

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: P233869

Luminaire Tested: **VERD-G-C028-D-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T4-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 885mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13025 lumens
Efficiency: N/A
Efficacy: 126.5 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 - G3

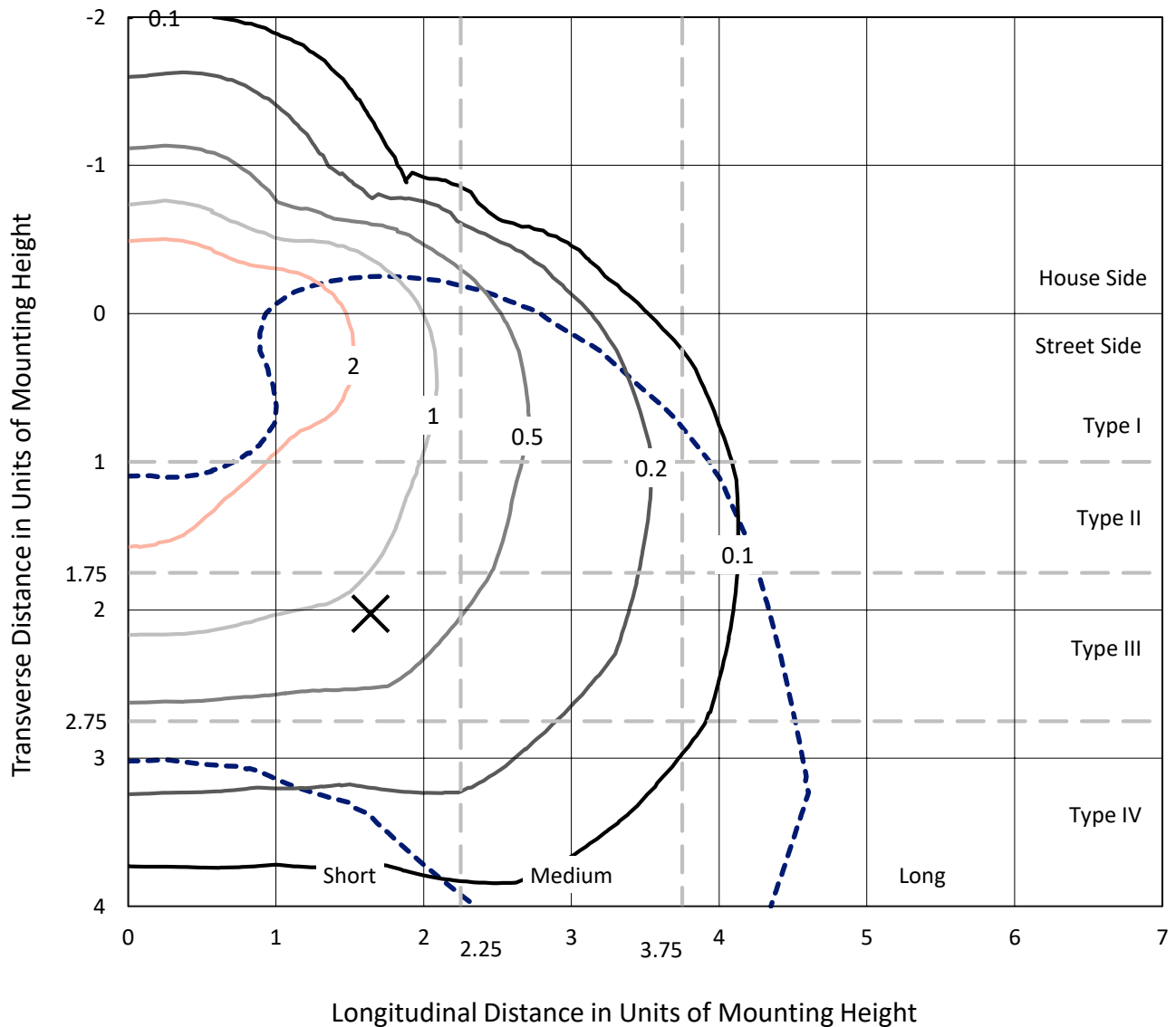
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

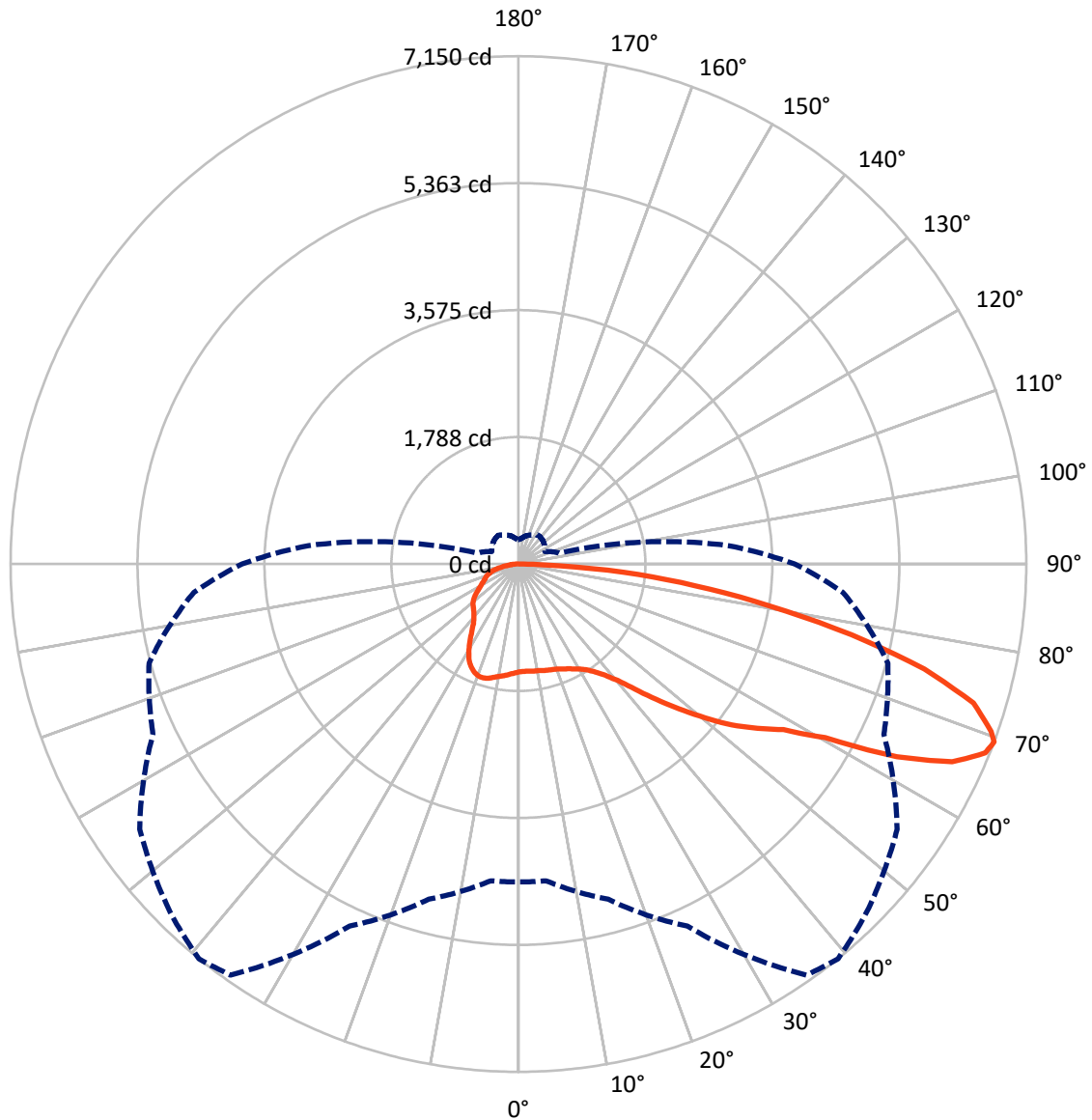


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3053.3	0.0	3053.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	9971.7	0.0	9971.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	13025.0	0.0	13025.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.1
10°-20°	455.7	3.5
20°-30°	767.1	5.9
30°-40°	1111.4	8.5
40°-50°	1796.5	13.8
50°-60°	2630.0	20.2
60°-70°	3291.8	25.3
70°-80°	2353.3	18.1
80°-90°	471.8	3.6
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°	13025.0	100.0
0°-180°	13025.0	100.0



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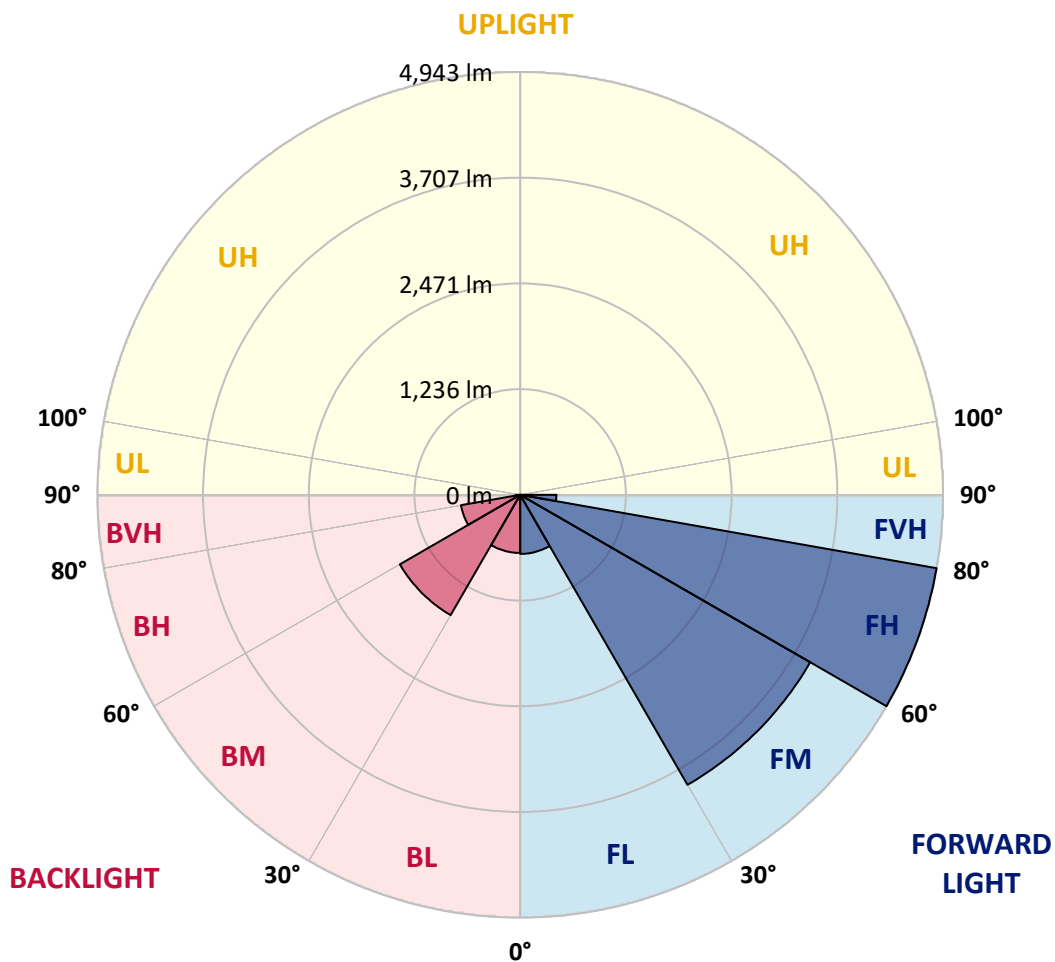
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.0	5.3			
FM	(30°-60°)	3914.2	30.1			
FH	(60°-80°)	4942.9	37.9			G2/5000
FVH	(80°-90°)	423.6	3.3			G3/500
BL	(0°-30°)	679.2	5.2	B2/1000		
BM	(30°-60°)	1623.7	12.5	B2/2500		
BH	(60°-80°)	702.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	48.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2
2.5°	1543.6	1541.2	1536.4	1517.2	1514.8	1513.6	1516.0	1508.8	1507.6	1510.0	1507.6
5°	1544.8	1542.4	1536.4	1519.6	1517.2	1514.8	1516.0	1510.0	1511.2	1517.2	1517.2
7.5°	1547.2	1544.8	1538.8	1520.8	1525.6	1523.2	1528.0	1519.6	1519.6	1524.4	1525.6
10°	1541.2	1540.0	1536.4	1523.2	1530.4	1525.6	1530.4	1531.6	1536.4	1540.0	1538.8
12.5°	1525.6	1525.6	1525.6	1519.6	1540.0	1538.8	1547.2	1555.6	1567.6	1573.6	1577.2
15°	1516.0	1514.8	1523.2	1522.0	1547.2	1550.8	1565.2	1586.8	1604.8	1620.4	1625.2
17.5°	1525.6	1525.6	1536.4	1534.0	1559.2	1561.6	1577.2	1608.4	1638.4	1668.4	1681.6
20°	1536.4	1537.6	1550.8	1554.4	1578.4	1577.2	1592.8	1631.2	1672.0	1716.4	1739.2
22.5°	1570.0	1568.8	1579.6	1572.4	1600.0	1604.8	1618.0	1651.6	1709.2	1765.6	1802.8
25°	1595.2	1598.8	1609.6	1604.8	1627.6	1633.6	1655.2	1687.6	1756.0	1823.2	1889.2
27.5°	1619.2	1626.4	1634.8	1633.6	1664.8	1672.0	1688.8	1739.2	1818.4	1898.9	1991.3
30°	1655.2	1652.8	1658.8	1669.6	1710.4	1715.2	1735.6	1796.8	1892.8	1997.3	2120.9
32.5°	1703.2	1700.8	1706.8	1716.4	1765.6	1777.6	1805.2	1871.2	1992.5	2118.5	2269.7
35°	1778.8	1784.8	1789.6	1801.6	1849.6	1866.4	1903.7	1987.7	2128.1	2329.8	2545.8
37.5°	2041.7	2028.5	2002.1	1954.1	1967.3	1986.5	2039.3	2159.3	2363.4	2705.4	2903.5
40°	2452.2	2436.6	2353.8	2213.3	2149.7	2154.5	2206.1	2369.4	2647.8	3147.1	3329.6
42.5°	2838.7	2819.5	2721.0	2545.8	2419.8	2405.4	2410.2	2598.6	2959.9	3588.9	3686.1
45°	3203.6	3213.2	3063.1	2928.7	2784.7	2718.6	2698.2	2838.7	3306.8	3971.7	4001.7
47.5°	3552.8	3560.0	3390.8	3261.2	3121.9	3045.1	3005.5	3114.7	3626.1	4281.4	4253.8
50°	3909.3	3928.5	3696.9	3586.4	3458.0	3402.8	3364.4	3436.4	3978.9	4577.9	4492.7
52.5°	4412.2	4331.8	4028.2	3872.1	3780.9	3764.1	3724.5	3783.3	4353.4	4839.5	4661.9
55°	4971.6	4799.9	4480.7	4208.2	4082.2	4082.2	4047.4	4115.8	4739.9	5035.2	4799.9
57.5°	5152.8	5169.6	5059.2	4762.7	4424.2	4397.8	4364.2	4457.9	5071.2	5210.4	4851.5
60°	5469.7	5516.5	5601.7	5354.5	5187.6	4963.2	4759.1	4809.5	5356.9	5354.5	4906.8
62.5°	5626.9	5671.3	5937.8	5804.6	5961.8	5977.4	5595.7	5206.8	5568.1	5426.5	4933.2
65°	5478.1	5509.3	5864.6	6039.8	6495.9	6713.2	6524.7	5741.0	5679.7	5396.5	4834.7
67.5°	4989.6	5048.4	5342.5	5876.6	6972.5	7093.7	6917.2	6474.3	5727.8	5406.1	4755.5
69°	4475.9	4477.1	4885.2	5625.7	7066.1	7150.1	6934.0	6509.1	5677.3	5383.3	4586.3
70°	4186.6	4216.6	4519.1	5408.5	7031.3	7058.9	6893.2	6507.9	5642.5	5376.1	4425.4
72.5°	3267.2	3251.6	3552.8	4522.7	6637.6	6698.8	6516.3	6324.3	5613.7	5066.4	3743.7
75°	2284.1	2332.2	2627.4	3426.8	5719.4	5903.0	5903.0	6075.8	5167.2	4329.4	2706.6
77.5°	1699.6	1706.8	1943.3	2617.8	4601.9	4792.7	4968.0	5113.2	4039.0	2965.9	1209.9
80°	1151.1	1161.9	1377.9	1931.3	3410.0	3585.2	3862.5	3518.0	2403.0	1026.2	138.0
82.5°	725.0	739.4	911.0	1356.3	2430.6	2509.8	2595.0	1986.5	800.6	118.8	87.6
85°	430.9	433.3	549.7	866.6	1482.4	1487.2	1395.9	914.6	214.9	70.8	55.2
87.5°	180.0	189.6	240.1	384.1	434.5	343.3	213.7	73.2	32.4	28.8	19.2
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°	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2	1517.2
2.5°	1500.4	1513.6	1511.2	1514.8	1519.6	1529.2	1540.0	1535.2	1541.2	1554.4	1554.4
5°	1513.6	1524.4	1528.0	1535.2	1541.2	1550.8	1558.0	1555.6	1568.8	1588.0	1588.0
7.5°	1524.4	1532.8	1544.8	1553.2	1559.2	1578.4	1585.6	1580.8	1590.4	1613.2	1614.4
10°	1540.0	1548.4	1566.4	1574.8	1586.8	1596.4	1606.0	1604.8	1614.4	1634.8	1638.4
12.5°	1578.4	1584.4	1609.6	1621.6	1621.6	1633.6	1626.4	1614.4	1619.2	1631.2	1633.6
15°	1628.8	1637.2	1669.6	1675.6	1669.6	1672.0	1655.2	1616.8	1597.6	1601.2	1602.4
17.5°	1686.4	1700.8	1738.0	1729.6	1722.4	1704.4	1661.2	1603.6	1546.0	1524.4	1528.0
20°	1747.6	1765.6	1808.8	1790.8	1764.4	1717.6	1648.0	1549.6	1460.7	1409.1	1406.7
22.5°	1818.4	1841.2	1882.0	1850.8	1792.0	1710.4	1603.6	1483.6	1370.7	1290.3	1285.5
25°	1915.7	1940.9	1955.3	1892.8	1796.8	1684.0	1540.0	1393.5	1251.9	1155.9	1148.7
27.5°	2026.1	2039.3	2010.5	1916.9	1774.0	1627.6	1460.7	1279.5	1123.5	1044.2	1033.4
30°	2148.5	2137.7	2047.7	1904.9	1715.2	1538.8	1337.1	1134.3	1009.4	945.8	936.2
32.5°	2290.1	2256.5	2076.5	1871.2	1637.2	1422.3	1202.7	1041.8	942.2	878.6	873.8
35°	2523.0	2427.0	2123.3	1819.6	1534.0	1285.5	1079.1	962.6	884.6	805.4	793.4
37.5°	2860.3	2679.0	2191.7	1771.6	1422.3	1153.5	985.4	899.0	830.6	741.8	725.0
40°	3210.8	2975.5	2304.5	1718.8	1317.9	1056.3	933.8	872.6	805.4	721.4	698.6
42.5°	3531.2	3257.6	2436.6	1652.8	1208.7	978.2	908.6	865.4	798.2	719.0	701.0
45°	3821.7	3522.8	2572.2	1577.2	1088.7	915.8	888.2	852.2	783.8	708.2	693.8
47.5°	4066.6	3748.5	2709.0	1489.6	973.4	877.4	866.6	828.2	764.6	691.4	679.4
50°	4269.4	3910.5	2787.1	1397.1	878.6	848.6	835.4	787.4	722.6	654.2	647.0
52.5°	4419.4	4011.4	2857.9	1347.9	804.2	801.8	793.4	746.6	684.2	613.3	598.9
55°	4523.9	4094.2	2826.7	1309.5	725.0	743.0	738.2	709.4	656.6	573.7	561.7
57.5°	4529.9	4101.4	2759.5	1081.5	647.0	672.2	680.6	685.4	626.5	553.3	538.9
60°	4523.9	4048.6	2634.6	793.4	571.3	601.3	632.5	632.5	591.7	519.7	508.9
62.5°	4496.3	3944.1	2344.2	565.3	511.3	550.9	591.7	573.7	538.9	481.3	470.5
65°	4370.2	3770.1	1834.0	460.9	486.1	522.1	541.3	516.1	471.7	411.7	406.9
67.5°	4141.0	3371.6	1061.1	422.5	464.5	496.9	512.5	474.1	432.1	374.5	372.1
69°	3888.9	2968.3	597.7	412.9	451.3	480.1	493.3	451.3	410.5	355.3	344.5
70°	3663.3	2608.2	388.9	404.5	438.1	469.3	478.9	435.7	397.3	340.9	333.7
72.5°	2775.1	1571.2	261.7	369.7	402.1	426.1	440.5	399.7	356.5	300.1	285.7
75°	1516.0	427.3	230.5	316.9	357.7	390.1	393.7	342.1	279.7	222.1	216.1
77.5°	295.3	146.4	198.0	261.7	284.5	322.9	320.5	285.7	242.5	188.4	181.2
80°	111.6	105.6	165.6	187.2	200.4	241.3	255.7	230.5	201.6	128.4	110.4
82.5°	75.6	78.0	123.6	110.4	122.4	142.8	180.0	175.2	159.6	87.6	78.0
85°	52.8	61.2	68.4	46.8	60.0	90.0	118.8	115.2	98.4	61.2	55.2
87.5°	15.6	16.8	19.2	24.0	37.2	67.2	97.2	80.4	54.0	45.6	39.6
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)