

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: P233539

Luminaire Tested: **VERD-C029-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233539
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-C029-D-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1030mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10135 lumens
Efficiency: N/A
Efficacy: 125.1 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

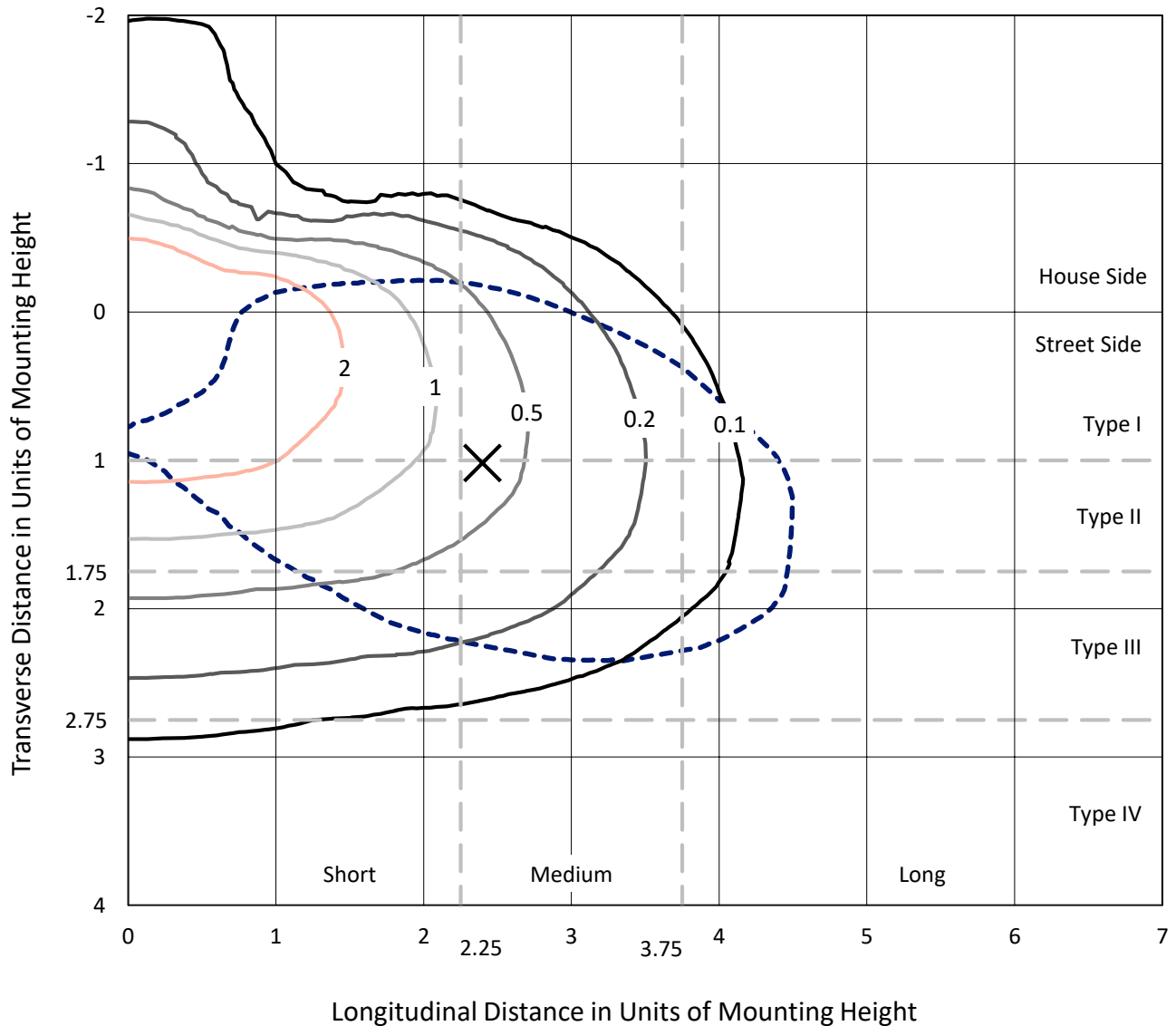
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

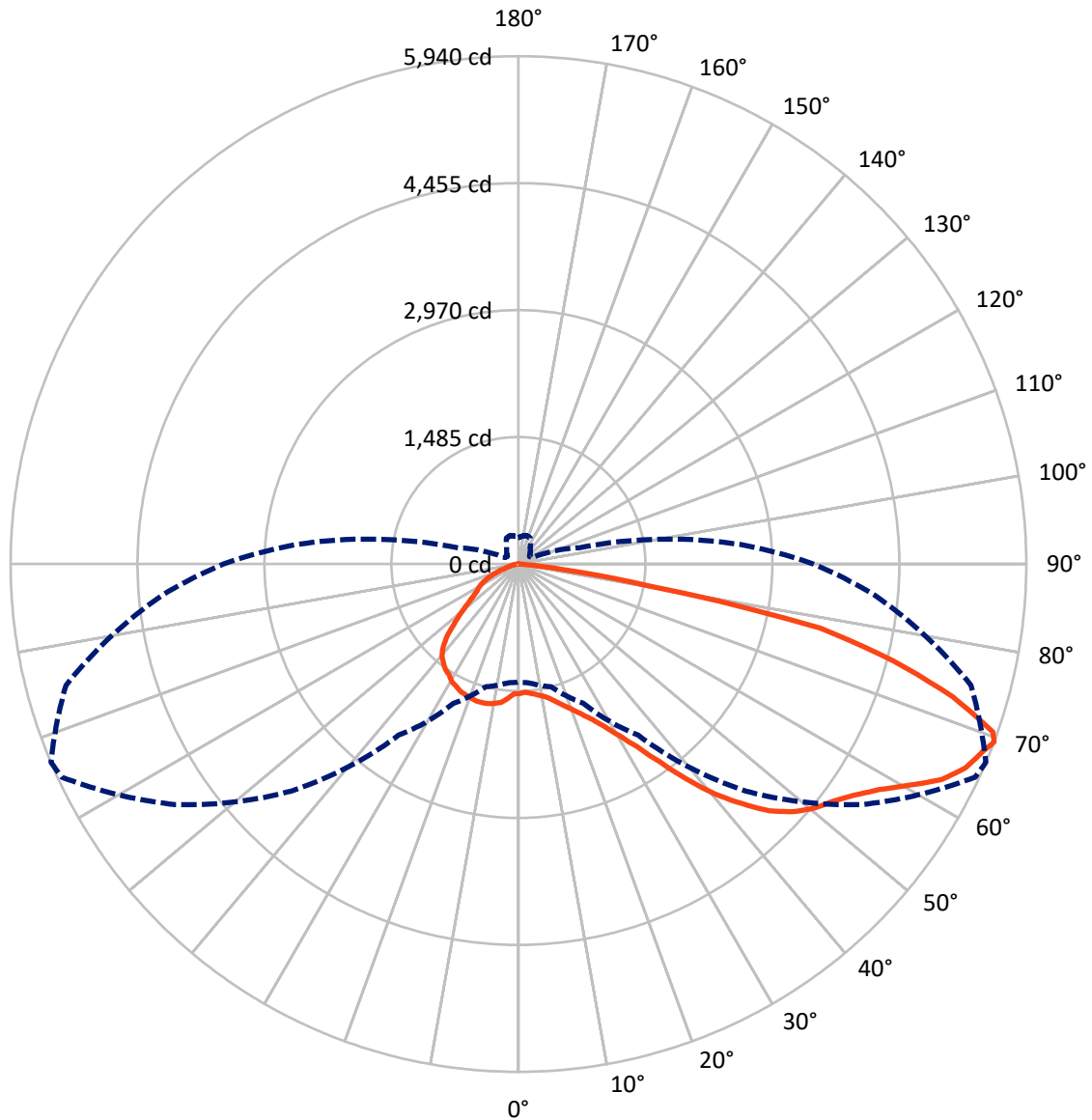


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - Semi-Cutoff

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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	2282.3	0.0	2282.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	7852.7	0.0	7852.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	10135.0	0.0	10135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	1.5
10°-20°	489.4	4.8
20°-30°	843.0	8.3
30°-40°	1253.9	12.4
40°-50°	1726.9	17.0
50°-60°	2064.4	20.4
60°-70°	2178.5	21.5
70°-80°	1305.5	12.9
80°-90°	120.1	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°	10135.0	100.0
0°-180°	10135.0	100.0



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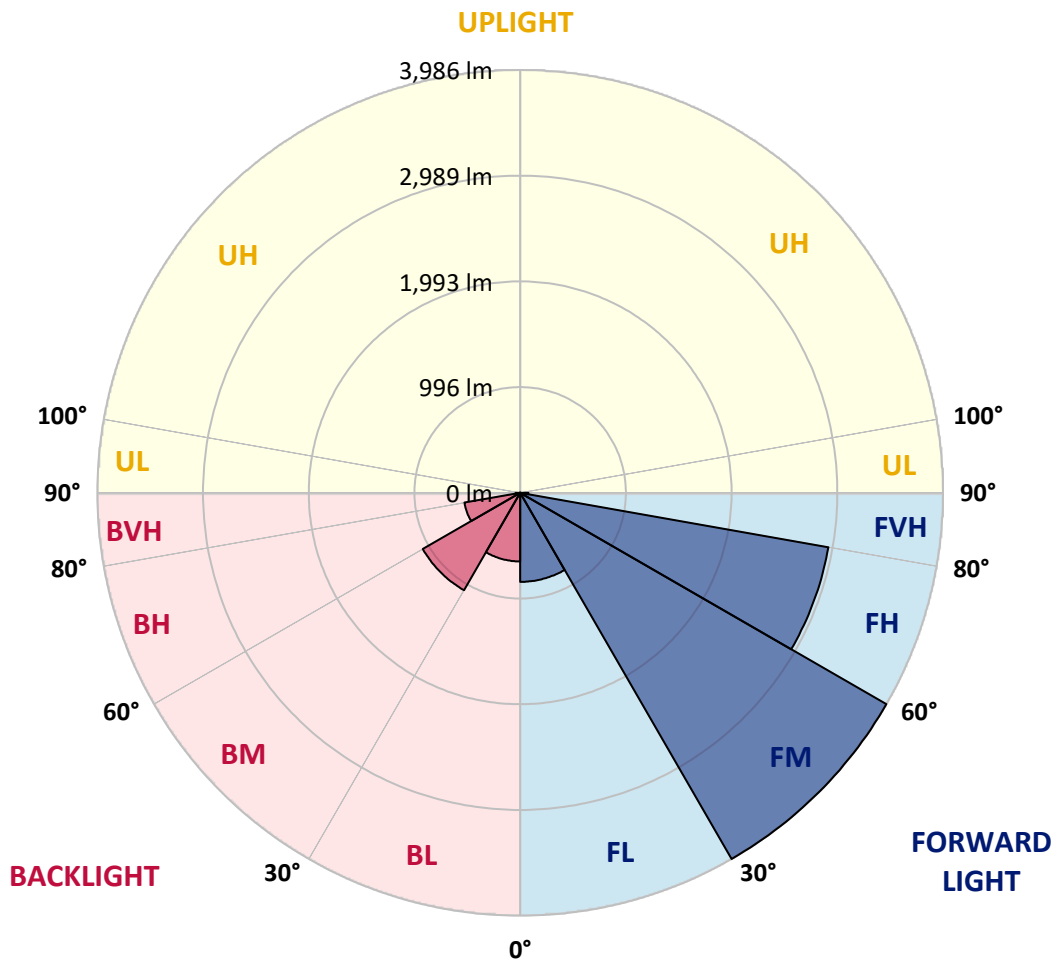
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	839.2	8.3			
FM	(30°-60°)	3985.5	39.3			
FH	(60°-80°)	2950.3	29.1			G2/5000
FVH	(80°-90°)	77.7	0.8			G1/100
BL	(0°-30°)	646.7	6.4	B2/1000		
BM	(30°-60°)	1059.5	10.5	B2/2500		
BH	(60°-80°)	533.6	5.3	B2/1000		G2/1000
BVH	(80°-90°)	42.4	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°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1540.9	1539.9	1535.3	1518.8	1516.9	1515.1	1504.0	1504.9	1502.2	1504.9	1505.8
5°	1583.3	1579.6	1575.0	1557.5	1551.0	1542.7	1526.1	1525.2	1518.8	1520.6	1522.4
7.5°	1635.8	1632.1	1628.4	1608.1	1601.7	1586.9	1561.1	1548.2	1542.7	1544.6	1547.3
10°	1706.8	1700.3	1694.8	1665.3	1655.1	1630.3	1598.9	1576.8	1569.4	1572.2	1579.6
12.5°	1787.9	1779.6	1770.3	1739.9	1726.1	1687.4	1650.5	1622.0	1610.9	1617.4	1622.9
15°	1871.7	1867.1	1863.4	1827.5	1808.1	1765.7	1719.7	1683.7	1673.6	1679.1	1681.9
17.5°	1982.3	1979.5	1973.1	1936.2	1899.4	1850.5	1790.6	1752.8	1742.7	1745.5	1739.0
20°	2103.0	2095.7	2092.0	2050.5	2011.8	1944.5	1875.4	1821.9	1819.2	1820.1	1799.8
22.5°	2238.5	2230.2	2222.8	2185.0	2137.1	2058.8	1968.5	1908.6	1910.4	1912.3	1867.1
25°	2376.7	2370.3	2363.8	2327.9	2280.0	2194.3	2085.5	2018.2	2017.3	2018.2	1955.6
27.5°	2521.4	2514.1	2513.1	2483.6	2435.7	2348.2	2222.8	2154.6	2154.6	2151.0	2056.0
30°	2650.4	2657.8	2657.8	2641.2	2596.1	2508.5	2390.6	2322.4	2331.6	2324.2	2203.5
32.5°	2791.4	2789.6	2802.5	2789.6	2752.7	2671.6	2573.0	2529.7	2545.4	2569.3	2448.6
35°	2873.5	2886.4	2918.6	2937.1	2919.5	2853.2	2781.3	2814.5	2835.7	2943.5	2798.8
37.5°	2968.4	2979.4	3023.7	3068.8	3076.2	3040.3	3040.3	3149.0	3190.5	3331.5	3162.8
40°	3033.8	3044.9	3092.8	3145.3	3217.2	3242.1	3306.6	3475.3	3534.2	3629.2	3433.8
42.5°	2995.1	3000.6	3103.9	3232.0	3337.9	3457.7	3560.0	3773.8	3830.1	3896.4	3656.8
45°	2926.9	2937.1	3051.3	3257.8	3440.2	3678.0	3807.0	4054.9	4119.4	4113.0	3828.2
47.5°	2851.3	2867.0	2994.2	3224.6	3527.8	3868.8	4032.8	4290.8	4327.7	4281.6	3947.1
50°	2767.5	2794.2	2929.7	3191.4	3591.4	4035.6	4200.5	4467.8	4487.1	4393.1	4051.2
52.5°	2671.6	2689.1	2839.4	3127.8	3635.6	4146.2	4334.2	4599.6	4607.9	4531.4	4160.9
55°	2538.9	2554.6	2721.4	3043.0	3642.1	4211.6	4419.9	4740.6	4768.2	4693.6	4260.4
57.5°	2396.1	2415.4	2586.9	2920.5	3583.1	4238.3	4523.1	4922.1	4975.6	4868.7	4340.6
60°	2230.2	2255.1	2428.3	2771.2	3467.0	4279.8	4715.7	5186.6	5253.0	5066.8	4417.1
62.5°	2057.9	2071.7	2231.1	2564.7	3286.3	4301.0	4890.8	5488.9	5552.5	5253.9	4453.0
65°	1815.5	1837.6	1979.5	2316.8	3032.0	4209.7	4972.8	5699.9	5746.0	5405.9	4418.0
67.5°	1558.4	1558.4	1679.1	2020.1	2692.8	3968.3	4939.6	5801.3	5856.6	5512.8	4307.4
69°	1380.5	1394.3	1486.5	1797.1	2444.0	3753.6	4903.7	5894.4	5939.5	5478.7	4180.3
70°	1244.1	1256.1	1349.2	1634.9	2258.8	3584.0	4826.3	5852.9	5886.1	5373.7	4046.6
72.5°	915.1	925.3	989.8	1139.1	1698.5	2891.9	4351.7	5291.7	5311.9	4832.7	3570.2
75°	623.9	629.4	678.3	769.5	990.7	2021.9	3555.4	4469.6	4529.5	4191.3	2923.2
77.5°	215.6	232.2	261.7	353.9	423.9	794.4	2409.9	3522.3	3611.6	3245.8	2045.0
80°	73.7	72.8	140.1	181.5	223.0	364.9	762.1	1476.4	1560.2	1338.1	736.3
82.5°	55.3	57.1	93.1	100.5	68.2	134.5	296.7	451.6	494.9	432.2	305.0
85°	35.0	34.1	41.5	43.3	31.3	57.1	71.9	72.8	75.6	65.4	66.4
87.5°	19.4	19.4	18.4	15.7	8.3	7.4	6.5	6.5	5.5	5.5	5.5
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°	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0	1516.0
2.5°	1501.2	1514.1	1516.9	1520.6	1529.8	1541.8	1558.4	1558.4	1564.8	1584.2	1590.6
5°	1522.4	1538.1	1558.4	1579.6	1604.5	1631.2	1657.9	1667.1	1680.0	1705.8	1711.4
7.5°	1554.7	1572.2	1607.2	1635.8	1657.0	1683.7	1705.8	1709.5	1726.1	1750.1	1754.7
10°	1587.9	1603.5	1638.6	1653.3	1681.9	1711.4	1722.4	1727.9	1741.8	1760.2	1757.4
12.5°	1633.0	1637.6	1662.5	1672.7	1686.5	1704.9	1710.4	1710.4	1718.7	1748.2	1749.1
15°	1677.3	1677.3	1680.9	1675.4	1677.3	1686.5	1687.4	1675.4	1684.6	1699.4	1693.9
17.5°	1724.3	1711.4	1694.8	1670.8	1649.6	1648.7	1629.3	1600.8	1592.5	1613.7	1612.8
20°	1768.5	1746.4	1706.8	1652.4	1622.9	1583.3	1534.4	1517.8	1516.9	1520.6	1517.8
22.5°	1826.6	1781.4	1709.5	1634.9	1553.8	1491.1	1450.6	1394.3	1392.5	1384.2	1371.3
25°	1895.7	1831.2	1721.5	1615.5	1497.6	1416.5	1318.8	1258.9	1224.8	1232.1	1210.0
27.5°	1985.1	1906.7	1726.1	1573.1	1420.1	1282.8	1164.9	1087.5	1058.0	1045.1	1030.3
30°	2107.6	1986.9	1759.3	1537.2	1324.3	1142.8	998.1	885.6	843.2	854.3	856.1
32.5°	2303.9	2139.0	1776.8	1466.2	1213.7	989.8	801.8	680.1	655.2	686.6	694.9
35°	2645.8	2374.9	1818.3	1423.8	1087.5	811.0	596.3	546.5	552.0	578.7	580.6
37.5°	2982.2	2673.5	1946.4	1331.7	936.3	600.9	462.6	435.9	462.6	496.7	501.3
40°	3218.1	2906.6	2059.7	1240.4	724.4	435.0	353.0	320.7	359.4	413.8	423.9
42.5°	3427.3	3091.9	2139.9	1114.2	495.8	310.6	253.4	261.7	318.9	358.5	367.7
45°	3577.5	3219.1	2195.2	950.1	316.1	235.0	226.7	253.4	307.8	339.1	341.9
47.5°	3672.5	3293.7	2154.6	748.3	237.8	222.1	223.0	257.1	311.5	346.5	345.6
50°	3758.2	3333.3	2022.9	593.5	225.8	212.9	227.6	267.3	323.5	355.7	353.9
52.5°	3849.4	3372.0	1862.5	465.4	216.6	208.3	233.2	273.7	323.5	343.7	341.0
55°	3927.7	3406.1	1741.8	374.2	210.1	207.4	238.7	283.8	321.6	329.9	324.4
57.5°	3968.3	3348.1	1610.9	314.3	203.7	207.4	242.4	282.0	332.7	359.4	353.9
60°	3946.2	3293.7	1504.9	292.1	194.5	206.4	244.2	302.3	408.3	433.1	431.3
62.5°	3905.6	3233.8	1356.6	262.6	184.3	208.3	243.3	320.7	470.0	461.7	438.7
65°	3822.7	3114.0	1153.8	228.6	174.2	212.0	243.3	361.3	410.1	400.9	390.7
67.5°	3645.7	2855.0	923.4	196.3	163.1	200.9	239.6	343.7	353.0	329.0	317.0
69°	3447.6	2608.1	730.8	178.8	156.7	195.4	238.7	331.8	347.4	321.6	307.8
70°	3292.8	2415.4	590.7	165.9	150.2	193.5	237.8	323.5	344.7	316.1	301.4
72.5°	2742.6	1951.9	309.6	133.6	128.1	176.0	229.5	316.1	345.6	303.2	282.0
75°	2154.6	1388.8	205.5	102.3	98.6	153.9	210.1	304.1	325.3	272.8	240.5
77.5°	1328.9	608.2	141.9	71.0	71.9	119.8	180.6	271.9	328.1	275.6	234.1
80°	386.1	235.0	90.3	47.9	44.2	71.0	141.9	234.1	311.5	282.9	255.3
82.5°	223.0	153.0	60.8	30.4	26.7	32.3	89.4	181.5	274.6	259.0	264.5
85°	50.7	42.4	22.1	14.7	14.7	18.4	30.4	105.1	189.8	222.1	250.7
87.5°	5.5	5.5	5.5	5.5	5.5	4.6	5.5	28.6	82.9	118.0	137.3
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)