CA2-60-730-U-T2-HSS

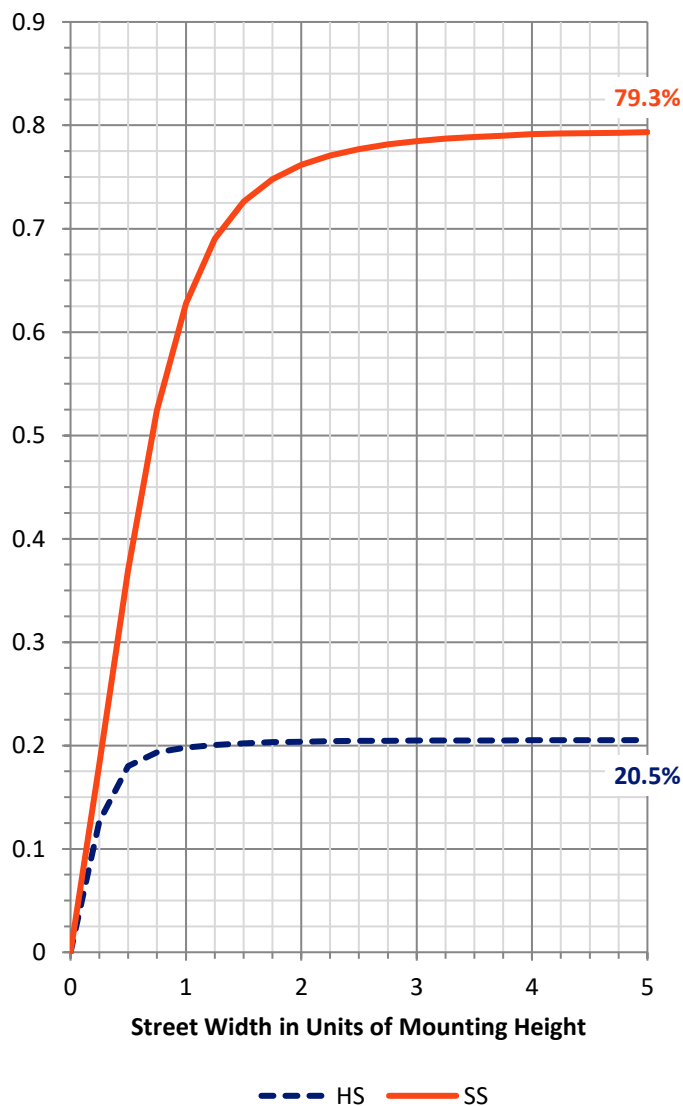
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1710.9	0.0	1710.9
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	6528.1	0.0	6528.1
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8239.0	0.0	8239.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.0	1.7
10°-20°	434.8	5.3
20°-30°	734.2	8.9
30°-40°	1092.0	13.3
40°-50°	1477.9	17.9
50°-60°	1700.3	20.6
60°-70°	1641.3	19.9
70°-80°	929.2	11.3
80°-90°	85.2	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°	8239.0	100.0
0°-180°	8239.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P509260

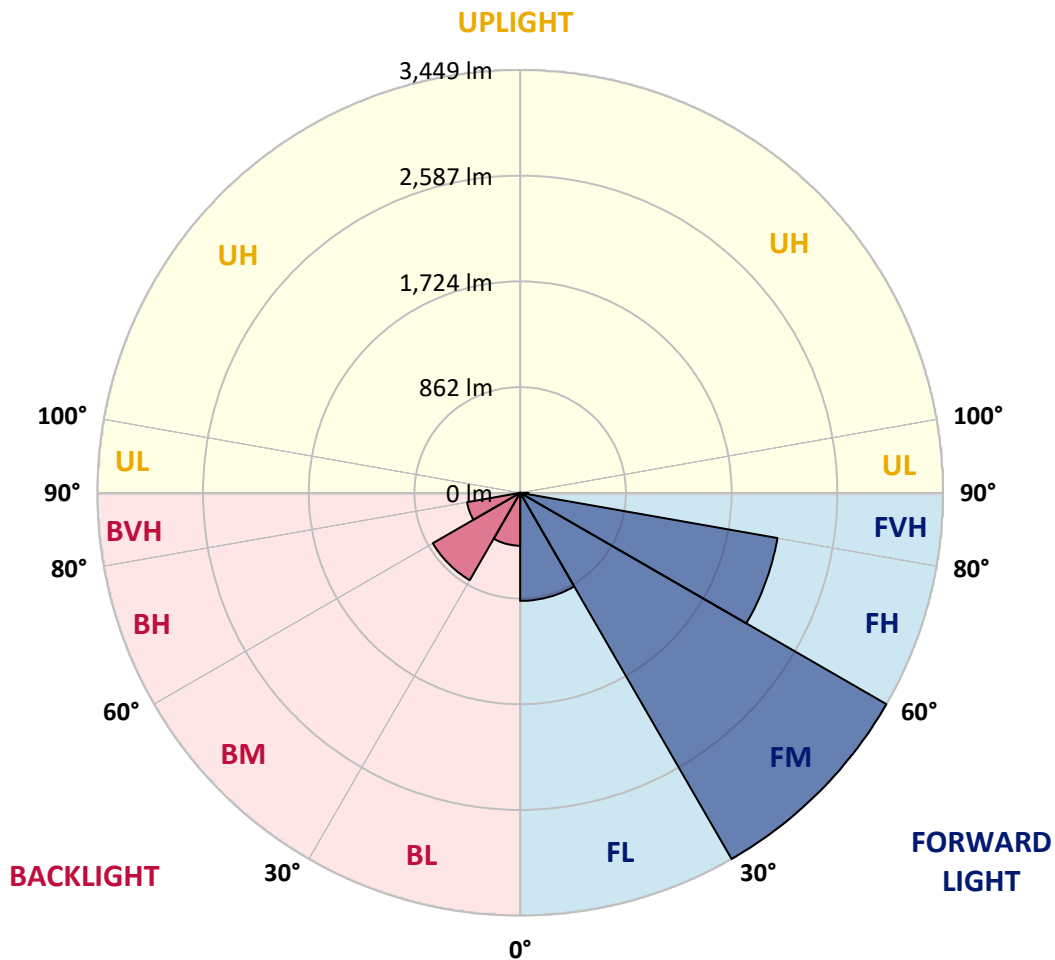
CATALOG NUMBER: VERD-CA2-60-730-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.6	10.7			
FM (30°-60°)	3448.7	41.9			
FH (60°-80°)	2130.7	25.9			G2/5000
FVH (80°-90°)	67.2	0.8			G1/100
BL (0°-30°)	431.4	5.2	B1/500		
BM (30°-60°)	821.6	10.0	B1/1000		
BH (60°-80°)	439.8	5.3	B1/500		G1/500
BVH (80°-90°)	18.1	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





REPORT NUMBER: P509260

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1646.7	1635.9	1627.0	1622.1	1608.4	1596.6	1573.0	1548.5	1531.8	1530.8	1515.1
5°	1715.4	1714.4	1694.8	1690.8	1672.2	1666.3	1642.7	1607.4	1566.1	1561.2	1519.0
7.5°	1805.7	1794.9	1773.3	1764.5	1742.9	1727.2	1695.7	1662.4	1621.1	1616.2	1542.6
10°	1893.1	1887.2	1874.5	1875.4	1845.0	1815.5	1768.4	1711.5	1672.2	1666.3	1576.0
12.5°	1994.2	1975.6	1954.0	1942.2	1911.8	1893.1	1847.9	1773.3	1711.5	1705.6	1615.2
15°	2064.0	2054.1	2034.5	2026.6	1997.2	1966.8	1914.7	1856.8	1763.5	1757.6	1655.5
17.5°	2138.6	2133.7	2111.1	2106.2	2077.7	2041.4	2001.1	1925.5	1844.0	1834.2	1703.6
20°	2188.7	2179.8	2176.9	2175.9	2168.0	2145.5	2094.4	2035.5	1945.2	1927.5	1765.5
22.5°	2255.4	2246.6	2250.5	2254.5	2265.3	2255.4	2222.0	2152.3	2063.0	2047.3	1862.7
25°	2262.3	2256.4	2282.9	2337.9	2359.5	2370.3	2344.8	2290.8	2204.4	2183.8	1978.5
27.5°	2281.0	2272.1	2300.6	2358.5	2455.7	2472.4	2477.3	2451.8	2379.2	2367.4	2135.6
30°	2247.6	2241.7	2285.9	2385.0	2494.0	2588.3	2624.6	2660.0	2626.6	2606.0	2354.6
32.5°	2166.1	2170.0	2227.9	2359.5	2560.8	2706.1	2800.4	2925.1	2985.0	2981.1	2742.5
35°	2047.3	2045.3	2142.5	2328.1	2566.7	2817.1	2992.8	3246.2	3414.1	3402.3	3149.9
37.5°	1946.1	1941.2	2051.2	2248.6	2571.6	2905.5	3218.7	3596.7	3809.8	3798.0	3482.8
40°	1822.4	1830.3	1928.5	2156.3	2530.4	2971.2	3415.1	3937.4	4155.4	4155.4	3827.5
42.5°	1697.7	1704.6	1801.8	2027.6	2470.5	3019.4	3599.7	4277.2	4499.1	4504.0	4064.1
45°	1588.7	1591.7	1680.0	1883.3	2362.5	3027.2	3769.5	4617.9	4821.1	4808.4	4334.1
47.5°	1397.2	1429.7	1568.1	1753.7	2215.2	2992.8	3912.9	4921.3	5098.0	5071.5	4591.4
50°	1113.5	1113.5	1304.9	1630.0	2046.3	2901.5	4025.8	5198.2	5361.2	5336.6	4816.2
52.5°	1023.1	1025.1	1084.0	1456.2	1875.4	2744.4	4090.6	5473.1	5619.4	5602.7	5029.3
55°	975.0	978.0	1005.5	1180.2	1720.3	2503.9	4092.6	5686.2	5838.4	5801.1	5209.0
57.5°	902.4	897.5	955.4	1051.6	1538.6	2193.6	3996.3	5851.2	6008.3	5979.8	5356.3
60°	851.3	843.5	882.7	969.1	1343.2	1872.5	3740.1	5971.0	6153.6	6170.3	5500.6
62.5°	791.4	788.5	825.8	907.3	1198.9	1662.4	3355.2	5831.5	6260.6	6234.1	5628.3
65°	731.5	725.6	761.0	824.8	1059.5	1490.5	2967.3	5625.3	6178.1	6201.7	5653.8
67.5°	653.0	652.0	685.4	732.5	907.3	1298.1	2405.7	5354.3	5922.8	5906.2	5422.1
70°	557.7	557.7	591.1	632.3	758.0	1107.6	1847.0	4889.9	5530.1	5627.3	5025.4
72.5°	450.7	452.7	486.0	533.2	625.5	902.4	1361.9	4252.6	5189.4	5033.2	4465.7
75°	240.6	216.0	381.0	429.1	504.7	719.7	931.8	2765.0	4425.4	4317.4	3704.7
77.5°	57.9	60.9	119.8	222.9	269.0	398.7	458.5	1280.4	2853.4	3025.2	2642.3
80°	38.3	42.2	64.8	158.1	179.7	212.1	181.7	557.7	1106.6	1179.3	1533.7
82.5°	19.6	21.6	40.3	62.8	63.8	55.0	68.7	280.8	585.2	634.3	737.4
85°	6.9	10.8	20.6	27.5	25.5	20.6	16.7	69.7	138.4	154.2	160.1
87.5°	0.0	0.0	2.9	2.9	2.0	2.0	2.9	2.9	3.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P509260

CATALOG NUMBER: VERD-CA2-60-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2	1510.2
2.5°	1502.3	1491.5	1474.8	1457.1	1438.5	1422.8	1413.9	1418.9	1424.7	1406.1	1399.2
5°	1499.4	1480.7	1449.3	1412.0	1383.5	1355.0	1321.6	1313.8	1305.9	1296.1	1285.3
7.5°	1513.1	1485.6	1421.8	1387.4	1327.5	1274.5	1245.1	1223.5	1203.8	1186.1	1175.3
10°	1538.6	1487.6	1415.9	1346.2	1280.4	1215.6	1151.8	1139.0	1135.1	1109.6	1090.9
12.5°	1555.3	1492.5	1395.3	1310.8	1216.6	1146.9	1083.0	1046.7	1043.8	1032.0	1019.2
15°	1581.8	1512.1	1381.5	1266.7	1151.8	1078.1	1019.2	972.1	948.5	947.5	937.7
17.5°	1630.0	1534.7	1359.9	1221.5	1099.7	1017.3	932.8	915.1	875.9	853.3	847.4
20°	1679.1	1568.1	1354.0	1176.3	1032.0	929.9	865.1	816.0	784.5	761.0	746.2
22.5°	1742.9	1616.2	1356.0	1149.8	977.0	864.1	779.6	707.0	649.0	620.6	606.8
25°	1835.2	1672.2	1370.7	1109.6	912.2	793.4	670.6	574.4	492.9	472.3	462.5
27.5°	1953.0	1750.7	1391.4	1068.3	852.3	698.1	539.1	431.1	363.3	347.6	337.8
30°	2133.7	1868.6	1394.3	1042.8	798.3	574.4	403.6	319.1	266.1	249.4	251.4
32.5°	2473.4	2120.9	1433.6	989.8	702.1	440.9	296.5	232.7	192.5	186.6	196.4
35°	2868.1	2418.4	1509.2	962.3	592.1	319.1	212.1	170.9	145.3	153.2	157.1
37.5°	3122.5	2680.6	1630.0	899.4	463.5	234.7	148.3	133.5	128.6	133.5	142.4
40°	3419.0	2893.7	1733.1	835.6	328.9	161.0	118.8	121.8	115.9	114.9	118.8
42.5°	3659.6	3112.6	1843.0	730.5	228.8	119.8	109.0	111.0	107.0	102.1	102.1
45°	3888.3	3302.1	1842.1	589.1	151.2	106.0	100.2	104.1	103.1	96.2	95.2
47.5°	4088.6	3493.6	1843.0	428.1	114.9	97.2	93.3	97.2	97.2	91.3	90.3
50°	4337.1	3652.7	1813.6	274.0	105.1	90.3	89.4	88.4	92.3	84.4	82.5
52.5°	4489.3	3768.5	1681.0	184.6	97.2	85.4	83.5	81.5	83.5	76.6	76.6
55°	4656.2	3912.9	1508.2	146.3	92.3	79.5	78.6	76.6	76.6	68.7	69.7
57.5°	4837.8	4030.7	1275.5	128.6	88.4	75.6	73.6	70.7	66.8	60.9	59.9
60°	4969.4	4055.3	1043.8	116.8	85.4	73.6	65.8	61.9	55.0	51.1	50.1
62.5°	5013.6	4068.0	846.4	105.1	80.5	67.8	58.9	52.0	44.2	41.2	41.2
65°	4977.3	3920.7	634.3	95.2	74.6	62.8	52.0	42.2	34.4	31.4	30.4
67.5°	4743.6	3649.7	461.5	85.4	65.8	57.0	45.2	34.4	27.5	24.5	24.5
70°	4318.4	3330.6	312.2	71.7	57.0	50.1	42.2	27.5	22.6	19.6	18.7
72.5°	3855.0	2824.0	199.3	57.9	44.2	39.3	30.4	23.6	18.7	14.7	14.7
75°	3048.8	2218.1	138.4	42.2	31.4	29.5	23.6	19.6	15.7	11.8	11.8
77.5°	2121.9	1441.4	109.0	32.4	21.6	19.6	17.7	14.7	12.8	9.8	8.8
80°	1230.3	867.0	65.8	21.6	14.7	12.8	11.8	11.8	9.8	6.9	6.9
82.5°	610.7	361.3	28.5	13.7	9.8	8.8	7.9	6.9	6.9	4.9	4.9
85°	119.8	61.9	10.8	6.9	4.9	4.9	3.9	3.9	2.9	2.0	2.0
87.5°	3.9	2.9	2.9	2.9	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)