

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: P233526

Luminaire Tested: **VERD-C029-D-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233526
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-T3-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1030mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9863 lumens
Efficiency: N/A
Efficacy: 121.8 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

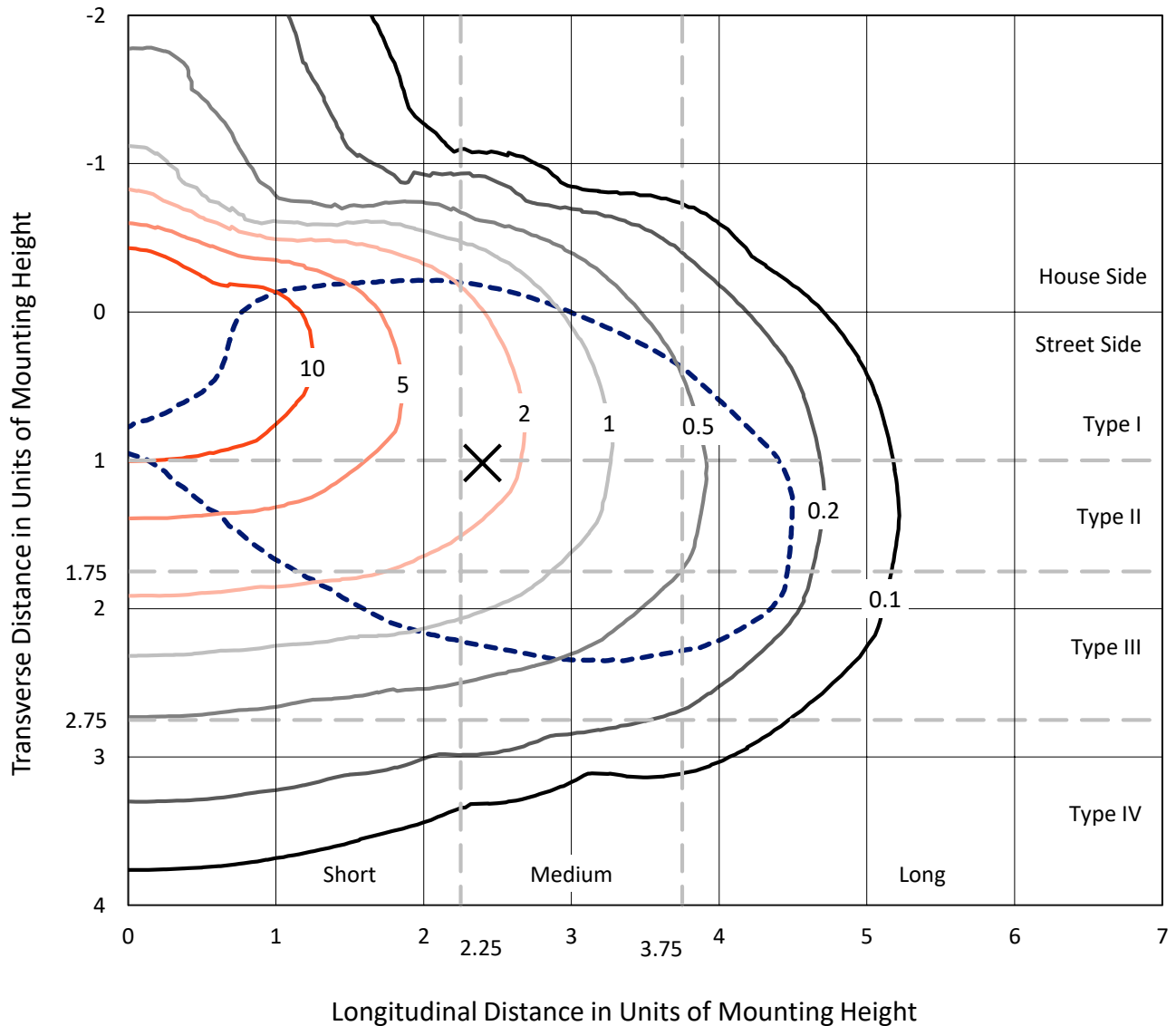


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

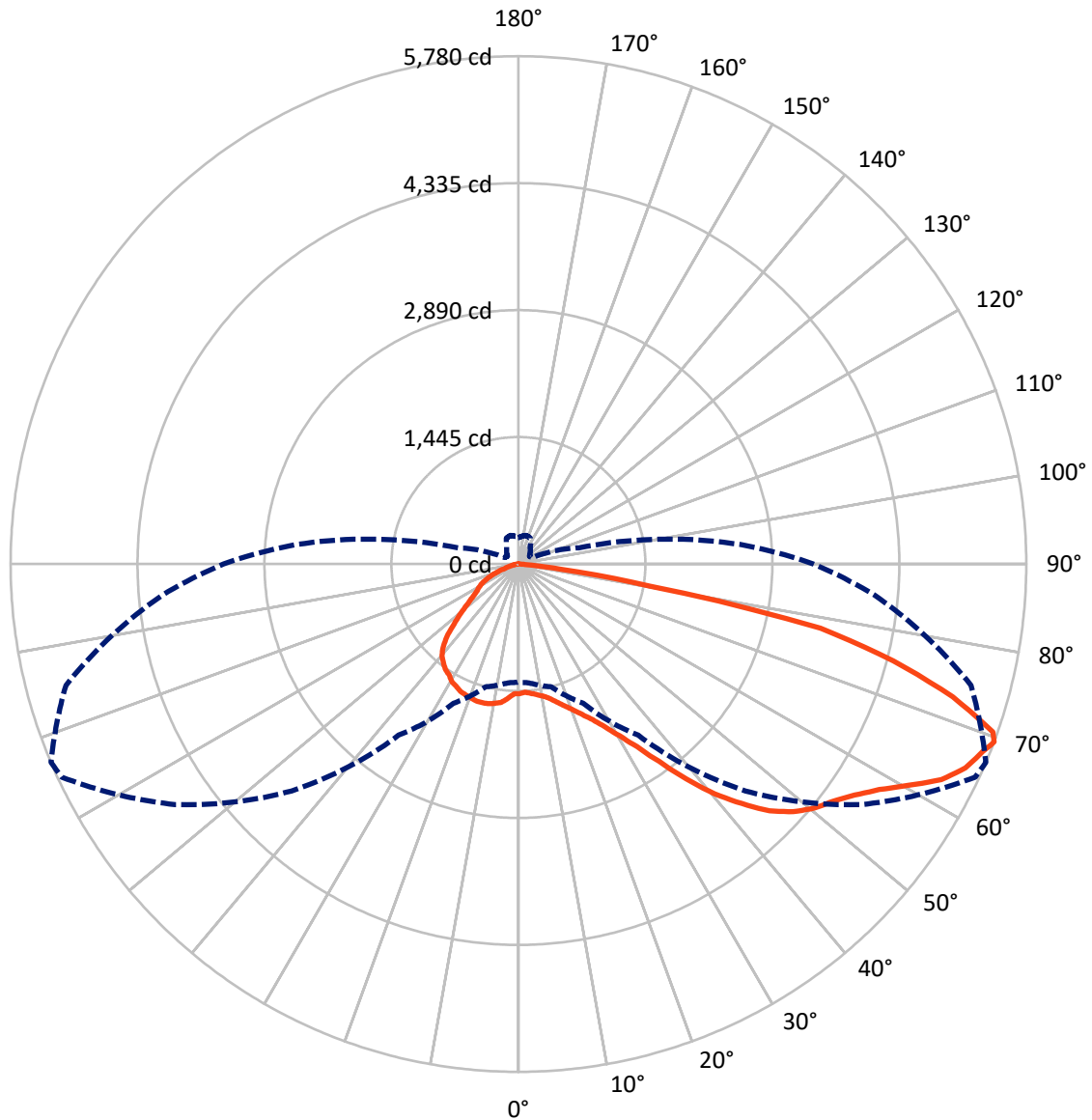


Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Medium - Semi-Cutoff

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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	2221.0	0.0	2221.0
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	7642.0	0.0	7642.0
	% Fixture	77.5	0.0	77.5
Total	Lumens	9863.0	0.0	9863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	1.5
10°-20°	476.2	4.8
20°-30°	820.4	8.3
30°-40°	1220.2	12.4
40°-50°	1680.5	17.0
50°-60°	2008.9	20.4
60°-70°	2120.0	21.5
70°-80°	1270.4	12.9
80°-90°	116.9	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°	9863.0	100.0
0°-180°	9863.0	100.0

Coefficient of Utilization



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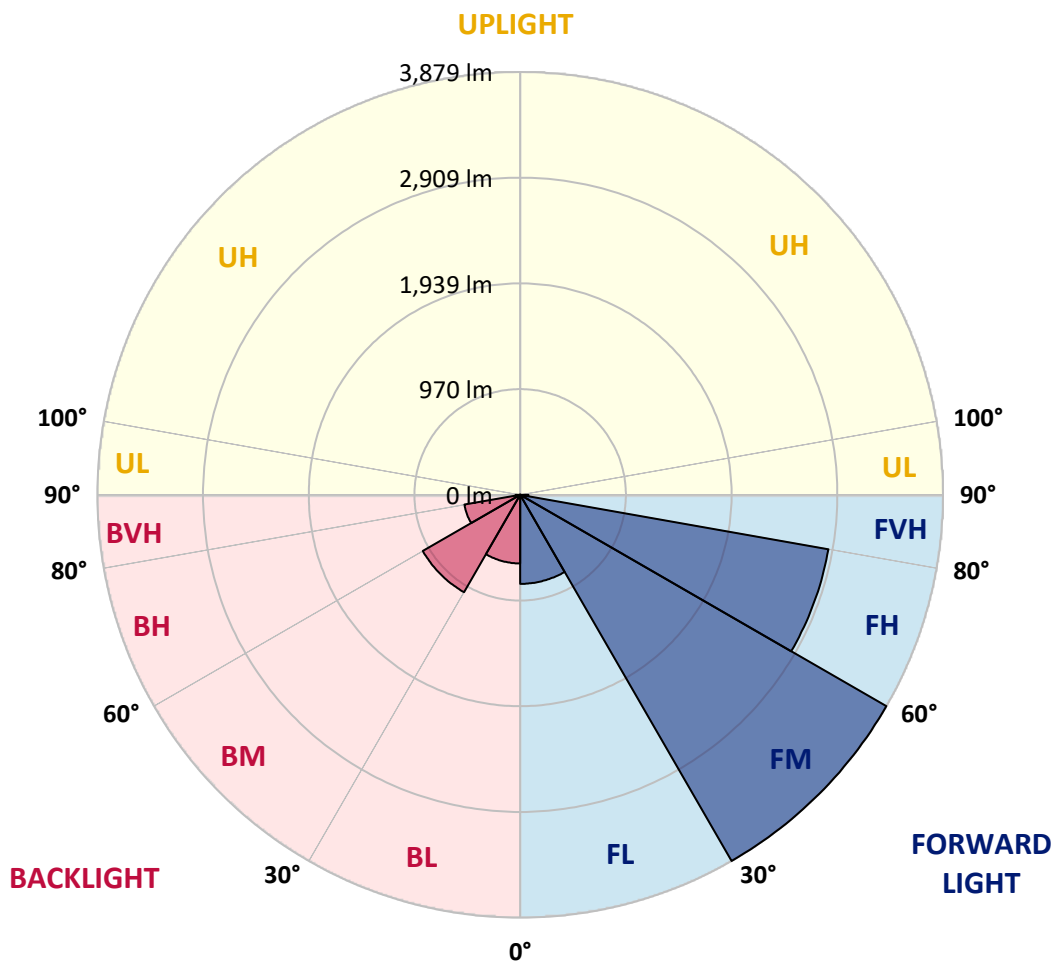
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	816.7	8.3			
FM (30°-60°)	3878.6	39.3			
FH (60°-80°)	2871.1	29.1			G2/5000
FVH (80°-90°)	75.6	0.8			G1/100
BL (0°-30°)	629.3	6.4	B2/1000		
BM (30°-60°)	1031.1	10.5	B2/2500		
BH (60°-80°)	519.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	41.3	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°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3
2.5°	1499.5	1498.6	1494.1	1478.0	1476.2	1474.4	1463.6	1464.5	1461.8	1464.5	1465.4
5°	1540.8	1537.2	1532.7	1515.7	1509.4	1501.3	1485.2	1484.3	1478.0	1479.8	1481.6
7.5°	1591.9	1588.3	1584.7	1565.0	1558.7	1544.4	1519.2	1506.7	1501.3	1503.1	1505.8
10°	1660.9	1654.7	1649.3	1620.6	1610.7	1586.5	1556.0	1534.5	1527.3	1530.0	1537.2
12.5°	1739.9	1731.8	1722.8	1693.2	1679.8	1642.1	1606.2	1578.4	1567.7	1574.0	1579.3
15°	1821.5	1817.0	1813.4	1778.4	1759.6	1718.3	1673.5	1638.5	1628.7	1634.0	1636.7
17.5°	1929.1	1926.4	1920.1	1884.3	1848.4	1800.9	1742.6	1705.8	1695.9	1698.6	1692.3
20°	2046.6	2039.4	2035.8	1995.5	1957.8	1892.3	1825.1	1773.1	1770.4	1771.3	1751.5
22.5°	2178.4	2170.4	2163.2	2126.4	2079.8	2003.5	1915.6	1857.4	1859.1	1860.9	1817.0
25°	2312.9	2306.7	2300.4	2265.4	2218.8	2135.4	2029.5	1964.1	1963.2	1964.1	1903.1
27.5°	2453.8	2446.6	2445.7	2417.0	2370.3	2285.1	2163.2	2096.8	2096.8	2093.2	2000.8
30°	2579.3	2586.5	2586.5	2570.3	2526.4	2441.2	2326.4	2260.0	2269.0	2261.8	2144.3
32.5°	2716.5	2714.7	2727.3	2714.7	2678.9	2599.9	2504.0	2461.8	2477.1	2500.4	2382.9
35°	2796.3	2808.9	2840.3	2858.2	2841.2	2776.6	2706.7	2738.9	2759.6	2864.5	2723.7
37.5°	2888.7	2899.5	2942.5	2986.5	2993.7	2958.7	2958.7	3064.5	3104.9	3242.1	3078.0
40°	2952.4	2963.2	3009.8	3060.9	3130.9	3155.1	3217.9	3382.0	3439.4	3531.8	3341.6
42.5°	2914.7	2920.1	3020.6	3145.2	3248.4	3364.9	3464.5	3672.6	3727.3	3791.8	3558.7
45°	2848.4	2858.2	2969.4	3170.3	3347.9	3579.3	3704.8	3946.1	4008.9	4002.6	3725.5
47.5°	2774.8	2790.1	2913.8	3138.0	3433.1	3764.9	3924.6	4175.7	4211.6	4166.7	3841.2
50°	2693.2	2719.2	2851.1	3105.8	3495.0	3927.3	4087.8	4347.9	4366.7	4275.2	3942.5
52.5°	2599.9	2617.0	2763.2	3043.9	3538.0	4034.9	4217.8	4476.1	4484.2	4409.8	4049.2
55°	2470.8	2486.0	2648.4	2961.4	3544.3	4098.6	4301.2	4613.3	4640.2	4567.6	4146.1
57.5°	2331.8	2350.6	2517.4	2842.1	3486.9	4124.6	4401.7	4790.0	4842.0	4738.0	4224.1
60°	2170.4	2194.6	2363.2	2696.8	3373.9	4164.9	4589.1	5047.4	5112.0	4930.8	4298.6
62.5°	2002.6	2016.1	2171.2	2495.9	3198.1	4185.6	4759.5	5341.6	5403.5	5112.9	4333.5
65°	1766.8	1788.3	1926.4	2254.7	2950.6	4096.8	4839.3	5547.0	5591.8	5260.9	4299.5
67.5°	1516.6	1516.6	1634.0	1965.9	2620.6	3861.8	4807.1	5645.6	5699.4	5364.9	4191.8
69°	1343.5	1356.9	1446.6	1748.8	2378.4	3652.8	4772.1	5736.2	5780.1	5331.7	4068.1
70°	1210.7	1222.4	1313.0	1591.0	2198.2	3487.8	4696.8	5695.8	5728.1	5229.5	3938.0
72.5°	890.6	900.4	963.2	1108.5	1652.9	2814.3	4234.9	5149.7	5169.4	4703.0	3474.4
75°	607.2	612.5	660.1	748.9	964.1	1967.7	3460.0	4349.7	4408.0	4078.8	2844.8
77.5°	209.9	226.0	254.7	344.4	412.5	773.1	2345.2	3427.7	3514.7	3158.7	1990.1
80°	71.7	70.9	136.3	176.7	217.0	355.1	741.7	1436.7	1518.3	1302.2	716.6
82.5°	53.8	55.6	90.6	97.8	66.4	130.9	288.8	439.5	481.6	420.6	296.9
85°	34.1	33.2	40.4	42.2	30.5	55.6	70.0	70.9	73.5	63.7	64.6
87.5°	18.8	18.8	17.9	15.2	8.1	7.2	6.3	6.3	5.4	5.4	5.4
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°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3
2.5°	1461.0	1473.5	1476.2	1479.8	1488.8	1500.4	1516.6	1516.6	1522.8	1541.7	1547.9
5°	1481.6	1496.8	1516.6	1537.2	1561.4	1587.4	1613.4	1622.4	1634.9	1660.1	1665.4
7.5°	1513.0	1530.0	1564.1	1591.9	1612.5	1638.5	1660.1	1663.6	1679.8	1703.1	1707.6
10°	1545.3	1560.5	1594.6	1608.9	1636.7	1665.4	1676.2	1681.6	1695.0	1713.0	1710.3
12.5°	1589.2	1593.7	1617.9	1627.8	1641.2	1659.2	1664.5	1664.5	1672.6	1701.3	1702.2
15°	1632.2	1632.2	1635.8	1630.5	1632.2	1641.2	1642.1	1630.5	1639.4	1653.8	1648.4
17.5°	1678.0	1665.4	1649.3	1626.0	1605.3	1604.4	1585.6	1557.8	1549.7	1570.4	1569.5
20°	1721.0	1699.5	1660.9	1608.0	1579.3	1540.8	1493.2	1477.1	1476.2	1479.8	1477.1
22.5°	1777.5	1733.6	1663.6	1591.0	1512.1	1451.1	1411.6	1356.9	1355.1	1347.1	1334.5
25°	1844.8	1782.0	1675.3	1572.2	1457.4	1378.4	1283.4	1225.1	1191.9	1199.1	1177.6
27.5°	1931.8	1855.6	1679.8	1530.9	1382.0	1248.4	1133.6	1058.3	1029.6	1017.0	1002.7
30°	2051.1	1933.6	1712.1	1495.9	1288.8	1112.1	971.3	861.9	820.6	831.4	833.2
32.5°	2242.1	2081.6	1729.1	1426.9	1181.1	963.2	780.3	661.9	637.7	668.1	676.2
35°	2574.8	2311.2	1769.5	1385.6	1058.3	789.2	580.3	531.8	537.2	563.2	565.0
37.5°	2902.2	2601.7	1894.1	1295.9	911.2	584.7	450.2	424.2	450.2	483.4	487.9
40°	3131.8	2828.6	2004.4	1207.1	704.9	423.3	343.5	312.1	349.8	402.7	412.5
42.5°	3335.3	3008.9	2082.5	1084.3	482.5	302.2	246.6	254.7	310.3	348.9	357.8
45°	3481.5	3132.7	2136.3	924.6	307.6	228.7	220.6	246.6	299.5	330.0	332.7
47.5°	3573.9	3205.3	2096.8	728.2	231.4	216.1	217.0	250.2	303.1	337.2	336.3
50°	3657.3	3243.9	1968.6	577.6	219.7	207.2	221.5	260.1	314.8	346.2	344.4
52.5°	3746.1	3281.5	1812.5	452.9	210.8	202.7	226.9	266.4	314.8	334.5	331.8
55°	3822.3	3314.7	1695.0	364.1	204.5	201.8	232.3	276.2	313.0	321.1	315.7
57.5°	3861.8	3258.2	1567.7	305.8	198.2	201.8	235.9	274.4	323.8	349.8	344.4
60°	3840.3	3205.3	1464.5	284.3	189.2	200.9	237.7	294.2	397.3	421.5	419.7
62.5°	3800.8	3147.0	1320.1	255.6	179.4	202.7	236.8	312.1	457.4	449.3	426.9
65°	3720.1	3030.4	1122.8	222.4	169.5	206.3	236.8	351.6	399.1	390.1	380.3
67.5°	3547.9	2778.4	898.6	191.0	158.7	195.5	233.2	334.5	343.5	320.2	308.5
69°	3355.1	2538.1	711.2	174.0	152.5	190.1	232.3	322.9	338.1	313.0	299.5
70°	3204.4	2350.6	574.9	161.4	146.2	188.3	231.4	314.8	335.4	307.6	293.3
72.5°	2669.0	1899.5	301.3	130.0	124.7	171.3	223.3	307.6	336.3	295.1	274.4
75°	2096.8	1351.5	200.0	99.5	96.0	149.8	204.5	296.0	316.6	265.5	234.1
77.5°	1293.2	591.9	138.1	69.1	70.0	116.6	175.8	264.6	319.3	268.2	227.8
80°	375.8	228.7	87.9	46.6	43.0	69.1	138.1	227.8	303.1	275.3	248.4
82.5°	217.0	148.9	59.2	29.6	26.0	31.4	87.0	176.7	267.3	252.0	257.4
85°	49.3	41.3	21.5	14.3	14.3	17.9	29.6	102.2	184.7	216.1	243.9
87.5°	5.4	5.4	5.4	5.4	5.4	4.5	5.4	27.8	80.7	114.8	133.6
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)