

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: P509300

Luminaire Tested: **VERD-CA2-70-727-U-T2-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509300  
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-CA2-70-727-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 980mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8102 lumens  
Efficiency: N/A  
Efficacy: 110.1 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

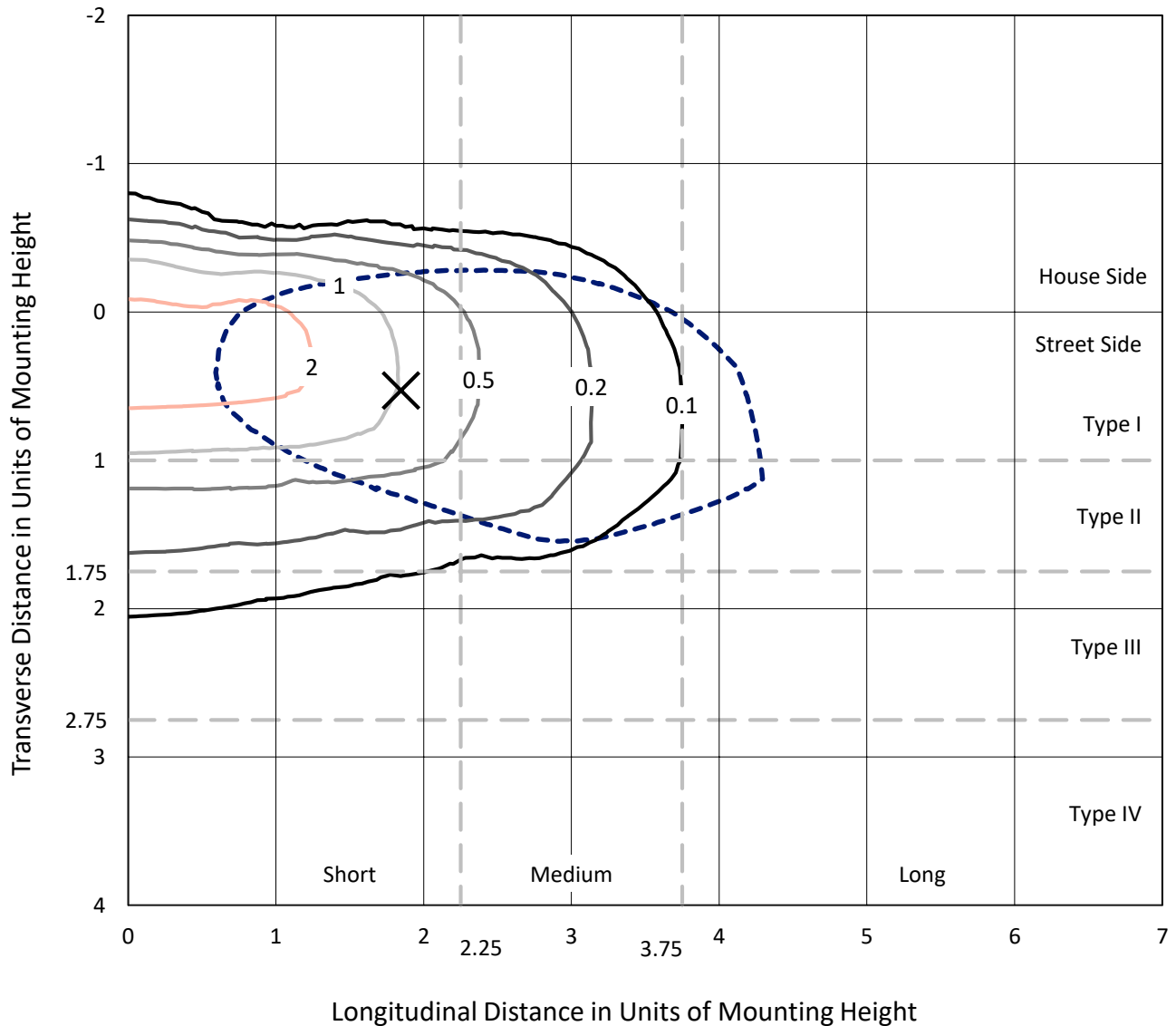
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

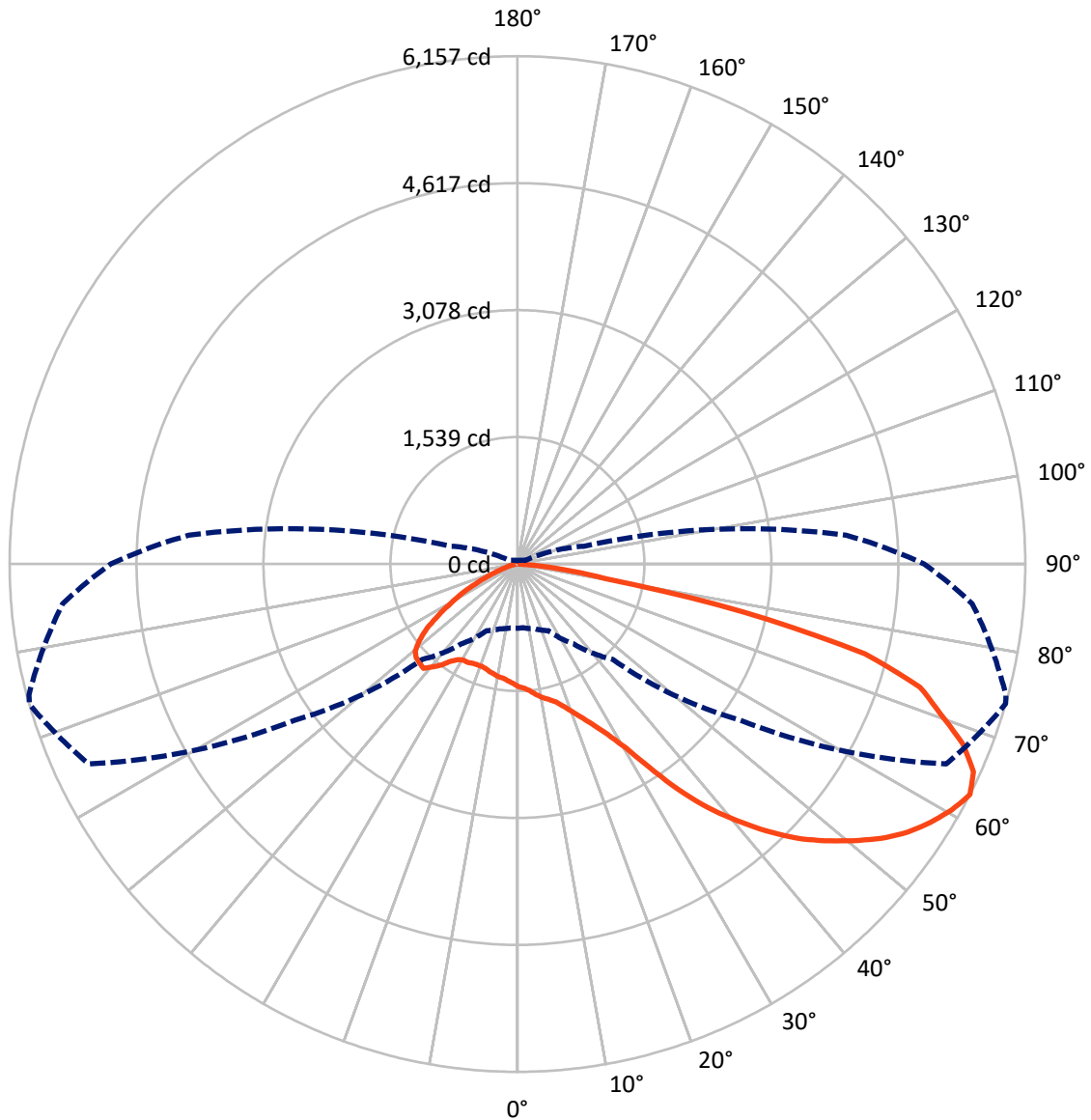
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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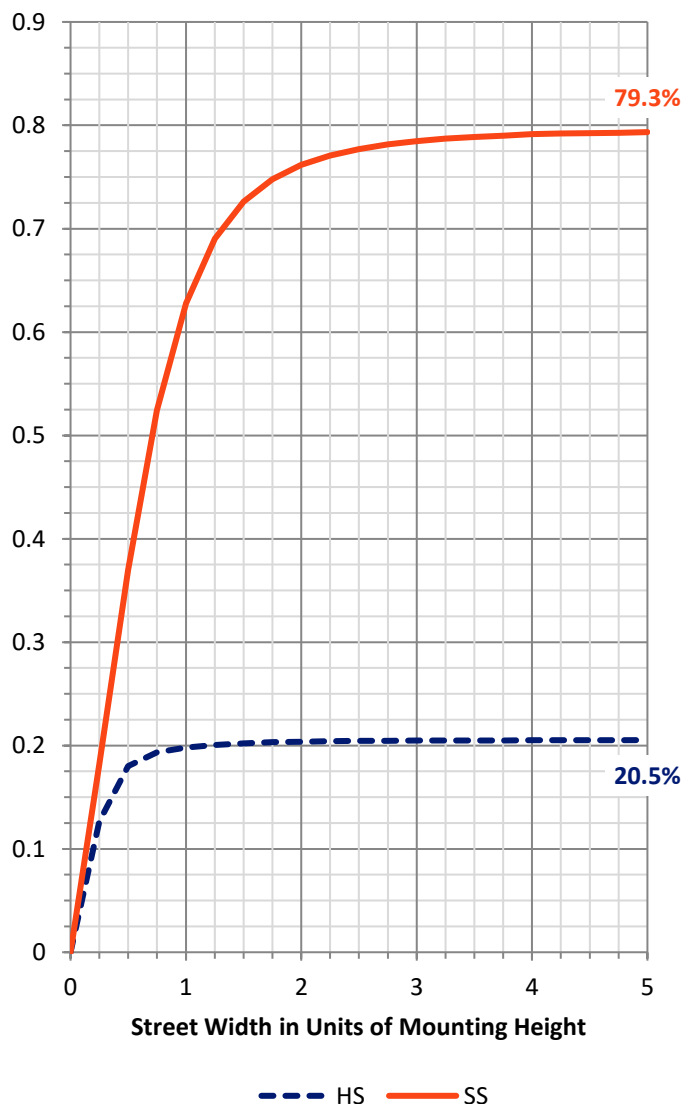
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1682.4	0.0	1682.4
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	6419.6	0.0	6419.6
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	8102.0	0.0	8102.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.6	1.7
10°-20°	427.6	5.3
20°-30°	721.9	8.9
30°-40°	1073.8	13.3
40°-50°	1453.4	17.9
50°-60°	1672.1	20.6
60°-70°	1614.0	19.9
70°-80°	913.8	11.3
80°-90°	83.8	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°	8102.0	100.0
0°-180°	8102.0	100.0

**Coefficient of Utilization**



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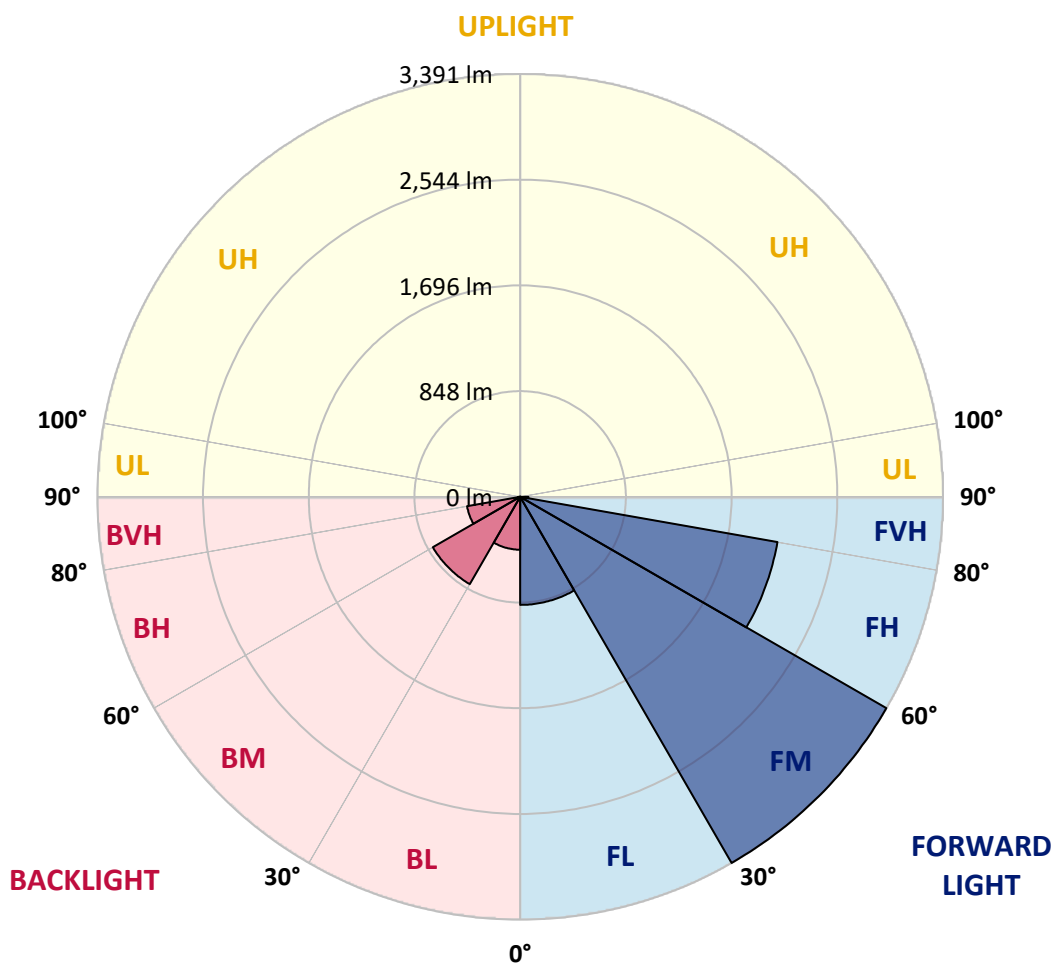
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.9	10.7			
FM (30°-60°)	3391.3	41.9			
FH (60°-80°)	2095.3	25.9			G2/5000
FVH (80°-90°)	66.1	0.8			G1/100
BL (0°-30°)	424.2	5.2	B1/500		
BM (30°-60°)	807.9	10.0	B1/1000		
BH (60°-80°)	432.5	5.3	B1/500		G1/500
BVH (80°-90°)	17.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1
2.5°	1619.3	1608.7	1600.0	1595.1	1581.6	1570.0	1546.9	1522.7	1506.3	1505.3	1489.9
5°	1686.9	1685.9	1666.6	1662.7	1644.4	1638.6	1615.4	1580.6	1540.1	1535.3	1493.7
7.5°	1775.7	1765.1	1743.8	1735.1	1713.9	1698.4	1667.6	1634.7	1594.2	1589.3	1516.9
10°	1861.6	1855.8	1843.3	1844.3	1814.3	1785.4	1739.0	1683.0	1644.4	1638.6	1549.7
12.5°	1961.1	1942.7	1921.5	1909.9	1880.0	1861.6	1817.2	1743.8	1683.0	1677.2	1588.4
15°	2029.6	2020.0	2000.7	1992.9	1964.0	1934.0	1882.9	1825.9	1734.2	1728.4	1628.0
17.5°	2103.0	2098.2	2076.0	2071.2	2043.2	2007.4	1967.8	1893.5	1813.4	1803.7	1675.3
20°	2152.3	2143.6	2140.7	2139.7	2132.0	2109.8	2059.6	2001.6	1912.8	1895.4	1736.1
22.5°	2217.9	2209.2	2213.1	2217.0	2227.6	2217.9	2185.1	2116.5	2028.7	2013.2	1831.7
25°	2224.7	2218.9	2245.0	2299.0	2320.3	2330.9	2305.8	2252.7	2167.7	2147.4	1945.6
27.5°	2243.0	2234.3	2262.3	2319.3	2414.9	2431.3	2436.1	2411.0	2339.6	2328.0	2100.1
30°	2210.2	2204.4	2247.9	2345.4	2452.6	2545.3	2581.0	2615.7	2582.9	2562.6	2315.5
32.5°	2130.1	2133.9	2190.9	2320.3	2518.2	2661.1	2753.8	2876.5	2935.4	2931.5	2696.9
35°	2013.2	2011.3	2106.9	2289.4	2524.0	2770.2	2943.1	3192.2	3357.3	3345.7	3097.6
37.5°	1913.8	1908.9	2017.1	2211.2	2528.8	2857.1	3165.2	3536.9	3746.4	3734.8	3424.9
40°	1792.1	1799.8	1896.4	2120.4	2488.3	2921.8	3358.3	3872.0	4086.3	4086.3	3763.8
42.5°	1669.5	1676.2	1771.8	1993.9	2429.4	2969.1	3539.8	4206.1	4424.3	4429.1	3996.5
45°	1562.3	1565.2	1652.1	1852.0	2323.2	2976.9	3706.8	4541.1	4741.0	4728.4	4262.1
47.5°	1374.0	1405.9	1542.0	1724.5	2178.3	2943.1	3847.8	4839.5	5013.3	4987.2	4515.0
50°	1095.0	1095.0	1283.3	1602.9	2012.3	2853.3	3958.9	5111.8	5272.0	5247.9	4736.2
52.5°	1006.1	1008.1	1066.0	1431.9	1844.3	2698.8	4022.6	5382.1	5526.0	5509.6	4945.7
55°	958.8	961.7	988.8	1160.6	1691.7	2462.2	4024.5	5591.7	5741.3	5704.6	5122.4
57.5°	887.4	882.5	939.5	1034.1	1513.1	2157.1	3929.9	5753.9	5908.4	5880.4	5267.2
60°	837.2	829.4	868.1	953.0	1320.9	1841.4	3677.9	5871.7	6051.3	6067.7	5409.2
62.5°	778.3	775.4	812.0	892.2	1179.0	1634.7	3299.4	5734.6	6156.5	6130.4	5534.7
65°	719.4	713.6	748.3	811.1	1041.9	1465.7	2918.0	5531.8	6075.4	6098.6	5559.8
67.5°	642.1	641.1	674.0	720.3	892.2	1276.5	2365.7	5265.3	5824.4	5807.9	5331.9
70°	548.4	548.4	581.3	621.8	745.4	1089.2	1816.2	4808.6	5438.1	5533.7	4941.8
72.5°	443.2	445.1	478.0	524.3	615.1	887.4	1339.3	4181.9	5103.1	4949.5	4391.4
75°	236.6	212.4	374.6	422.0	496.3	707.8	916.3	2719.1	4351.9	4245.6	3643.1
77.5°	57.0	59.9	117.8	219.2	264.6	392.0	450.9	1259.1	2806.0	2974.9	2598.4
80°	37.7	41.5	63.7	155.5	176.7	208.6	178.6	548.4	1088.2	1159.7	1508.2
82.5°	19.3	21.2	39.6	61.8	62.8	54.1	67.6	276.2	575.5	623.8	725.1
85°	6.8	10.6	20.3	27.0	25.1	20.3	16.4	68.6	136.1	151.6	157.4
87.5°	0.0	0.0	2.9	2.9	1.9	1.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1	1485.1
2.5°	1477.3	1466.7	1450.3	1432.9	1414.6	1399.1	1390.4	1395.3	1401.1	1382.7	1375.9
5°	1474.4	1456.1	1425.2	1388.5	1360.5	1332.5	1299.7	1291.9	1284.2	1274.6	1263.9
7.5°	1488.0	1460.9	1398.2	1364.4	1305.5	1253.3	1224.4	1203.1	1183.8	1166.4	1155.8
10°	1513.1	1462.8	1392.4	1323.8	1259.1	1195.4	1132.6	1120.1	1116.2	1091.1	1072.8
12.5°	1529.5	1467.7	1372.1	1289.0	1196.3	1127.8	1065.0	1029.3	1026.4	1014.8	1002.3
15°	1555.5	1487.0	1358.6	1245.6	1132.6	1060.2	1002.3	955.9	932.7	931.8	922.1
17.5°	1602.9	1509.2	1337.3	1201.2	1081.4	1000.3	917.3	899.9	861.3	839.1	833.3
20°	1651.1	1542.0	1331.5	1156.8	1014.8	914.4	850.7	802.4	771.5	748.3	733.8
22.5°	1713.9	1589.3	1333.5	1130.7	960.7	849.7	766.7	695.2	638.2	610.2	596.7
25°	1804.7	1644.4	1347.9	1091.1	897.0	780.2	659.5	564.9	484.7	464.4	454.8
27.5°	1920.5	1721.6	1368.2	1050.5	838.1	686.5	530.1	423.9	357.3	341.8	332.2
30°	2098.2	1837.5	1371.1	1025.4	785.0	564.9	396.9	313.8	261.7	245.3	247.2
32.5°	2432.3	2085.6	1409.7	973.3	690.4	433.5	291.6	228.8	189.3	183.5	193.1
35°	2820.4	2378.2	1484.1	946.3	582.2	313.8	208.6	168.0	142.9	150.6	154.5
37.5°	3070.5	2636.0	1602.9	884.5	455.8	230.8	145.8	131.3	126.5	131.3	140.0
40°	3362.1	2845.6	1704.2	821.7	323.5	158.4	116.8	119.7	113.9	113.0	116.8
42.5°	3598.7	3060.9	1812.4	718.4	225.0	117.8	107.2	109.1	105.2	100.4	100.4
45°	3823.7	3247.2	1811.4	579.3	148.7	104.3	98.5	102.4	101.4	94.6	93.7
47.5°	4020.7	3435.5	1812.4	421.0	113.0	95.6	91.7	95.6	95.6	89.8	88.8
50°	4265.0	3591.9	1783.4	269.4	103.3	88.8	87.9	86.9	90.8	83.0	81.1
52.5°	4414.6	3705.9	1653.1	181.5	95.6	84.0	82.1	80.1	82.1	75.3	75.3
55°	4578.8	3847.8	1483.1	143.9	90.8	78.2	77.2	75.3	75.3	67.6	68.6
57.5°	4757.4	3963.7	1254.3	126.5	86.9	74.3	72.4	69.5	65.7	59.9	58.9
60°	4886.8	3987.8	1026.4	114.9	84.0	72.4	64.7	60.8	54.1	50.2	49.2
62.5°	4930.2	4000.4	832.3	103.3	79.2	66.6	57.9	51.2	43.5	40.6	40.6
65°	4894.5	3855.5	623.8	93.7	73.4	61.8	51.2	41.5	33.8	30.9	29.9
67.5°	4664.7	3589.0	453.8	84.0	64.7	56.0	44.4	33.8	27.0	24.1	24.1
70°	4246.6	3275.2	307.1	70.5	56.0	49.2	41.5	27.0	22.2	19.3	18.3
72.5°	3790.9	2777.0	196.0	57.0	43.5	38.6	29.9	23.2	18.3	14.5	14.5
75°	2998.1	2181.2	136.1	41.5	30.9	29.0	23.2	19.3	15.4	11.6	11.6
77.5°	2086.6	1417.5	107.2	31.9	21.2	19.3	17.4	14.5	12.6	9.7	8.7
80°	1209.9	852.6	64.7	21.2	14.5	12.6	11.6	11.6	9.7	6.8	6.8
82.5°	600.6	355.3	28.0	13.5	9.7	8.7	7.7	6.8	6.8	4.8	4.8
85°	117.8	60.8	10.6	6.8	4.8	4.8	3.9	3.9	2.9	1.9	1.9
87.5°	3.9	2.9	2.9	2.9	1.9	1.9	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)