

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: P233515

Luminaire Tested: **VERD-C02H6-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H6-D-U-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1250mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10226 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

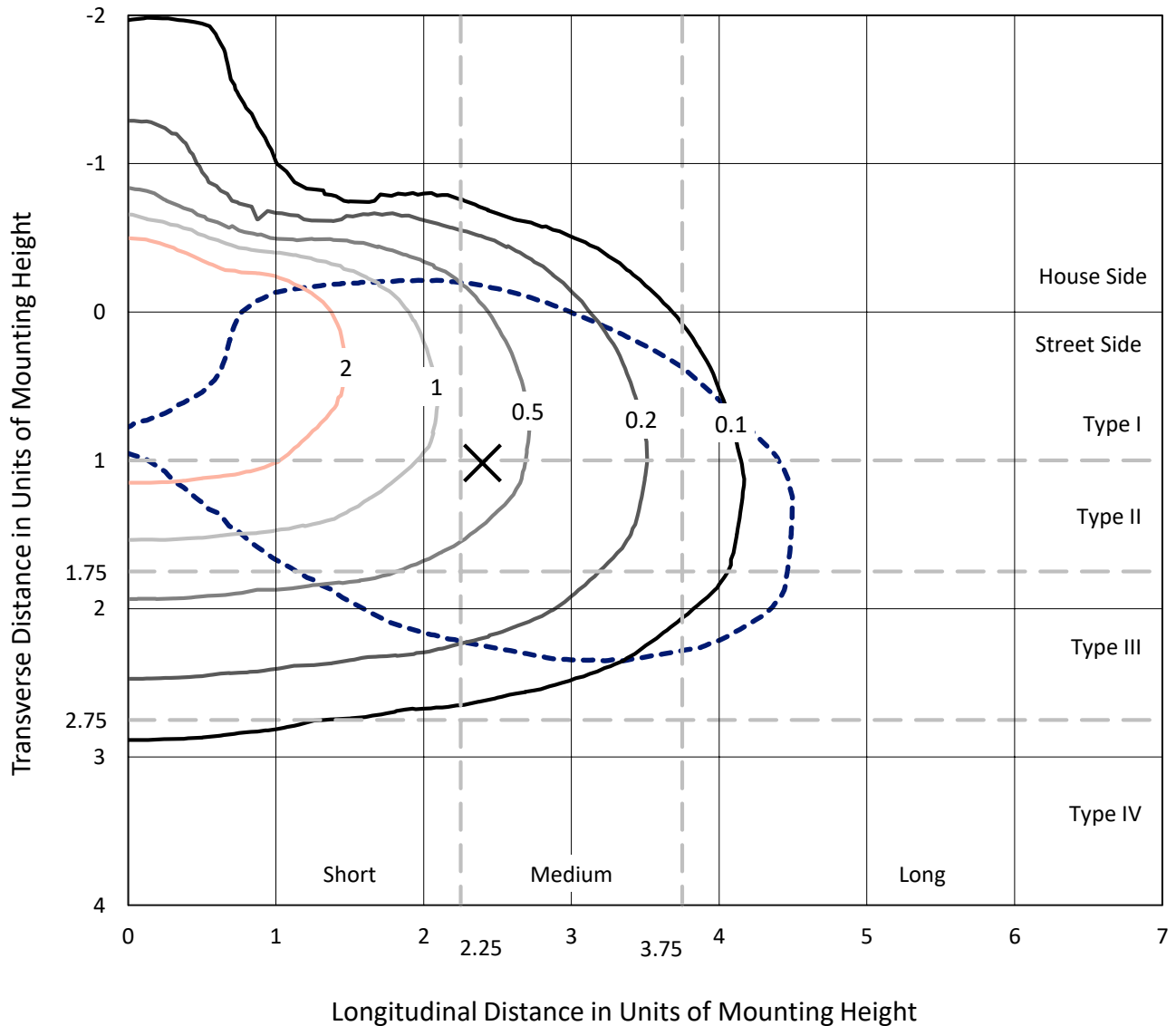
Input Watts (W): 98
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

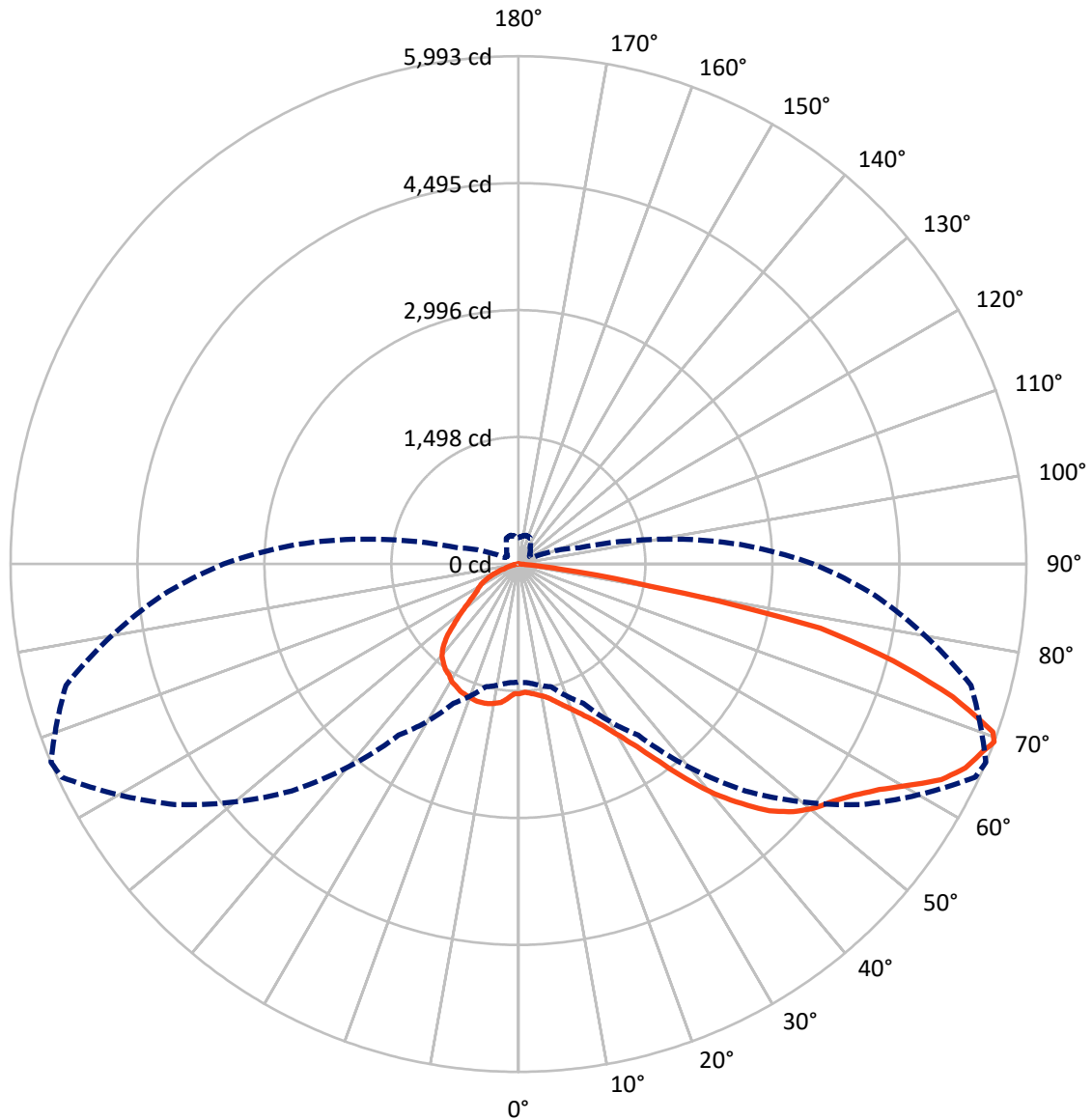
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2302.8	0.0	2302.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	7923.2	0.0	7923.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	10226.0	0.0	10226.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	1.5
10°-20°	493.7	4.8
20°-30°	850.6	8.3
30°-40°	1265.1	12.4
40°-50°	1742.4	17.0
50°-60°	2082.9	20.4
60°-70°	2198.0	21.5
70°-80°	1317.2	12.9
80°-90°	121.2	1.2
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°	10226.0	100.0
0°-180°	10226.0	100.0



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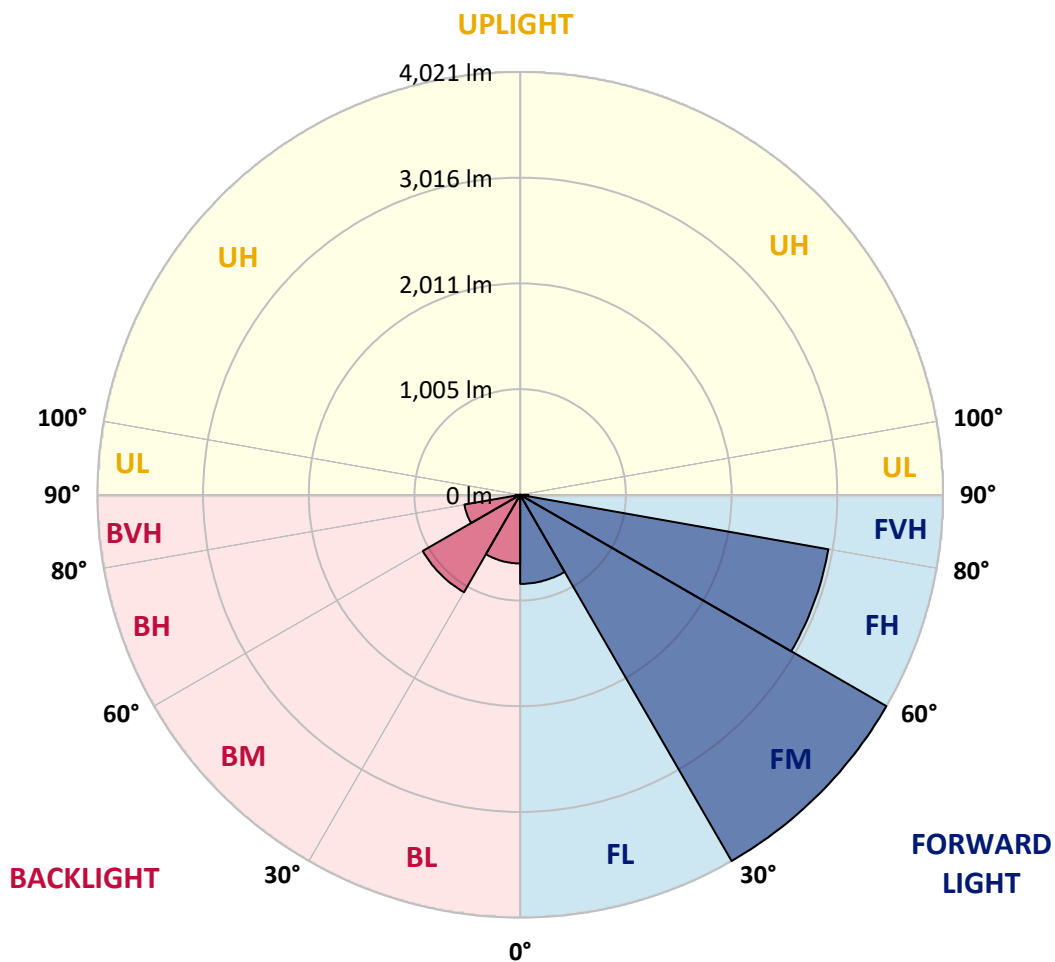
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.8	8.3			
FM (30°-60°)	4021.3	39.3			
FH (60°-80°)	2976.8	29.1			G2/5000
FVH (80°-90°)	78.3	0.8			G1/100
BL (0°-30°)	652.5	6.4	B2/1000		
BM (30°-60°)	1069.1	10.5	B2/2500		
BH (60°-80°)	538.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	42.8	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1554.7	1553.8	1549.1	1532.4	1530.5	1528.7	1517.5	1518.4	1515.7	1518.4	1519.4
5°	1597.5	1593.8	1589.1	1571.4	1564.9	1556.6	1539.8	1538.9	1532.4	1534.2	1536.1
7.5°	1650.5	1646.8	1643.0	1622.6	1616.1	1601.2	1575.2	1562.1	1556.6	1558.4	1561.2
10°	1722.1	1715.6	1710.0	1680.2	1670.0	1644.9	1613.3	1591.0	1583.5	1586.3	1593.8
12.5°	1803.9	1795.5	1786.2	1755.6	1741.6	1702.6	1665.4	1636.5	1625.4	1631.9	1637.5
15°	1888.5	1883.9	1880.2	1843.9	1824.4	1781.6	1735.1	1698.8	1688.6	1694.2	1697.0
17.5°	2000.1	1997.3	1990.8	1953.6	1916.4	1867.1	1806.7	1768.6	1758.3	1761.1	1754.6
20°	2121.9	2114.5	2110.8	2068.9	2029.9	1962.0	1892.2	1838.3	1835.5	1836.4	1816.0
22.5°	2258.6	2250.2	2242.8	2204.7	2156.3	2077.3	1986.2	1925.7	1927.6	1929.4	1883.9
25°	2398.1	2391.6	2385.1	2348.8	2300.4	2214.0	2104.2	2036.4	2035.4	2036.4	1973.1
27.5°	2544.1	2536.6	2535.7	2505.9	2457.6	2369.3	2242.8	2174.0	2174.0	2170.3	2074.5
30°	2674.2	2681.7	2681.7	2664.9	2619.4	2531.0	2412.0	2343.2	2352.5	2345.1	2223.3
32.5°	2816.5	2814.6	2827.7	2814.6	2777.5	2695.6	2596.1	2552.4	2568.2	2592.4	2470.6
35°	2899.3	2912.3	2944.8	2963.4	2945.8	2878.8	2806.3	2839.8	2861.1	2969.9	2823.9
37.5°	2995.0	3006.2	3050.8	3096.4	3103.8	3067.6	3067.6	3177.3	3219.1	3361.4	3191.2
40°	3061.1	3072.2	3120.6	3173.6	3246.1	3271.2	3336.3	3506.5	3566.0	3661.7	3464.6
42.5°	3022.0	3027.6	3131.7	3261.0	3367.9	3488.8	3592.0	3807.7	3864.4	3931.4	3689.6
45°	2953.2	2963.4	3078.7	3287.0	3471.1	3711.0	3841.2	4091.3	4156.4	4149.9	3862.6
47.5°	2876.9	2892.8	3021.1	3253.5	3559.5	3903.5	4069.0	4329.4	4366.6	4320.1	3982.5
50°	2792.3	2819.3	2956.0	3220.1	3623.6	4071.8	4238.2	4507.9	4527.4	4432.6	4087.6
52.5°	2695.6	2713.3	2864.9	3155.9	3668.2	4183.4	4373.1	4640.9	4649.2	4572.1	4198.3
55°	2561.7	2577.5	2745.8	3070.4	3674.8	4249.4	4459.5	4783.1	4811.0	4735.7	4298.7
57.5°	2417.6	2437.1	2610.1	2946.7	3615.2	4276.4	4563.7	4966.3	5020.2	4912.4	4379.6
60°	2250.2	2275.3	2450.1	2796.1	3498.1	4318.2	4758.0	5233.2	5300.1	5112.3	4456.8
62.5°	2076.3	2090.3	2251.2	2587.8	3315.8	4339.6	4934.7	5538.2	5602.3	5301.1	4493.0
65°	1831.8	1854.1	1997.3	2337.6	3059.2	4247.5	5017.5	5751.1	5797.6	5454.5	4457.7
67.5°	1572.4	1572.4	1694.2	2038.2	2717.0	4003.9	4984.0	5853.4	5909.2	5562.3	4346.1
69°	1392.9	1406.9	1499.8	1813.2	2466.0	3787.3	4947.7	5947.3	5992.9	5527.9	4217.8
70°	1255.3	1267.4	1361.3	1649.5	2279.1	3616.2	4869.6	5905.5	5938.9	5421.9	4083.0
72.5°	923.3	933.6	998.7	1149.3	1713.7	2917.9	4390.7	5339.2	5359.6	4876.1	3602.2
75°	629.5	635.1	684.4	776.4	999.6	2040.1	3587.4	4509.8	4570.2	4228.9	2949.5
77.5°	217.6	234.3	264.1	357.1	427.7	801.5	2431.6	3553.9	3644.1	3274.9	2063.3
80°	74.4	73.5	141.3	183.2	225.0	368.2	769.0	1489.6	1574.2	1350.1	742.9
82.5°	55.8	57.7	93.9	101.4	68.8	135.8	299.4	455.6	499.3	436.1	307.8
85°	35.3	34.4	41.8	43.7	31.6	57.7	72.5	73.5	76.2	66.0	66.9
87.5°	19.5	19.5	18.6	15.8	8.4	7.4	6.5	6.5	5.6	5.6	5.6
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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1514.7	1527.7	1530.5	1534.2	1543.5	1555.6	1572.4	1572.4	1578.9	1598.4	1604.9
5°	1536.1	1551.9	1572.4	1593.8	1618.9	1645.8	1672.8	1682.1	1695.1	1721.1	1726.7
7.5°	1568.7	1586.3	1621.7	1650.5	1671.9	1698.8	1721.1	1724.9	1741.6	1765.8	1770.4
10°	1602.1	1617.9	1653.3	1668.1	1697.0	1726.7	1737.9	1743.5	1757.4	1776.0	1773.2
12.5°	1647.7	1652.3	1677.4	1687.7	1701.6	1720.2	1725.8	1725.8	1734.2	1763.9	1764.9
15°	1692.3	1692.3	1696.0	1690.5	1692.3	1701.6	1702.6	1690.5	1699.8	1714.6	1709.1
17.5°	1739.7	1726.7	1710.0	1685.8	1664.4	1663.5	1644.0	1615.1	1606.8	1628.2	1627.2
20°	1784.4	1762.1	1722.1	1667.2	1637.5	1597.5	1548.2	1531.5	1530.5	1534.2	1531.5
22.5°	1843.0	1797.4	1724.9	1649.5	1567.7	1504.5	1463.6	1406.9	1405.0	1396.6	1383.6
25°	1912.7	1847.6	1737.0	1630.0	1511.0	1429.2	1330.6	1270.2	1235.8	1243.2	1220.9
27.5°	2002.9	1923.9	1741.6	1587.2	1432.9	1294.3	1175.3	1097.2	1067.5	1054.4	1039.6
30°	2126.6	2004.8	1775.1	1551.0	1336.2	1153.0	1007.0	893.6	850.8	862.0	863.8
32.5°	2324.6	2158.2	1792.7	1479.4	1224.6	998.7	809.0	686.2	661.1	692.7	701.1
35°	2669.6	2396.2	1834.6	1436.6	1097.2	818.3	601.6	551.4	557.0	583.9	585.8
37.5°	3009.0	2697.5	1963.8	1343.6	944.7	606.3	466.8	439.8	466.8	501.2	505.8
40°	3247.0	2932.7	2078.2	1251.6	730.9	438.9	356.1	323.6	362.6	417.5	427.7
42.5°	3458.1	3119.6	2159.1	1124.2	500.3	313.4	255.7	264.1	321.7	361.7	371.0
45°	3609.7	3248.0	2214.9	958.7	318.9	237.1	228.7	255.7	310.6	342.2	345.0
47.5°	3705.4	3323.3	2174.0	755.0	239.9	224.1	225.0	259.4	314.3	349.6	348.7
50°	3791.9	3363.3	2041.0	598.8	227.8	214.8	229.7	269.7	326.4	358.9	357.1
52.5°	3884.0	3402.3	1879.2	469.6	218.5	210.1	235.3	276.2	326.4	346.8	344.0
55°	3963.0	3436.7	1757.4	377.5	212.0	209.2	240.8	286.4	324.5	332.9	327.3
57.5°	4003.9	3378.1	1625.4	317.1	205.5	209.2	244.5	284.5	335.7	362.6	357.1
60°	3981.6	3323.3	1518.4	294.8	196.2	208.3	246.4	305.0	411.9	437.0	435.2
62.5°	3940.7	3262.8	1368.7	265.0	186.0	210.1	245.5	323.6	474.2	465.9	442.6
65°	3857.0	3142.0	1164.2	230.6	175.7	213.9	245.5	364.5	413.8	404.5	394.3
67.5°	3678.5	2880.7	931.7	198.1	164.6	202.7	241.8	346.8	356.1	332.0	319.9
69°	3478.6	2631.5	737.4	180.4	158.1	197.1	240.8	334.7	350.6	324.5	310.6
70°	3322.3	2437.1	596.0	167.4	151.6	195.3	239.9	326.4	347.8	318.9	304.1
72.5°	2767.2	1969.4	312.4	134.8	129.2	177.6	231.5	318.9	348.7	305.9	284.5
75°	2174.0	1401.3	207.4	103.2	99.5	155.3	212.0	306.8	328.2	275.2	242.7
77.5°	1340.8	613.7	143.2	71.6	72.5	120.9	182.3	274.3	331.0	278.0	236.2
80°	389.6	237.1	91.1	48.4	44.6	71.6	143.2	236.2	314.3	285.5	257.6
82.5°	225.0	154.4	61.4	30.7	27.0	32.5	90.2	183.2	277.1	261.3	266.9
85°	51.1	42.8	22.3	14.9	14.9	18.6	30.7	106.0	191.5	224.1	252.9
87.5°	5.6	5.6	5.6	5.6	5.6	4.6	5.6	28.8	83.7	119.0	138.5
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)