

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: P233790

Luminaire Tested: **VERD-C02H-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H-D-U-T4-7030-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14746 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

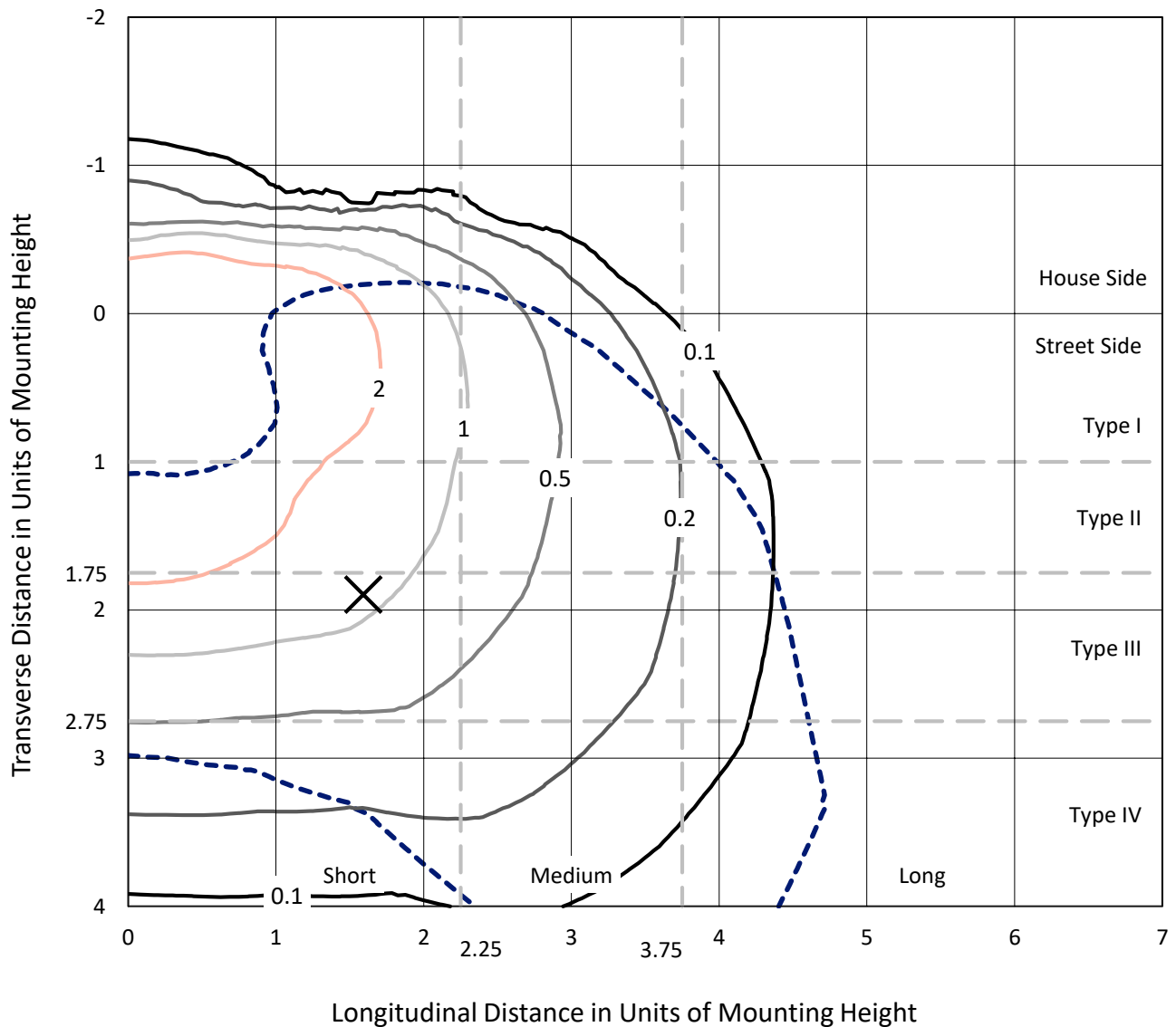
Input Watts (W): 120  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P233790  
 CATALOG NUMBER: VERD-C02H-D-U-T4-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

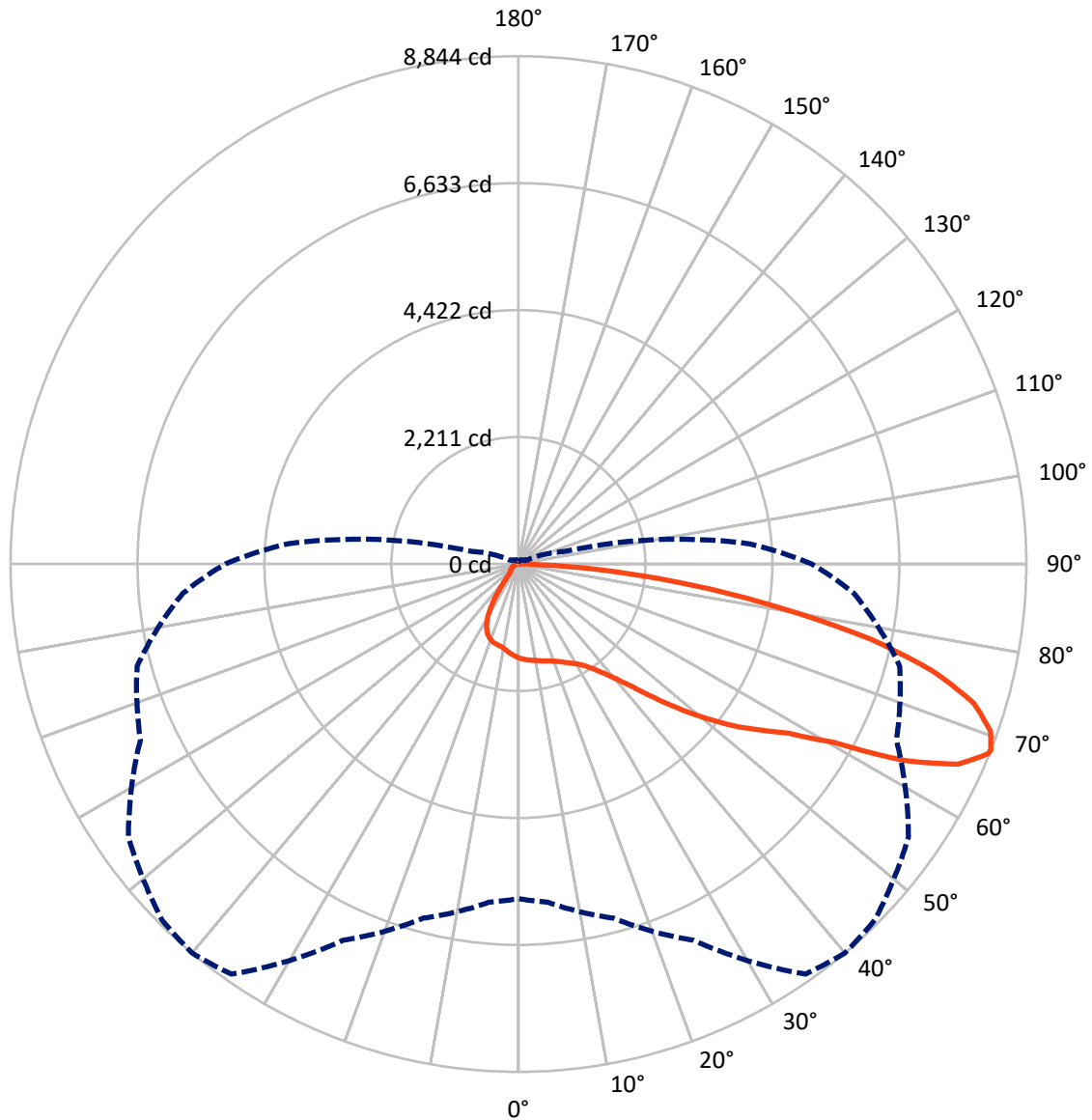
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233790  
CATALOG NUMBER: VERD-C02H-D-U-T4-7030-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P233790

CATALOG NUMBER: VERD-C02H-D-U-T4-7030-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2392.1	0.0	2392.1
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	12353.9	0.0	12353.9
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	14746.0	0.0	14746.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.5	1.1
10°-20°	465.6	3.2
20°-30°	781.4	5.3
30°-40°	1157.3	7.8
40°-50°	1957.9	13.3
50°-60°	2988.0	20.3
60°-70°	3912.5	26.5
70°-80°	2812.9	19.1
80°-90°	514.9	3.5
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°	14746.0	100.0
0°-180°	14746.0	100.0



REPORT NUMBER: P233790

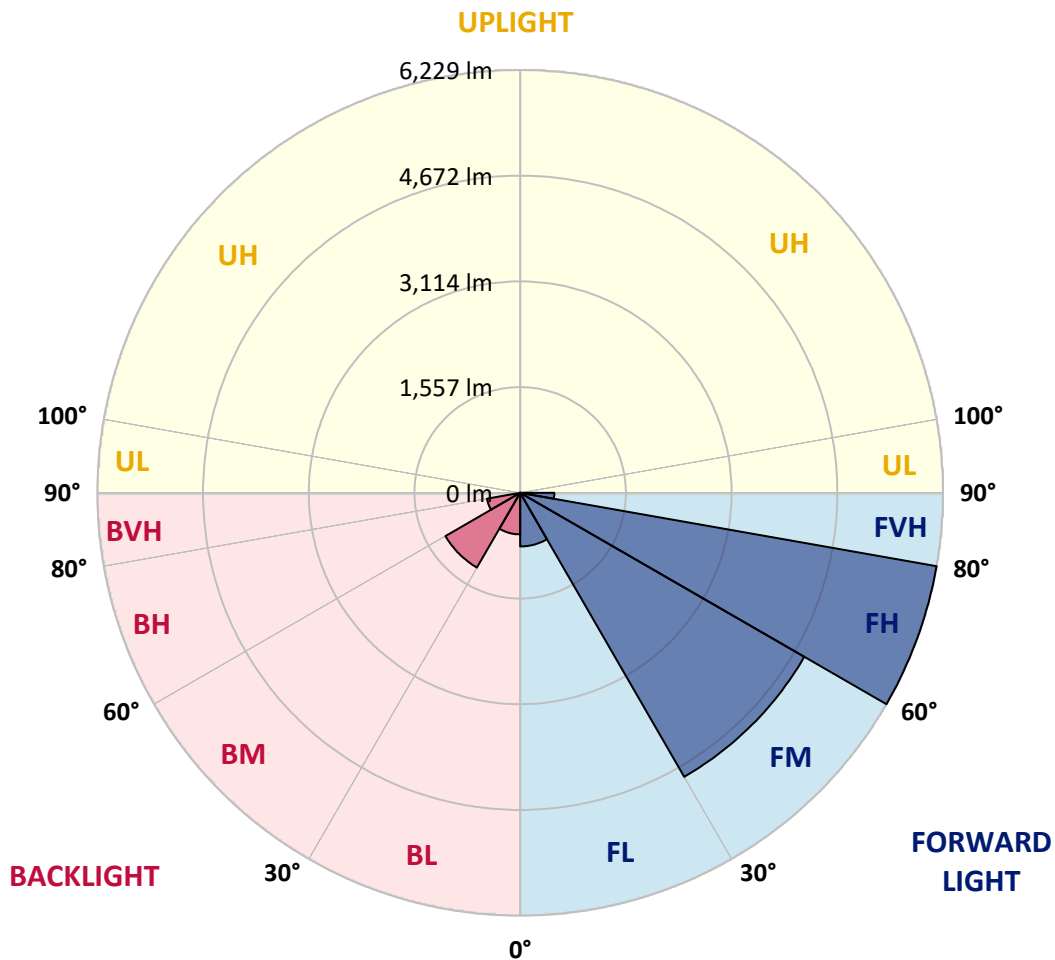
CATALOG NUMBER: VERD-C02H-D-U-T4-7030-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.5	5.4			
FM	(30°-60°)	4831.8	32.8			
FH	(60°-80°)	6228.9	42.2			G3/7500
FVH	(80°-90°)	502.7	3.4			G4/750
BL	(0°-30°)	612.0	4.2	B2/1000		
BM	(30°-60°)	1271.4	8.6	B2/2500		
BH	(60°-80°)	496.4	3.4	B1/500		G1/500
BVH	(80°-90°)	12.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





REPORT NUMBER: P233790

CATALOG NUMBER: VERD-C02H-D-U-T4-7030-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1690.4	1694.1	1689.2	1676.8	1663.3	1655.9	1654.6	1653.4	1647.2	1638.6	1626.2
5°	1707.7	1708.9	1704.0	1694.1	1681.8	1679.3	1675.6	1676.8	1673.1	1664.5	1650.9
7.5°	1715.1	1717.6	1711.4	1701.5	1691.7	1691.7	1690.4	1694.1	1691.7	1688.0	1671.9
10°	1712.7	1716.4	1712.7	1708.9	1705.2	1708.9	1706.5	1715.1	1716.4	1716.4	1697.8
12.5°	1708.9	1713.9	1715.1	1718.8	1725.0	1728.7	1733.6	1752.2	1760.8	1767.0	1752.2
15°	1712.7	1715.1	1725.0	1731.2	1743.5	1752.2	1763.3	1794.1	1809.0	1826.3	1818.8
17.5°	1728.7	1734.9	1749.7	1755.9	1768.2	1774.4	1788.0	1826.3	1855.9	1886.8	1891.7
20°	1763.3	1767.0	1791.7	1794.1	1800.3	1806.5	1821.3	1863.3	1907.7	1952.2	1964.5
22.5°	1801.6	1810.2	1833.7	1830.0	1842.3	1844.8	1858.4	1904.0	1965.8	2020.1	2047.3
25°	1841.1	1848.5	1871.9	1874.4	1889.2	1899.1	1915.2	1959.6	2038.6	2107.8	2155.9
27.5°	1874.4	1889.2	1911.5	1913.9	1942.3	1954.7	1978.1	2028.8	2123.8	2209.0	2288.1
30°	1936.1	1939.9	1960.8	1968.3	2006.5	2017.6	2044.8	2109.0	2225.1	2331.3	2454.8
32.5°	2012.7	2011.5	2031.2	2043.6	2090.5	2110.3	2144.8	2218.9	2347.3	2479.5	2654.8
35°	2153.5	2141.1	2153.5	2165.8	2220.2	2241.1	2278.2	2389.3	2540.0	2764.7	2980.8
37.5°	2477.0	2458.5	2432.5	2370.8	2384.4	2411.5	2465.9	2616.5	2838.8	3256.1	3464.8
40°	3037.6	2996.8	2888.2	2725.2	2628.9	2631.3	2682.0	2879.5	3205.5	3819.2	3976.0
42.5°	3545.1	3516.7	3385.8	3162.3	2940.0	2927.7	2945.0	3175.9	3605.6	4341.5	4423.0
45°	4022.9	4036.5	3846.4	3671.0	3405.5	3324.1	3303.1	3492.0	4048.9	4807.0	4814.4
47.5°	4465.0	4487.2	4257.6	4092.1	3830.3	3759.9	3694.5	3824.1	4467.5	5203.4	5142.9
50°	4940.4	4957.7	4639.1	4503.3	4283.5	4218.0	4168.6	4225.4	4895.9	5571.4	5435.5
52.5°	5597.3	5501.0	5100.9	4876.2	4681.1	4676.1	4637.9	4673.7	5383.7	5902.3	5657.8
55°	6372.7	6120.9	5696.1	5336.8	5086.1	5099.7	5054.0	5113.3	5866.5	6186.3	5864.0
57.5°	6646.9	6640.7	6443.1	6098.6	5589.9	5559.0	5480.0	5546.7	6283.8	6451.8	6009.7
60°	7027.2	7060.5	7082.8	6875.3	6581.4	6301.1	6036.9	6030.7	6672.8	6693.8	6081.3
62.5°	7272.9	7303.8	7476.6	7449.5	7631.0	7538.4	7237.1	6569.1	6970.4	6850.6	6108.5
65°	6813.6	6890.1	7326.0	7658.2	8276.8	8406.4	8363.2	7396.4	7172.9	6896.3	6057.9
67.5°	5982.6	6082.6	6560.4	7337.1	8676.9	8821.3	8742.3	8229.9	7260.6	6876.5	5918.3
68°	5827.0	5913.4	6382.6	7229.7	8717.6	8843.6	8771.9	8291.6	7264.3	6874.1	5865.2
70°	5078.7	5149.1	5607.2	6679.0	8604.0	8721.3	8711.4	8349.6	7232.2	6797.5	5508.4
72.5°	3940.2	4010.6	4416.8	5539.3	8079.2	8294.1	8285.4	8117.5	7172.9	6407.3	4618.1
75°	2848.7	2926.5	3296.9	4256.3	6991.4	7464.3	7559.4	7719.9	6556.7	5392.3	3285.8
77.5°	2057.2	2114.0	2433.8	3215.4	5710.9	6251.7	6444.4	6606.1	5366.4	3930.3	1563.2
80°	1371.9	1412.6	1721.3	2390.6	4302.0	4620.6	4828.0	4557.6	3053.6	1421.2	169.2
82.5°	844.6	870.5	1113.8	1676.8	2975.8	3075.9	3077.1	2431.3	984.1	135.8	91.4
85°	453.2	461.8	605.0	915.0	1571.9	1647.2	1617.6	1021.2	198.8	72.9	49.4
87.5°	72.9	79.0	190.2	343.3	485.3	374.1	239.5	75.3	19.8	11.1	7.4
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: P233790

CATALOG NUMBER: VERD-C02H-D-U-T4-7030-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6	1638.6
2.5°	1632.4	1628.7	1618.8	1613.9	1601.5	1605.2	1605.2	1595.3	1600.3	1620.0	1617.6
5°	1647.2	1648.4	1625.0	1612.6	1585.5	1578.1	1566.9	1552.1	1550.9	1564.5	1565.7
7.5°	1659.6	1665.7	1632.4	1607.7	1570.7	1544.7	1522.5	1496.6	1490.4	1499.0	1499.0
10°	1679.3	1685.5	1643.5	1608.9	1554.6	1512.6	1474.3	1441.0	1427.4	1427.4	1428.7
12.5°	1731.2	1727.5	1679.3	1626.2	1562.0	1495.3	1434.8	1390.4	1358.3	1357.0	1352.1
15°	1802.8	1789.2	1742.3	1662.0	1579.3	1494.1	1410.1	1341.0	1285.4	1270.6	1264.4
17.5°	1879.3	1862.1	1805.3	1707.7	1606.5	1492.9	1381.7	1285.4	1192.8	1157.0	1145.9
20°	1962.1	1941.1	1883.1	1760.8	1633.6	1484.2	1339.7	1205.2	1079.2	1011.3	994.0
22.5°	2053.5	2036.2	1965.8	1815.1	1652.1	1465.7	1274.3	1103.9	943.4	845.8	838.4
25°	2172.0	2155.9	2052.2	1863.3	1653.4	1431.1	1187.9	974.2	773.0	658.1	634.7
27.5°	2314.0	2285.6	2121.4	1892.9	1633.6	1370.6	1075.5	801.4	574.2	477.9	475.4
30°	2468.3	2416.5	2176.9	1900.3	1589.2	1274.3	921.2	589.0	407.5	342.0	342.0
32.5°	2649.9	2554.8	2233.7	1888.0	1516.3	1140.9	705.1	408.7	280.3	249.4	249.4
35°	2915.3	2768.4	2306.6	1857.1	1413.8	957.0	501.3	270.4	221.0	217.3	217.3
37.5°	3335.2	3090.7	2405.4	1805.3	1273.1	729.8	326.0	208.7	211.1	211.1	209.9
40°	3782.2	3463.6	2541.2	1722.5	1096.5	503.8	213.6	197.6	201.3	203.7	202.5
42.5°	4185.9	3818.0	2689.4	1611.4	887.8	317.3	195.1	190.2	187.7	190.2	191.4
45°	4535.4	4125.4	2838.8	1466.9	655.7	207.4	190.2	179.0	171.6	172.9	174.1
47.5°	4834.2	4367.4	2940.0	1315.1	434.6	184.0	184.0	164.2	156.8	156.8	156.8
50°	5096.0	4582.3	3001.8	1133.5	259.3	181.5	172.9	150.6	143.2	142.0	143.2
52.5°	5286.1	4732.9	2994.4	912.5	174.1	175.3	158.1	138.3	129.7	132.1	133.4
55°	5436.8	4828.0	2928.9	668.0	163.0	164.2	146.9	124.7	118.5	119.8	119.8
57.5°	5531.9	4851.5	2795.6	434.6	159.3	146.9	132.1	111.1	103.7	103.7	103.7
60°	5562.7	4839.1	2614.0	277.8	158.1	132.1	119.8	100.0	92.6	92.6	92.6
62.5°	5536.8	4767.5	2306.6	200.0	146.9	123.5	108.7	88.9	81.5	79.0	79.0
65°	5444.2	4576.1	1778.1	165.5	132.1	113.6	98.8	80.3	70.4	66.7	65.4
67.5°	5173.8	4161.2	1034.8	155.6	119.8	103.7	91.4	72.9	61.7	55.6	54.3
68°	5103.4	4037.8	850.8	154.3	119.8	102.5	90.1	70.4	59.3	53.1	51.9
70°	4599.6	3257.4	244.5	146.9	117.3	98.8	82.7	64.2	53.1	45.7	44.5
72.5°	3463.6	1909.0	153.1	130.9	116.1	87.7	80.3	64.2	46.9	39.5	37.0
75°	1933.7	434.6	129.7	97.5	108.7	86.4	79.0	58.0	42.0	32.1	30.9
77.5°	397.6	125.9	111.1	67.9	82.7	75.3	66.7	49.4	38.3	24.7	23.5
80°	112.4	93.8	98.8	49.4	46.9	53.1	49.4	43.2	28.4	18.5	18.5
82.5°	72.9	69.1	88.9	33.3	24.7	24.7	32.1	25.9	24.7	14.8	14.8
85°	44.5	58.0	43.2	14.8	12.3	9.9	11.1	11.1	14.8	9.9	9.9
87.5°	6.2	6.2	6.2	6.2	6.2	4.9	3.7	3.7	3.7	4.9	4.9
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)