

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: P509319

Luminaire Tested: **VERD-CA2-70-740-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-70-740-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 980mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10529 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

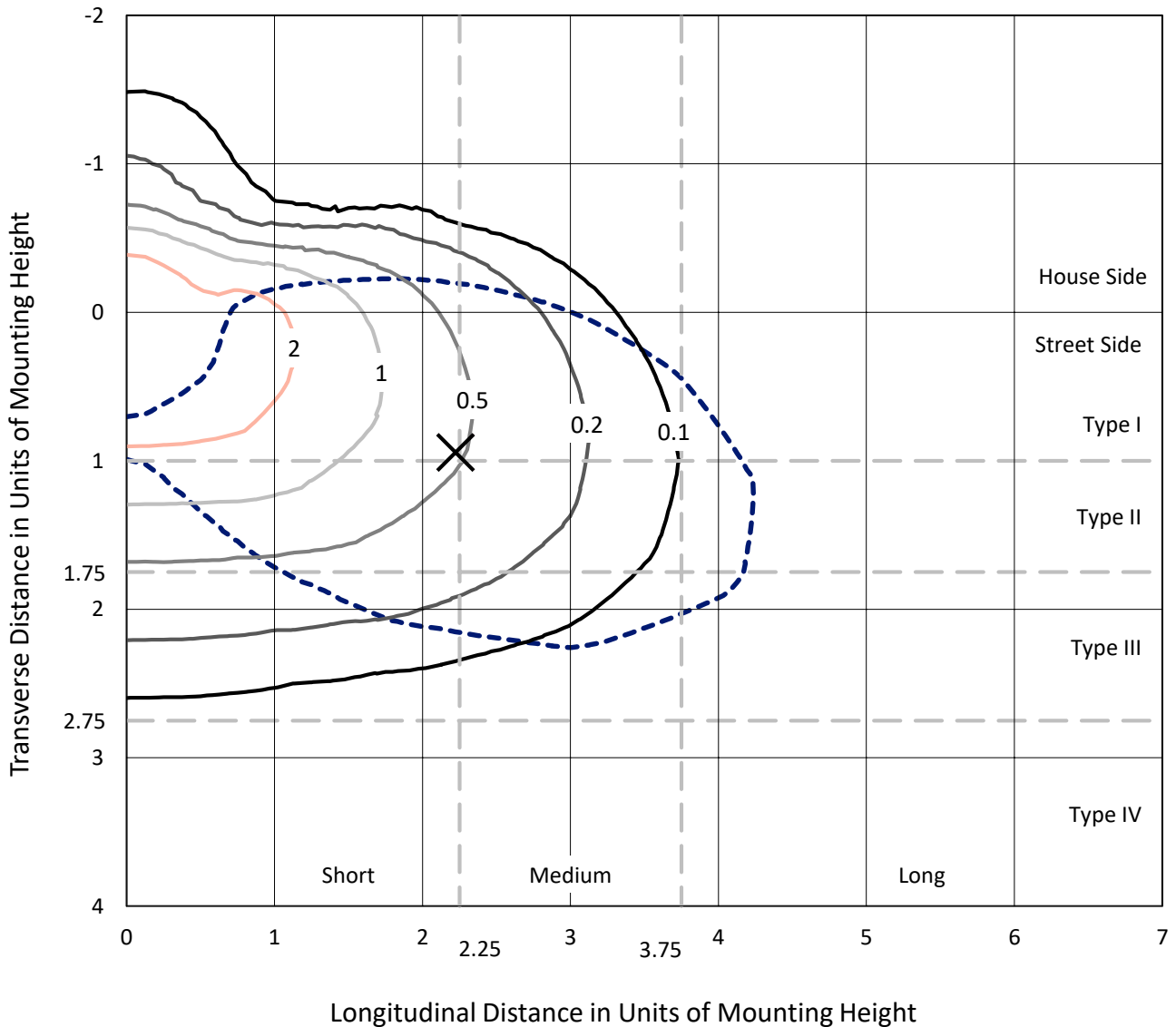
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

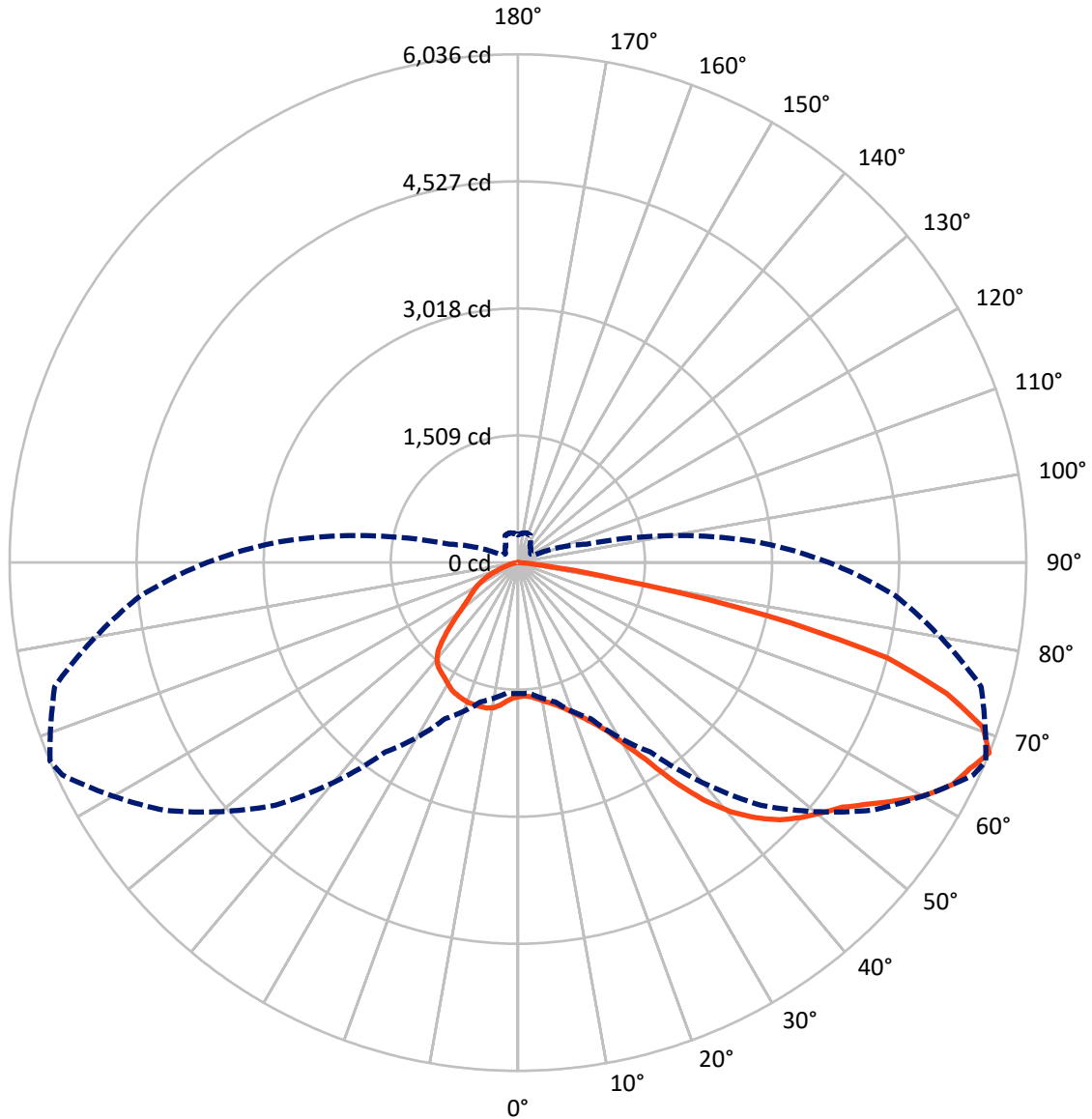
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2407.5	0.0	2407.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8121.5	0.0	8121.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	10529.0	0.0	10529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.5
10°-20°	516.3	4.9
20°-30°	892.1	8.5
30°-40°	1354.1	12.9
40°-50°	1839.9	17.5
50°-60°	2188.2	20.8
60°-70°	2251.4	21.4
70°-80°	1228.1	11.7
80°-90°	97.6	0.9
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°	10529.0	100.0
0°-180°	10529.0	100.0

Coefficient of Utilization



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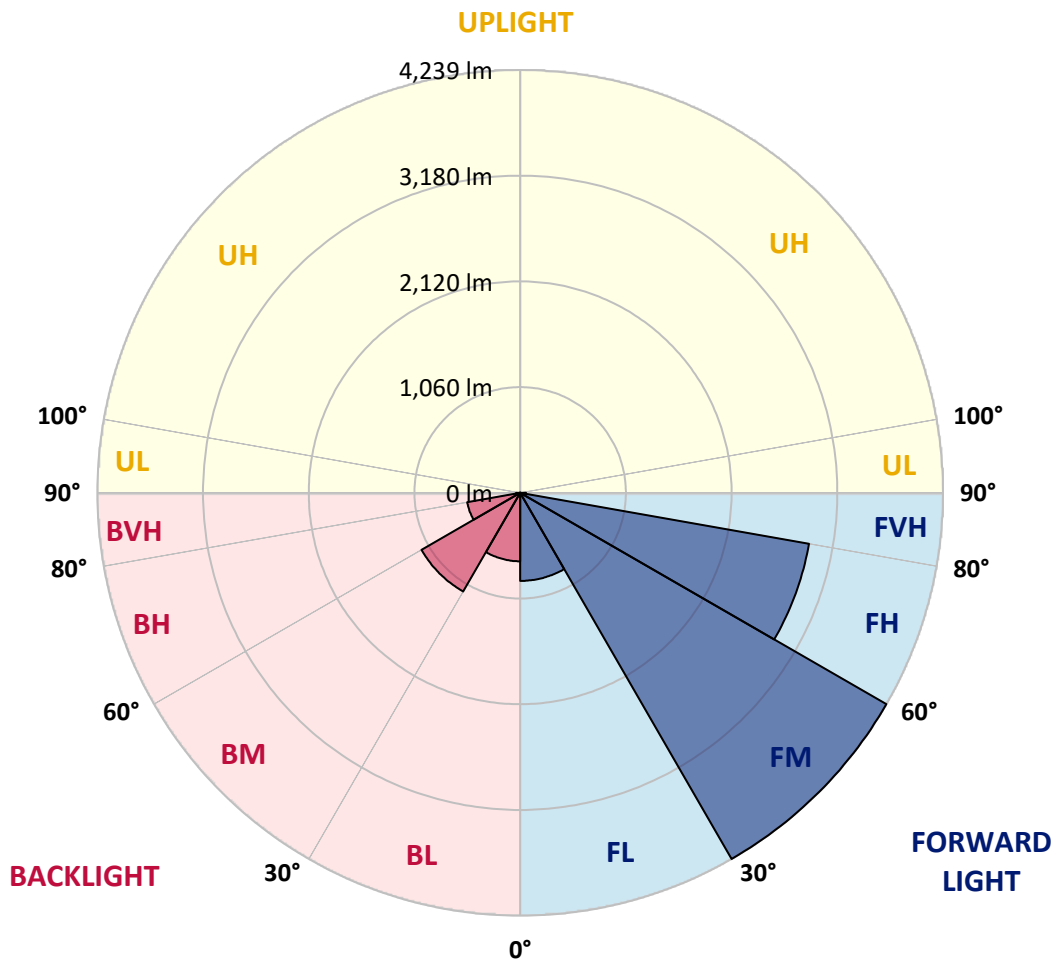
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	883.1	8.4			
FM (30°-60°)	4239.4	40.3			
FH (60°-80°)	2940.5	27.9			G2/5000
FVH (80°-90°)	58.4	0.6			G1/100
BL (0°-30°)	686.5	6.5	B2/1000		
BM (30°-60°)	1142.8	10.9	B2/2500		
BH (60°-80°)	539.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	39.2	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9
2.5°	1602.0	1595.1	1586.0	1589.4	1582.6	1594.0	1589.4	1587.2	1587.2	1588.3	1594.0
5°	1638.5	1631.6	1624.8	1623.7	1610.0	1614.5	1607.7	1600.8	1600.8	1599.7	1602.0
7.5°	1702.3	1693.2	1685.2	1684.1	1667.0	1664.7	1644.2	1630.5	1630.5	1629.4	1632.8
10°	1786.7	1783.3	1767.3	1757.1	1736.5	1722.8	1697.8	1676.1	1671.5	1664.7	1673.8
12.5°	1867.7	1866.5	1851.7	1840.3	1811.8	1787.8	1746.8	1717.1	1711.4	1703.5	1710.3
15°	1969.1	1958.9	1942.9	1936.1	1895.0	1858.5	1811.8	1767.3	1761.6	1752.5	1758.2
17.5°	2080.9	2075.2	2050.1	2042.1	1990.8	1948.6	1890.5	1833.4	1824.3	1811.8	1810.6
20°	2215.4	2205.2	2185.8	2163.0	2112.8	2052.4	1985.1	1920.1	1912.1	1901.9	1880.2
22.5°	2360.2	2348.8	2329.4	2305.5	2241.6	2177.8	2093.4	2011.3	2006.8	1999.9	1960.0
25°	2498.2	2478.8	2481.1	2458.3	2401.3	2320.3	2221.1	2123.1	2120.8	2119.6	2055.8
27.5°	2645.3	2624.7	2617.9	2609.9	2556.3	2479.9	2368.2	2274.7	2266.7	2267.9	2170.9
30°	2783.2	2774.1	2768.4	2762.7	2736.5	2668.1	2560.9	2477.7	2502.7	2500.5	2367.1
32.5°	2890.4	2883.6	2907.5	2934.9	2928.0	2871.0	2796.9	2759.3	2784.4	2865.3	2749.0
35°	2985.1	2981.6	3027.2	3085.4	3126.4	3085.4	3077.4	3135.6	3193.7	3328.3	3261.0
37.5°	3087.7	3083.1	3121.9	3221.1	3292.9	3305.5	3365.9	3515.2	3571.1	3705.7	3564.3
40°	3086.5	3092.2	3185.7	3312.3	3443.4	3549.5	3673.7	3818.5	3890.4	3954.2	3735.3
42.5°	3036.4	3039.8	3157.2	3397.8	3588.2	3796.9	3907.5	4093.3	4142.4	4154.9	3937.1
45°	2985.1	2987.3	3115.0	3385.3	3709.1	4028.3	4151.5	4321.4	4359.0	4315.7	4073.9
47.5°	2910.9	2925.8	3063.7	3372.7	3812.8	4241.6	4340.8	4509.5	4524.3	4469.6	4188.0
50°	2823.1	2831.1	2989.6	3331.7	3881.3	4373.8	4491.3	4644.1	4672.6	4611.0	4329.4
52.5°	2716.0	2722.8	2895.0	3276.9	3918.9	4475.3	4606.4	4788.9	4827.6	4800.3	4453.6
55°	2592.8	2596.2	2771.8	3188.0	3908.6	4519.8	4706.8	4994.1	5059.1	4991.8	4557.4
57.5°	2438.9	2451.4	2651.0	3054.6	3831.1	4575.6	4888.1	5247.2	5330.5	5186.8	4634.9
60°	2280.4	2293.0	2474.2	2899.5	3701.1	4600.7	5075.0	5519.7	5592.7	5371.5	4682.8
62.5°	2102.5	2119.6	2270.1	2665.8	3468.5	4567.7	5213.0	5758.0	5799.1	5482.1	4670.3
65°	1843.7	1852.8	2017.0	2384.2	3165.2	4395.5	5207.3	5885.7	5899.4	5604.1	4615.5
67.5°	1556.4	1557.5	1712.6	2044.4	2747.9	4073.9	5127.5	5969.0	6036.2	5694.2	4495.8
70°	1183.5	1199.5	1320.4	1566.6	2246.2	3524.4	4864.1	5886.9	5854.9	5447.9	4152.6
72.5°	844.9	835.8	897.3	1063.8	1572.3	2719.4	4193.7	5319.1	5325.9	4962.2	3613.3
75°	449.2	451.5	504.0	644.2	802.7	1769.6	3354.5	4493.5	4534.6	4255.2	2827.7
77.5°	100.3	114.0	173.3	246.3	348.9	566.7	1819.8	2947.4	3025.0	2800.3	1549.5
80°	77.5	78.7	114.0	140.2	153.9	271.4	578.1	1069.5	1187.0	1120.8	582.6
82.5°	51.3	52.4	75.3	77.5	74.1	124.3	262.2	320.4	352.3	307.9	216.6
85°	27.4	28.5	34.2	37.6	29.6	36.5	34.2	27.4	28.5	25.1	25.1
87.5°	5.7	3.4	4.6	3.4	3.4	2.3	3.4	3.4	3.4	3.4	3.4
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°	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9	1592.9
2.5°	1594.0	1596.3	1602.0	1611.1	1615.7	1625.9	1632.8	1649.9	1673.8	1665.8	1655.6
5°	1603.1	1610.0	1629.4	1653.3	1671.5	1698.9	1712.6	1745.7	1773.0	1770.7	1752.5
7.5°	1637.3	1652.2	1676.1	1711.4	1742.2	1769.6	1789.0	1824.3	1849.4	1839.1	1822.0
10°	1680.7	1695.5	1721.7	1753.6	1776.4	1806.1	1818.6	1847.1	1863.1	1850.6	1835.7
12.5°	1720.6	1728.5	1746.8	1770.7	1783.3	1802.7	1808.4	1828.9	1843.7	1838.0	1819.8
15°	1759.3	1758.2	1761.6	1768.5	1773.0	1777.6	1778.7	1793.5	1803.8	1792.4	1779.9
17.5°	1802.7	1791.3	1776.4	1765.0	1747.9	1740.0	1725.1	1732.0	1730.8	1721.7	1711.4
20°	1857.4	1836.9	1791.3	1755.9	1711.4	1676.1	1645.3	1639.6	1639.6	1614.5	1613.4
22.5°	1922.4	1888.2	1811.8	1734.3	1662.4	1606.5	1549.5	1516.5	1492.5	1474.3	1466.3
25°	2006.8	1944.0	1830.0	1704.6	1598.6	1497.1	1411.6	1366.0	1320.4	1290.7	1286.2
27.5°	2096.8	2028.4	1841.4	1678.4	1510.8	1371.7	1253.1	1159.6	1117.4	1098.0	1079.8
30°	2243.9	2123.1	1862.0	1622.5	1400.2	1217.7	1060.4	950.9	909.9	896.2	884.8
32.5°	2600.8	2368.2	1881.3	1565.5	1281.6	1047.8	840.3	748.0	712.6	726.3	730.9
35°	3047.8	2733.1	1973.7	1499.4	1158.4	855.2	646.5	584.9	587.2	607.7	614.6
37.5°	3351.1	3054.6	2161.8	1416.1	981.7	634.0	500.5	481.2	498.3	516.5	519.9
40°	3528.9	3201.7	2294.1	1313.5	773.1	474.3	376.3	362.6	399.1	440.1	465.2
42.5°	3718.2	3327.1	2362.5	1180.1	542.7	343.2	288.5	298.7	356.9	392.2	408.2
45°	3819.7	3425.2	2331.7	989.7	369.4	266.8	258.8	287.3	345.5	377.4	382.0
47.5°	3929.1	3523.2	2257.6	791.3	282.8	253.1	254.3	288.5	347.8	382.0	382.0
50°	4023.8	3604.2	2125.3	620.3	269.1	244.0	255.4	294.2	351.2	380.8	379.7
52.5°	4133.2	3640.7	1937.2	501.7	255.4	236.0	256.5	298.7	345.5	362.6	360.3
55°	4167.4	3614.4	1847.1	419.6	245.1	231.5	261.1	305.6	343.2	346.6	340.9
57.5°	4167.4	3543.8	1744.5	358.0	236.0	231.5	263.4	304.4	355.7	377.4	375.1
60°	4149.2	3469.6	1587.2	320.4	223.5	229.2	264.5	321.5	423.0	447.0	445.8
62.5°	4091.1	3349.9	1393.3	282.8	210.9	230.3	261.1	345.5	483.4	473.2	448.1
65°	3953.1	3124.2	1129.9	248.6	197.3	230.3	256.5	379.7	429.9	410.5	401.4
67.5°	3693.1	2840.2	840.3	213.2	181.3	215.5	249.7	355.7	364.9	343.2	329.5
70°	3349.9	2405.8	539.3	180.2	164.2	203.0	245.1	334.1	352.3	326.1	309.0
72.5°	2791.2	1911.0	312.4	147.1	139.1	187.0	236.0	323.8	346.6	311.3	287.3
75°	1969.1	1206.3	205.2	108.3	111.7	159.6	218.9	303.3	325.0	281.6	247.4
77.5°	1003.4	452.7	145.9	79.8	75.3	122.0	189.3	279.3	320.4	283.9	242.9
80°	354.6	228.0	95.8	52.4	49.0	75.3	144.8	237.2	301.0	277.1	269.1
82.5°	151.6	114.0	52.4	33.1	29.6	37.6	82.1	187.0	264.5	250.8	303.3
85°	21.7	19.4	14.8	12.5	12.5	17.1	26.2	92.4	179.0	204.1	247.4
87.5°	3.4	3.4	3.4	2.3	2.3	2.3	1.1	13.7	59.3	88.9	123.1
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)