

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: P233484

Luminaire Tested: **VERD-C01H-D-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C01H-D-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1210mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8898 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 73  
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: 28.75 FT

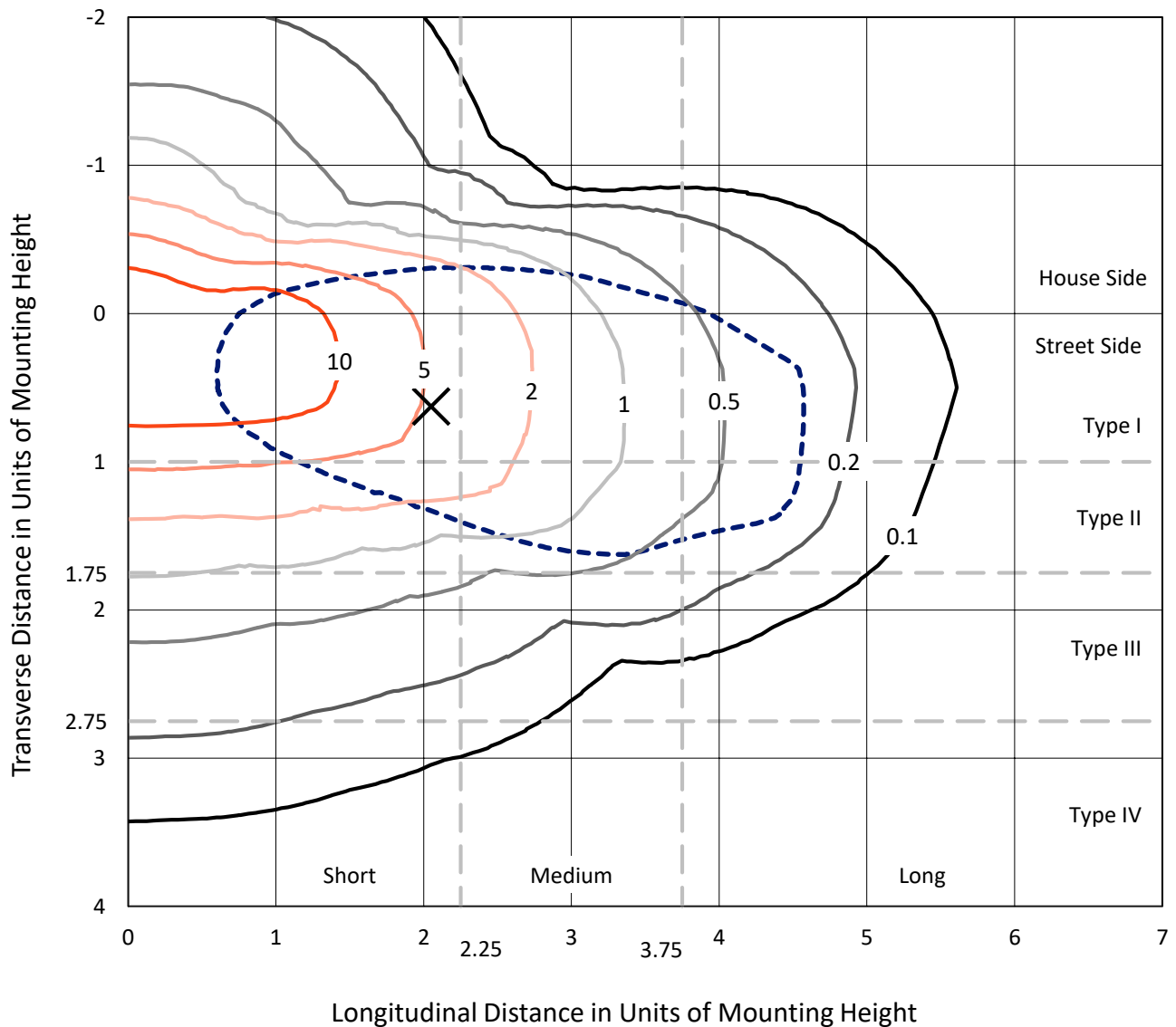


REPORT NUMBER: P233484

CATALOG NUMBER: VERD-C01H-D-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

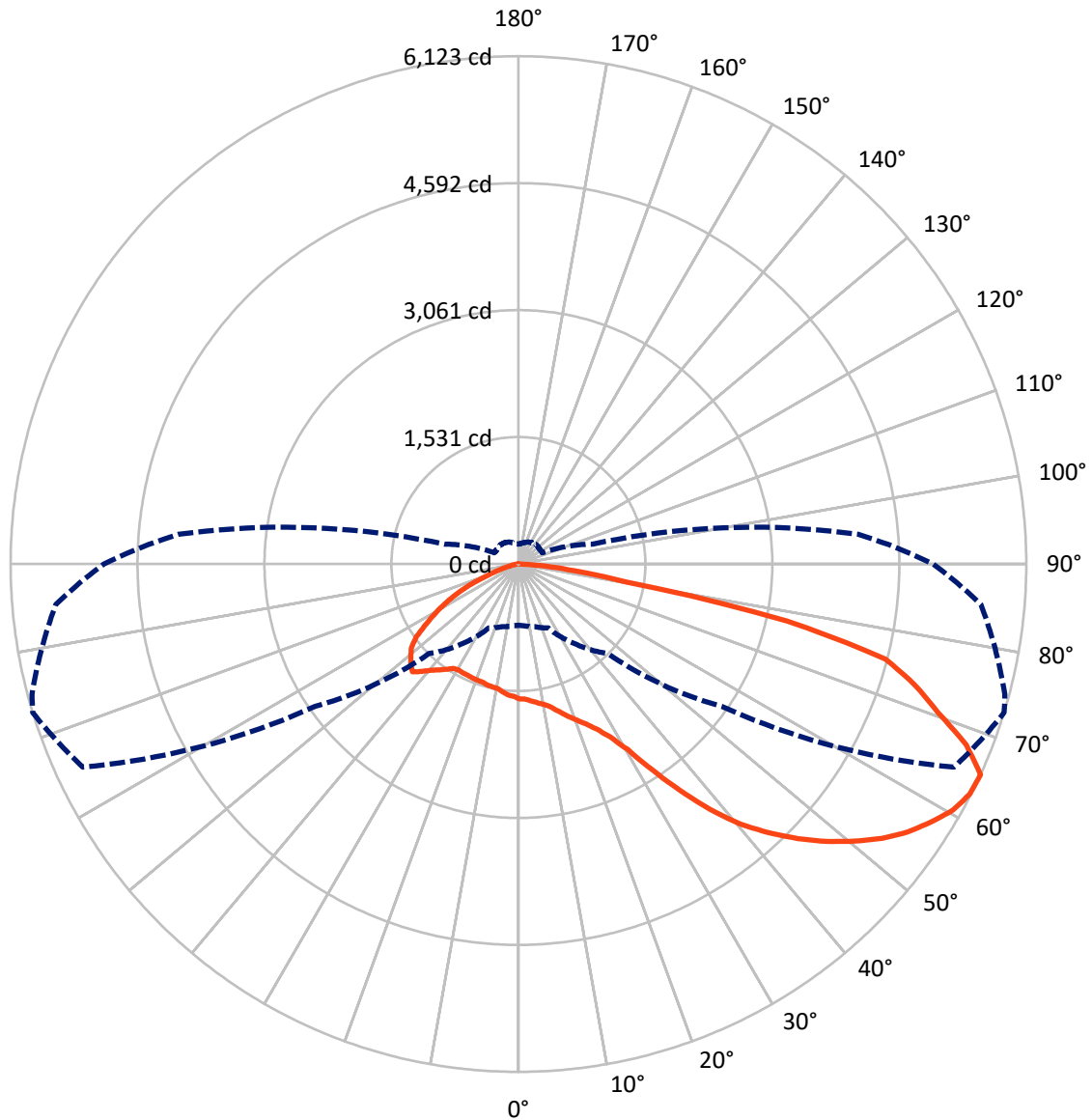


Based on 10 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233484

CATALOG NUMBER: VERD-C01H-D-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P233484

CATALOG NUMBER: VERD-C01H-D-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2281.0	0.0	2281.0
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	6617.0	0.0	6617.0
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	8898.0	0.0	8898.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.2	1.7
10°-20°	469.4	5.3
20°-30°	787.4	8.8
30°-40°	1154.8	13.0
40°-50°	1560.7	17.5
50°-60°	1808.0	20.3
60°-70°	1766.1	19.8
70°-80°	1060.5	11.9
80°-90°	135.8	1.5
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°	8898.0	100.0
0°-180°	8898.0	100.0



REPORT NUMBER: P233484

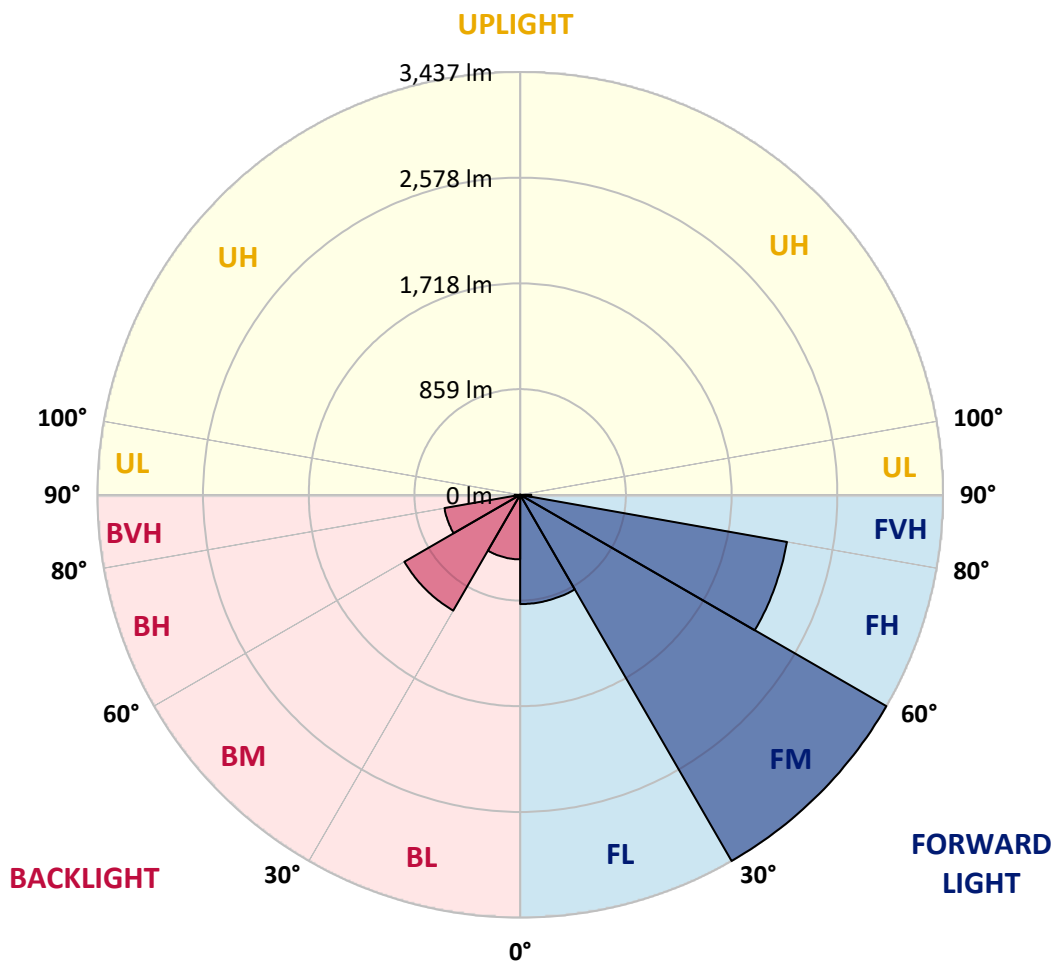
CATALOG NUMBER: VERD-C01H-D-U-T2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	887.9	10.0			
FM	(30°-60°)	3436.7	38.6			
FH	(60°-80°)	2202.1	24.7			G2/5000
FVH	(80°-90°)	90.4	1.0			G1/100
BL	(0°-30°)	524.3	5.9	B2/1000		
BM	(30°-60°)	1086.8	12.2	B2/2500		
BH	(60°-80°)	624.5	7.0	B2/1000		G2/1000
BVH	(80°-90°)	45.4	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





REPORT NUMBER: P233484

CATALOG NUMBER: VERD-C01H-D-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1727.2	1733.6	1726.4	1705.4	1694.9	1687.6	1665.8	1646.4	1631.0	1629.4	1614.9
5°	1793.4	1803.1	1791.0	1764.3	1753.8	1738.5	1714.2	1687.6	1660.1	1654.5	1625.4
7.5°	1877.4	1879.0	1872.6	1845.9	1824.1	1791.8	1749.8	1721.5	1690.0	1681.1	1635.1
10°	1948.5	1947.7	1939.6	1913.8	1892.0	1863.7	1804.7	1758.7	1721.5	1710.2	1646.4
12.5°	2016.4	2014.8	2006.7	1980.0	1952.6	1929.1	1884.7	1822.5	1772.4	1757.9	1678.7
15°	2100.4	2096.3	2083.4	2047.9	2026.1	1998.6	1966.3	1904.1	1846.7	1826.5	1725.5
17.5°	2165.0	2164.2	2154.5	2124.6	2098.8	2068.9	2039.0	1990.5	1928.3	1905.7	1771.6
20°	2202.2	2198.9	2196.5	2173.1	2166.6	2150.5	2107.7	2070.5	2008.3	1984.9	1823.3
22.5°	2241.8	2242.6	2243.4	2231.3	2249.8	2236.1	2204.6	2159.4	2096.3	2069.7	1896.0
25°	2250.6	2252.3	2268.4	2295.1	2317.7	2342.7	2320.1	2275.7	2207.8	2179.6	1995.4
27.5°	2225.6	2232.1	2280.5	2325.8	2405.8	2438.1	2434.0	2431.6	2362.1	2333.9	2131.9
30°	2248.2	2248.2	2281.3	2358.9	2459.9	2544.7	2563.3	2615.0	2594.0	2573.8	2361.3
32.5°	2180.4	2192.5	2251.5	2359.7	2519.7	2643.3	2727.3	2871.1	2954.3	2937.3	2686.1
35°	2052.7	2068.9	2155.3	2320.9	2549.5	2759.6	2909.8	3186.9	3347.7	3367.9	3077.1
37.5°	1954.2	1967.9	2076.2	2260.3	2560.9	2868.6	3120.7	3542.4	3750.0	3739.5	3408.3
40°	1833.8	1858.0	1967.1	2188.4	2534.2	2961.5	3349.3	3868.8	4124.0	4075.6	3723.3
42.5°	1725.5	1746.6	1837.8	2073.7	2497.0	3014.1	3556.1	4204.8	4428.6	4389.8	4021.4
45°	1610.8	1629.4	1714.2	1936.4	2410.6	3039.9	3750.0	4526.3	4721.0	4677.4	4297.7
47.5°	1479.2	1504.2	1605.2	1807.1	2283.8	3023.8	3891.4	4805.9	4998.9	4966.6	4526.3
50°	1147.1	1173.0	1437.2	1686.0	2107.7	2956.7	4018.2	5085.4	5250.2	5219.5	4728.3
52.5°	1041.3	1052.6	1135.0	1547.0	1924.3	2824.2	4097.4	5315.6	5494.9	5464.2	4918.9
55°	976.7	984.8	1030.8	1263.5	1768.4	2610.9	4107.1	5554.7	5700.9	5660.5	5121.7
57.5°	910.4	919.3	970.2	1089.8	1611.6	2277.3	4004.5	5757.5	5868.2	5824.5	5315.6
60°	854.7	859.5	909.6	992.0	1434.7	1946.1	3740.3	5895.6	6022.5	5965.9	5505.4
62.5°	803.8	810.3	846.6	921.7	1286.1	1698.1	3371.9	5896.4	6107.3	6072.5	5601.6
65°	737.6	747.3	782.8	850.7	1165.7	1528.4	2990.6	5793.8	6122.6	6070.9	5596.7
67.5°	660.8	672.9	705.2	759.4	1005.8	1347.5	2459.1	5658.9	5822.9	5814.0	5365.7
70°	584.1	584.1	620.4	664.0	834.5	1153.6	1942.9	5178.3	5365.7	5379.4	4951.3
72.5°	492.8	494.4	522.7	560.6	672.1	946.8	1415.3	4427.0	5002.2	4835.7	4465.7
75°	413.6	412.0	441.1	472.6	546.9	745.6	923.4	3252.4	4571.6	4608.7	3930.2
77.5°	219.7	211.7	248.8	273.9	320.7	414.4	512.2	1631.0	3310.5	3383.2	3146.5
80°	62.2	63.0	164.8	184.2	210.8	205.2	237.5	622.0	1309.5	1475.9	1834.6
82.5°	37.2	42.8	93.7	109.9	82.4	53.3	90.5	345.8	677.8	759.4	910.4
85°	19.4	21.0	33.1	41.2	31.5	26.7	27.5	145.4	329.6	335.3	363.5
87.5°	8.9	8.9	12.1	12.9	8.1	4.8	3.2	2.4	2.4	1.6	1.6
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: P233484

CATALOG NUMBER: VERD-C01H-D-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0	1627.0
2.5°	1603.6	1611.6	1597.9	1587.4	1579.3	1574.5	1568.8	1555.1	1559.1	1564.8	1564.0
5°	1611.6	1615.7	1591.4	1558.3	1527.6	1505.8	1491.3	1469.5	1469.5	1478.4	1478.4
7.5°	1618.9	1613.3	1564.0	1508.2	1473.5	1455.7	1432.3	1408.9	1404.8	1411.3	1412.1
10°	1623.0	1598.7	1530.1	1478.4	1433.1	1396.8	1366.9	1340.2	1339.4	1348.3	1349.9
12.5°	1640.7	1593.9	1527.6	1456.5	1388.7	1349.9	1314.4	1284.5	1274.0	1274.8	1276.4
15°	1668.2	1613.3	1524.4	1426.6	1353.1	1301.4	1249.7	1211.8	1202.1	1215.0	1219.8
17.5°	1701.3	1644.8	1509.0	1399.2	1309.5	1247.3	1195.6	1161.7	1131.0	1117.2	1114.8
20°	1744.9	1671.4	1517.1	1358.8	1267.5	1184.3	1119.7	1078.5	1052.6	1051.0	1049.4
22.5°	1802.3	1701.3	1518.7	1332.1	1201.3	1114.8	1034.8	1011.4	965.4	948.4	955.7
25°	1878.2	1746.6	1514.7	1303.9	1150.4	1034.0	937.9	895.1	878.1	858.7	860.4
27.5°	1976.0	1818.5	1525.2	1266.7	1067.2	935.5	828.0	782.0	756.1	740.0	742.4
30°	2174.7	1927.5	1524.4	1231.2	990.4	833.7	712.5	681.8	656.0	641.4	648.7
32.5°	2457.5	2164.2	1558.3	1183.5	903.2	697.2	615.6	580.8	559.0	542.9	546.9
35°	2807.3	2421.9	1645.6	1118.9	803.8	593.0	537.2	494.4	467.7	461.3	458.9
37.5°	3132.0	2649.7	1728.0	1076.0	689.9	535.6	465.3	422.5	399.1	407.2	407.2
40°	3422.0	2951.9	1820.9	1007.4	586.5	470.2	385.3	366.0	353.8	367.6	372.4
42.5°	3640.9	3241.9	1946.9	916.9	502.5	392.6	329.6	343.3	348.2	357.9	355.5
45°	3912.4	3407.5	2071.3	832.9	429.0	327.2	318.3	346.6	357.9	366.8	362.7
47.5°	4162.0	3535.9	2046.3	677.8	361.1	316.7	323.9	346.6	366.0	380.5	378.1
50°	4376.9	3696.7	1998.6	526.7	346.6	326.4	329.6	337.7	366.8	376.5	376.5
52.5°	4511.0	3855.8	1939.6	425.7	357.1	338.5	332.8	332.0	351.4	358.7	352.2
55°	4672.6	4020.6	1786.9	395.0	361.1	346.6	341.7	334.4	340.1	334.4	337.7
57.5°	4851.9	4183.0	1552.7	386.1	358.7	344.1	370.0	331.2	328.0	307.8	302.9
60°	5009.4	4246.8	1347.5	366.0	345.8	337.7	344.1	327.2	311.0	284.4	273.9
62.5°	5068.4	4241.2	1139.1	344.9	326.4	328.0	327.2	315.1	300.5	273.9	267.4
65°	4997.3	4111.9	923.4	319.9	311.0	317.5	309.4	291.6	267.4	245.6	239.9
67.5°	4756.6	3782.3	685.9	286.8	286.0	298.1	292.4	268.2	241.5	224.6	224.6
70°	4296.1	3376.8	444.3	238.3	256.1	277.1	277.1	251.2	216.5	202.0	206.0
72.5°	3792.0	2905.8	287.6	176.9	202.0	251.2	249.6	231.9	199.5	181.0	181.8
75°	3284.7	2305.6	185.8	122.0	130.9	214.1	221.3	189.0	155.1	132.5	128.4
77.5°	2497.0	1734.4	117.9	71.1	83.2	130.9	168.0	157.5	158.3	193.1	191.5
80°	1535.7	1045.3	85.6	34.7	41.2	85.6	135.7	150.3	210.8	138.9	127.6
82.5°	769.1	488.7	45.2	21.0	23.4	38.0	80.8	180.1	153.5	92.1	87.2
85°	287.6	131.7	13.7	10.5	12.9	19.4	33.1	164.8	97.7	73.5	71.9
87.5°	1.6	2.4	2.4	3.2	4.8	5.7	12.1	78.4	49.3	35.5	33.9
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)