

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: P233866

Luminaire Tested: **VERD-G-C029-D-U-T4-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233866  
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-C029-D-U-T4-8027  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13535 lumens  
Efficiency: N/A  
Efficacy: 111.9 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 - G3

Input Watts (W): 121  
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

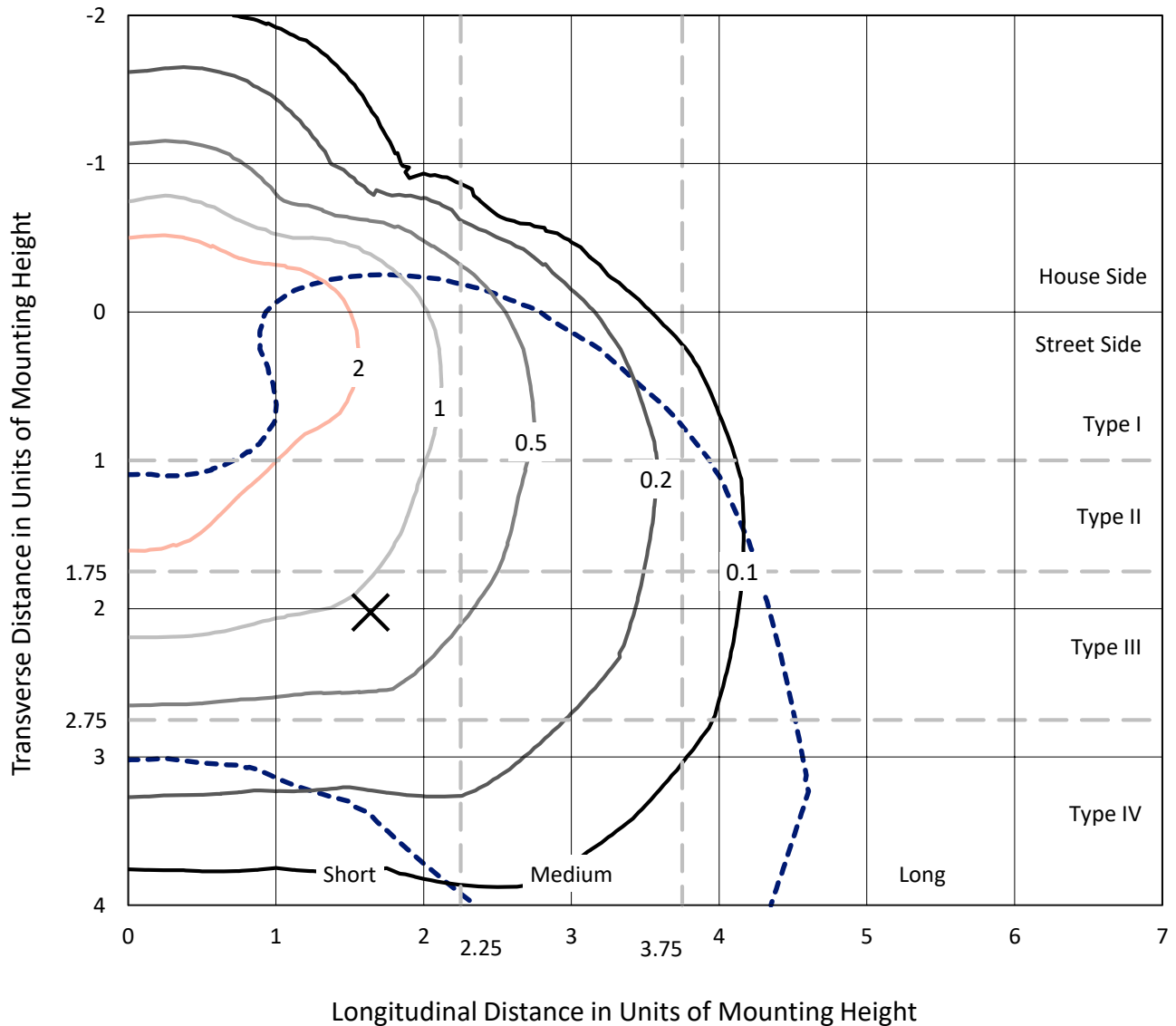


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

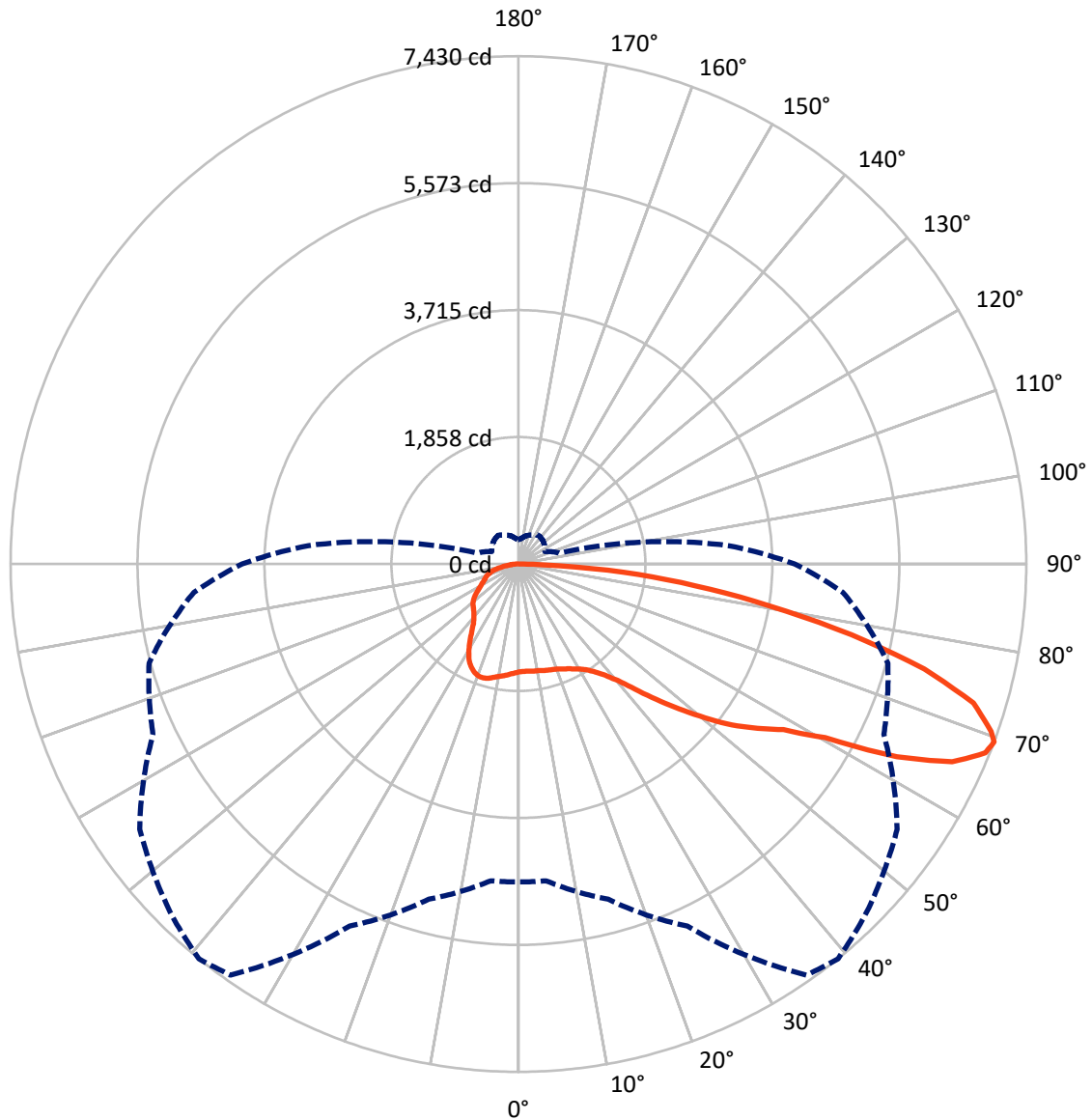


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	3172.9	0.0	3172.9
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	10362.2	0.0	10362.2
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	13535.0	0.0	13535.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.2	1.1
10°-20°	473.5	3.5
20°-30°	797.2	5.9
30°-40°	1154.9	8.5
40°-50°	1866.8	13.8
50°-60°	2733.0	20.2
60°-70°	3420.7	25.3
70°-80°	2445.4	18.1
80°-90°	490.3	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°	13535.0	100.0
0°-180°	13535.0	100.0



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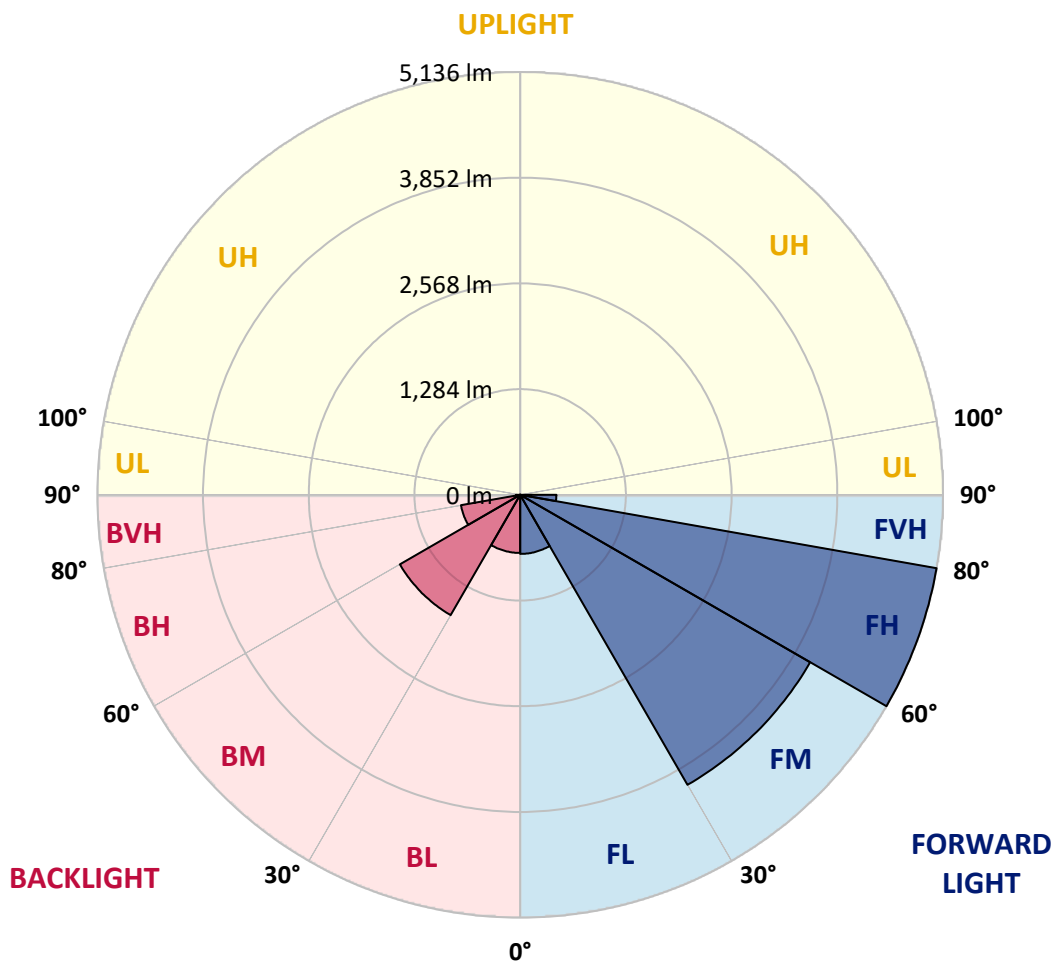
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.0	5.3			
FM	(30°-60°)	4067.4	30.1			
FH	(60°-80°)	5136.5	37.9			G3/7500
FVH	(80°-90°)	440.2	3.3			G3/500
BL	(0°-30°)	705.8	5.2	B2/1000		
BM	(30°-60°)	1687.2	12.5	B2/2500		
BH	(60°-80°)	729.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	50.1	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°	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6
2.5°	1604.0	1601.5	1596.5	1576.6	1574.1	1572.8	1575.3	1567.8	1566.6	1569.1	1566.6
5°	1605.3	1602.8	1596.5	1579.1	1576.6	1574.1	1575.3	1569.1	1570.3	1576.6	1576.6
7.5°	1607.7	1605.3	1599.0	1580.3	1585.3	1582.8	1587.8	1579.1	1579.1	1584.0	1585.3
10°	1601.5	1600.3	1596.5	1582.8	1590.3	1585.3	1590.3	1591.5	1596.5	1600.3	1599.0
12.5°	1585.3	1585.3	1585.3	1579.1	1600.3	1599.0	1607.7	1616.5	1629.0	1635.2	1638.9
15°	1575.3	1574.1	1582.8	1581.6	1607.7	1611.5	1626.5	1648.9	1667.6	1683.8	1688.8
17.5°	1585.3	1585.3	1596.5	1594.0	1620.2	1622.7	1638.9	1671.4	1702.5	1733.7	1747.4
20°	1596.5	1597.8	1611.5	1615.2	1640.2	1638.9	1655.1	1695.1	1737.5	1783.6	1807.3
22.5°	1631.4	1630.2	1641.4	1633.9	1662.6	1667.6	1681.3	1716.3	1776.1	1834.8	1873.4
25°	1657.6	1661.4	1672.6	1667.6	1691.3	1697.6	1720.0	1753.7	1824.8	1894.6	1963.2
27.5°	1682.6	1690.1	1698.8	1697.6	1730.0	1737.5	1754.9	1807.3	1889.6	1973.2	2069.2
30°	1720.0	1717.5	1723.7	1735.0	1777.4	1782.4	1803.6	1867.2	1967.0	2075.5	2203.9
32.5°	1769.9	1767.4	1773.6	1783.6	1834.8	1847.2	1875.9	1944.5	2070.5	2201.5	2358.6
35°	1848.5	1854.7	1859.7	1872.2	1922.1	1939.5	1978.2	2065.5	2211.4	2421.0	2645.5
37.5°	2121.6	2107.9	2080.5	2030.6	2044.3	2064.3	2119.1	2243.9	2455.9	2811.4	3017.2
40°	2548.2	2532.0	2445.9	2300.0	2233.9	2238.9	2292.5	2462.1	2751.5	3270.4	3460.0
42.5°	2949.8	2929.9	2827.6	2645.5	2514.5	2499.6	2504.5	2700.4	3075.8	3729.4	3830.4
45°	3329.0	3339.0	3183.1	3043.4	2893.7	2825.1	2803.9	2949.8	3436.3	4127.3	4158.4
47.5°	3692.0	3699.4	3523.6	3388.9	3244.2	3164.4	3123.2	3236.7	3768.0	4449.1	4420.4
50°	4062.4	4082.4	3841.6	3726.9	3593.4	3536.0	3496.1	3571.0	4134.7	4757.1	4668.6
52.5°	4585.0	4501.4	4185.9	4023.7	3928.9	3911.5	3870.3	3931.4	4523.9	5029.0	4844.4
55°	5166.2	4987.9	4656.1	4373.0	4242.0	4242.0	4205.8	4276.9	4925.5	5232.3	4987.9
57.5°	5354.6	5372.0	5257.3	4949.2	4597.5	4570.0	4535.1	4632.4	5269.8	5414.5	5041.5
60°	5683.9	5732.5	5821.1	5564.1	5390.8	5157.5	4945.5	4997.9	5566.6	5564.1	5098.9
62.5°	5847.3	5893.4	6170.3	6031.9	6195.3	6211.5	5814.8	5410.7	5786.1	5639.0	5126.3
65°	5692.6	5725.0	6094.2	6276.3	6750.3	6976.0	6780.2	5965.8	5902.1	5607.8	5024.1
67.5°	5185.0	5246.1	5551.7	6106.7	7245.5	7371.4	7188.1	6727.8	5952.0	5617.8	4941.7
69°	4651.1	4652.4	5076.4	5846.0	7342.8	7430.1	7205.5	6764.0	5899.6	5594.1	4765.9
70°	4350.5	4381.7	4696.0	5620.3	7306.6	7335.3	7163.1	6762.8	5863.5	5586.6	4598.7
72.5°	3395.1	3378.9	3692.0	4699.8	6897.5	6961.1	6771.5	6571.9	5833.5	5264.8	3890.3
75°	2373.6	2423.5	2730.3	3561.0	5943.3	6134.1	6134.1	6313.7	5369.5	4498.9	2812.6
77.5°	1766.2	1773.6	2019.3	2720.3	4782.1	4980.4	5162.5	5313.4	4197.1	3082.0	1257.3
80°	1196.1	1207.4	1431.9	2006.9	3543.5	3725.6	4013.8	3655.8	2497.1	1066.4	143.4
82.5°	753.4	768.3	946.7	1409.4	2525.7	2608.1	2696.6	2064.3	831.9	123.5	91.1
85°	447.8	450.3	571.3	900.5	1540.4	1545.4	1450.6	950.4	223.3	73.6	57.4
87.5°	187.1	197.1	249.5	399.1	451.5	356.7	222.0	76.1	33.7	29.9	20.0
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°	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6	1576.6
2.5°	1559.1	1572.8	1570.3	1574.1	1579.1	1589.0	1600.3	1595.3	1601.5	1615.2	1615.2
5°	1572.8	1584.0	1587.8	1595.3	1601.5	1611.5	1619.0	1616.5	1630.2	1650.2	1650.2
7.5°	1584.0	1592.8	1605.3	1614.0	1620.2	1640.2	1647.7	1642.7	1652.6	1676.3	1677.6
10°	1600.3	1609.0	1627.7	1636.4	1648.9	1658.9	1668.9	1667.6	1677.6	1698.8	1702.5
12.5°	1640.2	1646.4	1672.6	1685.1	1685.1	1697.6	1690.1	1677.6	1682.6	1695.1	1697.6
15°	1692.6	1701.3	1735.0	1741.2	1735.0	1737.5	1720.0	1680.1	1660.1	1663.9	1665.1
17.5°	1752.4	1767.4	1806.1	1797.3	1789.8	1771.1	1726.2	1666.4	1606.5	1584.0	1587.8
20°	1816.0	1834.8	1879.7	1860.9	1833.5	1784.9	1712.5	1610.2	1517.9	1464.3	1461.8
22.5°	1889.6	1913.3	1955.7	1923.3	1862.2	1777.4	1666.4	1541.6	1424.4	1340.8	1335.8
25°	1990.7	2016.9	2031.8	1967.0	1867.2	1749.9	1600.3	1448.1	1300.9	1201.1	1193.6
27.5°	2105.4	2119.1	2089.2	1991.9	1843.5	1691.3	1517.9	1329.6	1167.5	1085.1	1073.9
30°	2232.6	2221.4	2127.9	1979.4	1782.4	1599.0	1389.5	1178.7	1049.0	982.9	972.9
32.5°	2379.8	2344.9	2157.8	1944.5	1701.3	1478.0	1249.8	1082.6	979.1	913.0	908.0
35°	2621.8	2522.0	2206.4	1890.9	1594.0	1335.8	1121.3	1000.3	919.2	836.9	824.5
37.5°	2972.3	2783.9	2277.5	1841.0	1478.0	1198.6	1024.0	934.2	863.1	770.8	753.4
40°	3336.5	3092.0	2394.8	1786.1	1369.5	1097.6	970.4	906.8	836.9	749.6	725.9
42.5°	3669.5	3385.1	2532.0	1717.5	1256.0	1016.5	944.2	899.3	829.4	747.1	728.4
45°	3971.3	3660.8	2672.9	1638.9	1131.3	951.7	923.0	885.6	814.5	735.9	720.9
47.5°	4225.8	3895.3	2815.1	1547.9	1011.5	911.8	900.5	860.6	794.5	718.4	706.0
50°	4436.6	4063.6	2896.2	1451.8	913.0	881.8	868.1	818.2	750.9	679.8	672.3
52.5°	4592.5	4168.4	2969.8	1400.7	835.7	833.2	824.5	775.8	711.0	637.4	622.4
55°	4701.0	4254.5	2937.3	1360.8	753.4	772.1	767.1	737.1	682.3	596.2	583.7
57.5°	4707.2	4262.0	2867.5	1123.8	672.3	698.5	707.2	712.2	651.1	575.0	560.0
60°	4701.0	4207.1	2737.8	824.5	593.7	624.9	657.3	657.3	614.9	540.1	528.8
62.5°	4672.3	4098.6	2435.9	587.5	531.3	572.5	614.9	596.2	560.0	500.2	488.9
65°	4541.4	3917.7	1905.8	479.0	505.1	542.6	562.5	536.3	490.2	427.8	422.8
67.5°	4303.1	3503.6	1102.6	439.0	482.7	516.4	532.6	492.7	449.0	389.2	386.7
69°	4041.2	3084.5	621.1	429.1	469.0	498.9	512.6	469.0	426.6	369.2	358.0
70°	3806.7	2710.3	404.1	420.3	455.3	487.7	497.7	452.8	412.9	354.2	346.7
72.5°	2883.7	1632.7	271.9	384.2	417.8	442.8	457.8	415.3	370.4	311.8	296.9
75°	1575.3	444.0	239.5	329.3	371.7	405.4	409.1	355.5	290.6	230.7	224.5
77.5°	306.8	152.2	205.8	271.9	295.6	335.5	333.0	296.9	252.0	195.8	188.3
80°	116.0	109.8	172.1	194.6	208.3	250.7	265.7	239.5	209.5	133.5	114.7
82.5°	78.6	81.1	128.5	114.7	127.2	148.4	187.1	182.1	165.9	91.1	81.1
85°	54.9	63.6	71.1	48.6	62.4	93.5	123.5	119.7	102.3	63.6	57.4
87.5°	16.2	17.5	20.0	24.9	38.7	69.8	101.0	83.6	56.1	47.4	41.2
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)