

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: P509334

Luminaire Tested: **VERD-CA2-70-760-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-70-760-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 980mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9820 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

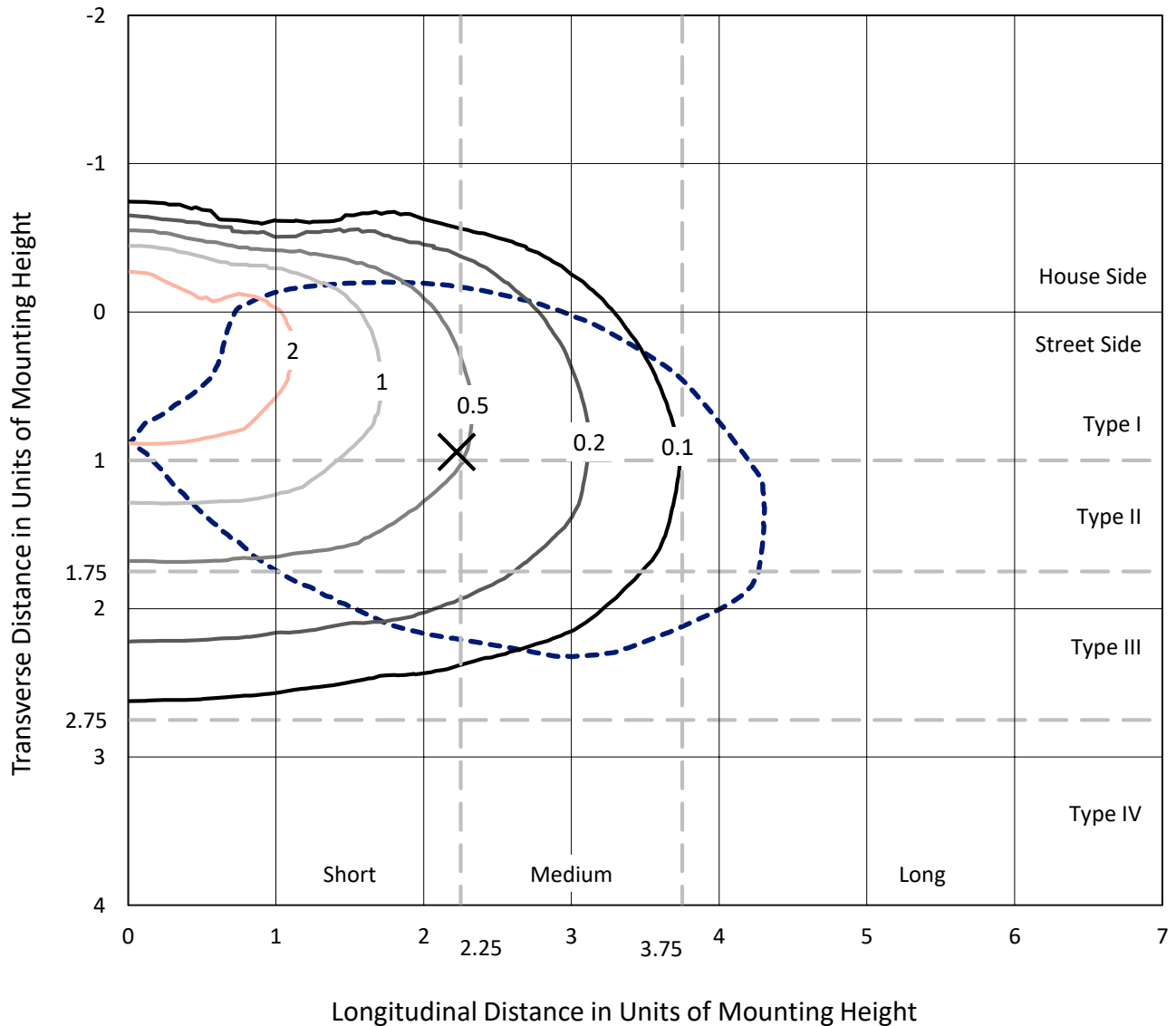
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

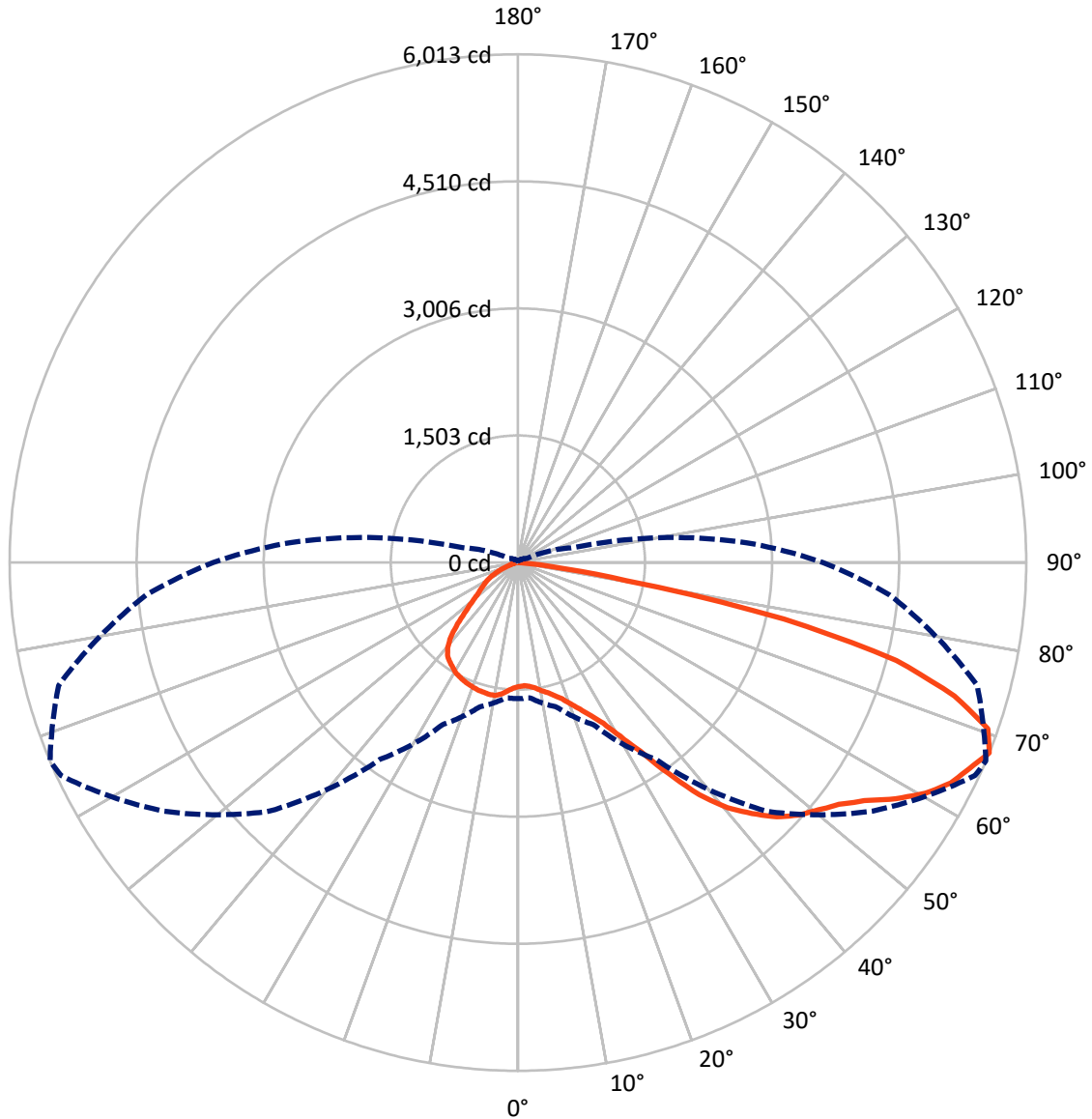
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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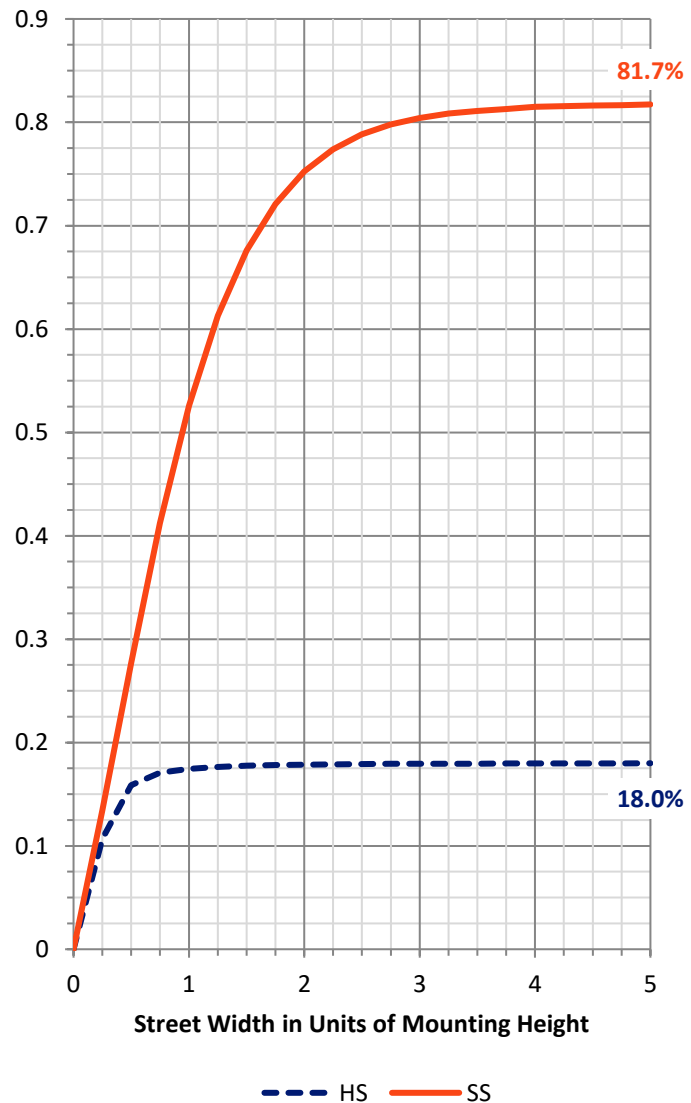
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1789.3	0.0	1789.3
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	8030.7	0.0	8030.7
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	9820.0	0.0	9820.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	1.5
10°-20°	460.1	4.7
20°-30°	785.1	8.0
30°-40°	1221.9	12.4
40°-50°	1725.0	17.6
50°-60°	2077.6	21.2
60°-70°	2147.0	21.9
70°-80°	1182.8	12.0
80°-90°	73.7	0.8
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°	9820.0	100.0
0°-180°	9820.0	100.0



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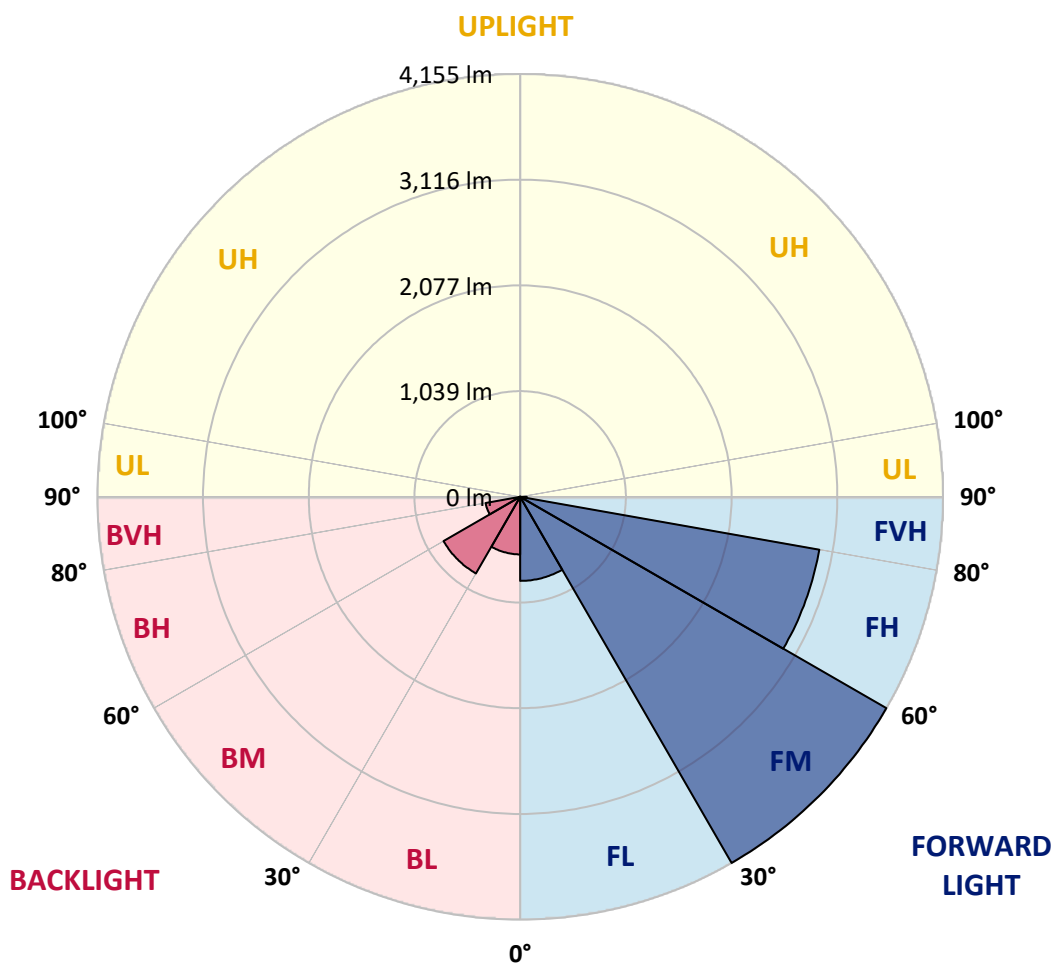
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.3	8.4			
FM (30°-60°)	4154.7	42.3			
FH (60°-80°)	2984.9	30.4			G2/5000
FVH (80°-90°)	64.8	0.7			G1/100
BL (0°-30°)	565.7	5.8	B2/1000		
BM (30°-60°)	869.8	8.9	B1/1000		
BH (60°-80°)	344.9	3.5	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
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°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1452.6	1467.4	1467.4	1462.8	1465.1	1454.9	1448.1	1456.0	1458.3	1465.1	1474.2
5°	1481.0	1498.1	1496.9	1489.0	1482.2	1473.1	1464.0	1470.8	1471.9	1474.2	1485.6
7.5°	1541.3	1557.2	1550.3	1542.4	1539.0	1518.5	1499.2	1498.1	1500.3	1507.2	1519.7
10°	1619.7	1632.2	1629.9	1617.4	1608.3	1577.6	1550.3	1540.1	1541.3	1543.5	1565.1
12.5°	1708.3	1725.4	1712.9	1695.8	1679.9	1635.6	1598.1	1583.3	1581.0	1586.7	1604.9
15°	1795.9	1814.0	1804.9	1794.7	1758.3	1709.5	1661.7	1637.9	1635.6	1635.6	1647.0
17.5°	1910.7	1917.5	1911.8	1897.0	1856.1	1794.7	1737.9	1702.7	1697.0	1700.4	1702.7
20°	2038.0	2050.5	2043.6	2027.7	1968.6	1902.7	1831.1	1789.0	1785.6	1789.0	1767.4
22.5°	2192.5	2197.1	2193.7	2167.5	2114.1	2026.6	1932.3	1884.5	1884.5	1887.9	1843.6
25°	2324.4	2351.7	2343.7	2311.9	2249.4	2173.2	2059.6	2000.4	2003.9	2006.1	1944.8
27.5°	2477.8	2500.6	2494.9	2471.0	2430.1	2333.5	2197.1	2158.4	2155.0	2151.6	2056.1
30°	2624.5	2641.5	2652.9	2647.2	2614.2	2523.3	2401.7	2373.3	2382.4	2375.5	2210.7
32.5°	2743.8	2773.3	2805.2	2812.0	2802.9	2722.2	2633.5	2648.3	2659.7	2740.4	2641.5
35°	2846.1	2877.9	2930.2	2984.8	2995.0	2963.2	2918.8	3026.8	3059.8	3224.6	3120.0
37.5°	2952.9	2980.2	3032.5	3118.9	3175.7	3192.8	3236.0	3406.4	3486.0	3628.1	3433.7
40°	3001.8	3029.1	3120.0	3229.1	3347.3	3442.8	3529.2	3727.0	3815.6	3858.8	3606.5
42.5°	2952.9	2979.1	3125.7	3331.4	3491.7	3703.1	3800.9	3998.6	4057.7	4053.2	3819.0
45°	2905.2	2930.2	3083.6	3357.6	3622.4	3942.9	4025.9	4247.5	4290.7	4236.2	3941.8
47.5°	2843.8	2877.9	3037.0	3341.7	3739.5	4160.0	4236.2	4424.9	4463.5	4382.8	4082.7
50°	2768.8	2798.4	2983.6	3316.7	3816.8	4322.6	4403.3	4590.8	4601.0	4526.0	4210.0
52.5°	2682.4	2698.3	2899.5	3266.6	3883.8	4441.9	4534.0	4730.6	4754.5	4734.0	4361.2
55°	2554.0	2582.4	2798.4	3188.2	3888.4	4504.4	4635.1	4928.4	4971.6	4923.8	4453.3
57.5°	2418.7	2449.4	2673.3	3079.1	3821.3	4544.2	4819.3	5185.3	5270.5	5117.1	4528.3
60°	2269.8	2297.1	2517.6	2917.7	3702.0	4601.0	5009.1	5486.5	5539.9	5281.9	4578.3
62.5°	2097.1	2118.7	2328.9	2722.2	3519.0	4586.3	5172.7	5728.6	5745.6	5429.6	4573.8
65°	1886.8	1885.6	2081.1	2449.4	3218.9	4468.0	5202.3	5850.2	5870.6	5525.1	4532.8
67.5°	1609.5	1606.0	1769.7	2116.4	2840.4	4160.0	5123.9	5963.8	6012.7	5625.1	4413.5
70°	1261.6	1266.2	1390.1	1699.2	2305.1	3690.6	4917.0	5887.7	5897.9	5433.0	4104.3
72.5°	892.2	890.0	974.1	1183.2	1703.8	2881.3	4321.4	5368.2	5400.1	4957.9	3575.8
75°	409.2	426.2	636.5	722.9	1028.6	1961.8	3555.3	4561.2	4622.6	4268.0	2788.1
77.5°	76.2	78.4	136.4	275.1	402.4	708.1	2124.3	3089.3	3217.8	2908.6	1570.8
80°	60.2	61.4	80.7	131.8	168.2	318.3	699.0	1273.0	1301.4	1134.3	566.0
82.5°	44.3	45.5	60.2	85.2	78.4	137.5	291.0	370.5	393.3	366.0	225.1
85°	26.1	27.3	35.2	42.1	40.9	54.6	48.9	44.3	39.8	33.0	28.4
87.5°	6.8	9.1	14.8	14.8	11.4	10.2	9.1	8.0	9.1	8.0	8.0
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°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1476.5	1475.3	1478.7	1487.8	1495.8	1496.9	1508.3	1523.1	1516.2	1535.6	1528.8
5°	1492.4	1495.8	1508.3	1523.1	1536.7	1548.1	1565.1	1590.1	1582.2	1600.4	1593.5
7.5°	1528.8	1534.4	1553.8	1568.5	1584.4	1581.0	1595.8	1610.6	1592.4	1611.7	1602.6
10°	1571.9	1578.8	1590.1	1595.8	1591.3	1589.0	1585.6	1583.3	1559.4	1573.1	1567.4
12.5°	1610.6	1611.7	1608.3	1593.5	1583.3	1556.0	1543.5	1537.8	1501.5	1511.7	1504.9
15°	1648.1	1632.2	1615.1	1581.0	1552.6	1510.6	1483.3	1459.4	1425.3	1439.0	1425.3
17.5°	1689.0	1665.1	1620.8	1570.8	1512.8	1451.5	1407.1	1368.5	1317.3	1315.1	1310.5
20°	1741.3	1706.1	1634.5	1552.6	1469.6	1377.6	1307.1	1242.3	1165.0	1154.8	1134.3
22.5°	1807.2	1754.9	1654.9	1528.8	1416.2	1300.3	1180.9	1074.1	976.4	945.7	934.3
25°	1883.4	1818.6	1666.3	1507.2	1365.1	1187.8	1025.2	886.6	771.8	738.8	729.7
27.5°	1978.9	1899.3	1683.3	1475.3	1283.2	1050.2	838.8	685.4	583.1	529.7	521.7
30°	2110.7	1989.1	1707.2	1443.5	1184.4	888.8	650.1	471.7	375.1	343.3	337.6
32.5°	2469.9	2202.8	1733.3	1386.7	1053.6	709.2	431.9	301.2	236.4	210.3	208.0
35°	2925.7	2593.8	1828.8	1321.9	895.7	492.2	268.2	179.6	144.4	134.1	134.1
37.5°	3220.0	2897.2	1987.9	1231.0	687.7	301.2	161.4	117.1	110.3	109.1	109.1
40°	3374.6	3031.4	2102.7	1105.9	460.3	175.0	113.7	101.2	98.9	96.6	96.6
42.5°	3571.3	3146.2	2201.6	936.6	267.1	122.8	100.0	92.1	88.7	86.4	86.4
45°	3680.4	3271.2	2139.1	735.4	152.3	110.3	92.1	83.0	79.6	79.6	79.6
47.5°	3787.2	3390.5	2059.6	528.5	129.6	101.2	86.4	77.3	73.9	76.2	76.2
50°	3908.8	3471.2	1933.4	395.5	122.8	94.3	78.4	70.5	68.2	71.6	71.6
52.5°	4022.5	3479.2	1731.1	316.0	113.7	87.5	72.7	64.8	62.5	64.8	64.8
55°	4055.5	3454.2	1673.1	251.2	108.0	80.7	68.2	60.2	54.6	54.6	53.4
57.5°	4047.5	3405.3	1532.2	212.5	101.2	73.9	62.5	53.4	46.6	44.3	44.3
60°	4020.2	3337.1	1383.3	185.3	94.3	68.2	55.7	45.5	38.6	36.4	36.4
62.5°	3986.1	3208.7	1173.0	161.4	87.5	65.9	46.6	37.5	33.0	30.7	30.7
65°	3842.9	3008.6	938.8	137.5	80.7	58.0	40.9	33.0	28.4	26.1	26.1
67.5°	3605.4	2704.0	678.6	117.1	75.0	48.9	36.4	28.4	23.9	22.7	21.6
70°	3250.7	2283.5	420.5	101.2	64.8	44.3	31.8	25.0	21.6	18.2	18.2
72.5°	2709.7	1787.9	220.5	79.6	51.1	37.5	28.4	22.7	18.2	15.9	14.8
75°	1905.0	1102.5	159.1	61.4	35.2	30.7	23.9	19.3	15.9	13.6	12.5
77.5°	919.5	379.6	111.4	45.5	25.0	22.7	18.2	15.9	12.5	11.4	11.4
80°	336.4	216.0	79.6	33.0	20.5	18.2	13.6	12.5	10.2	9.1	9.1
82.5°	151.2	102.3	45.5	21.6	14.8	13.6	10.2	8.0	8.0	8.0	8.0
85°	25.0	21.6	14.8	10.2	8.0	6.8	6.8	5.7	5.7	5.7	5.7
87.5°	6.8	6.8	5.7	5.7	4.5	3.4	2.3	2.3	2.3	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

(END OF REPORT)