

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: P509367

Luminaire Tested: **VERD-CA2-80-740-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509367
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-CA2-80-740-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1100mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11629 lumens
Efficiency: N/A
Efficacy: 141.1 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

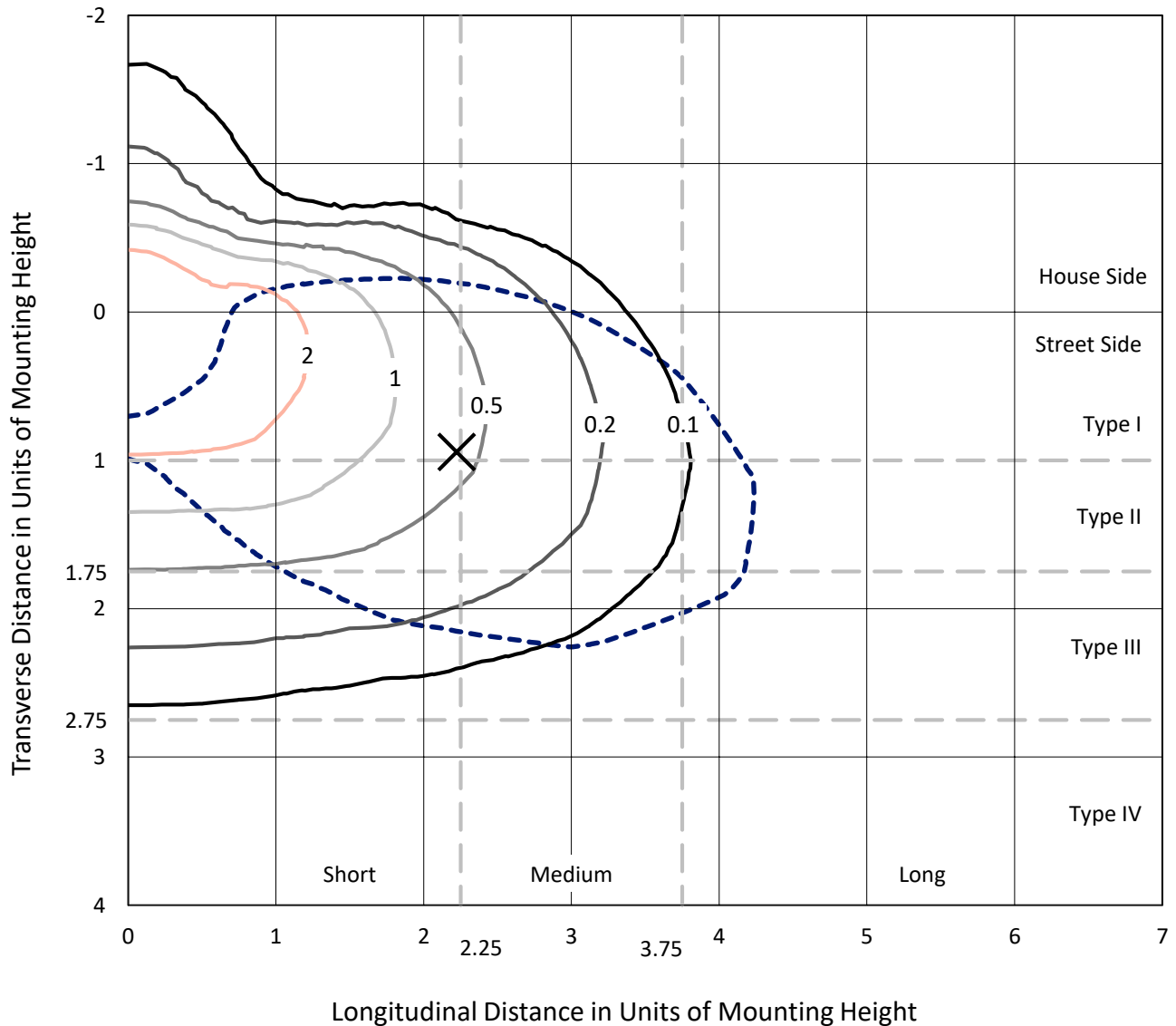
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

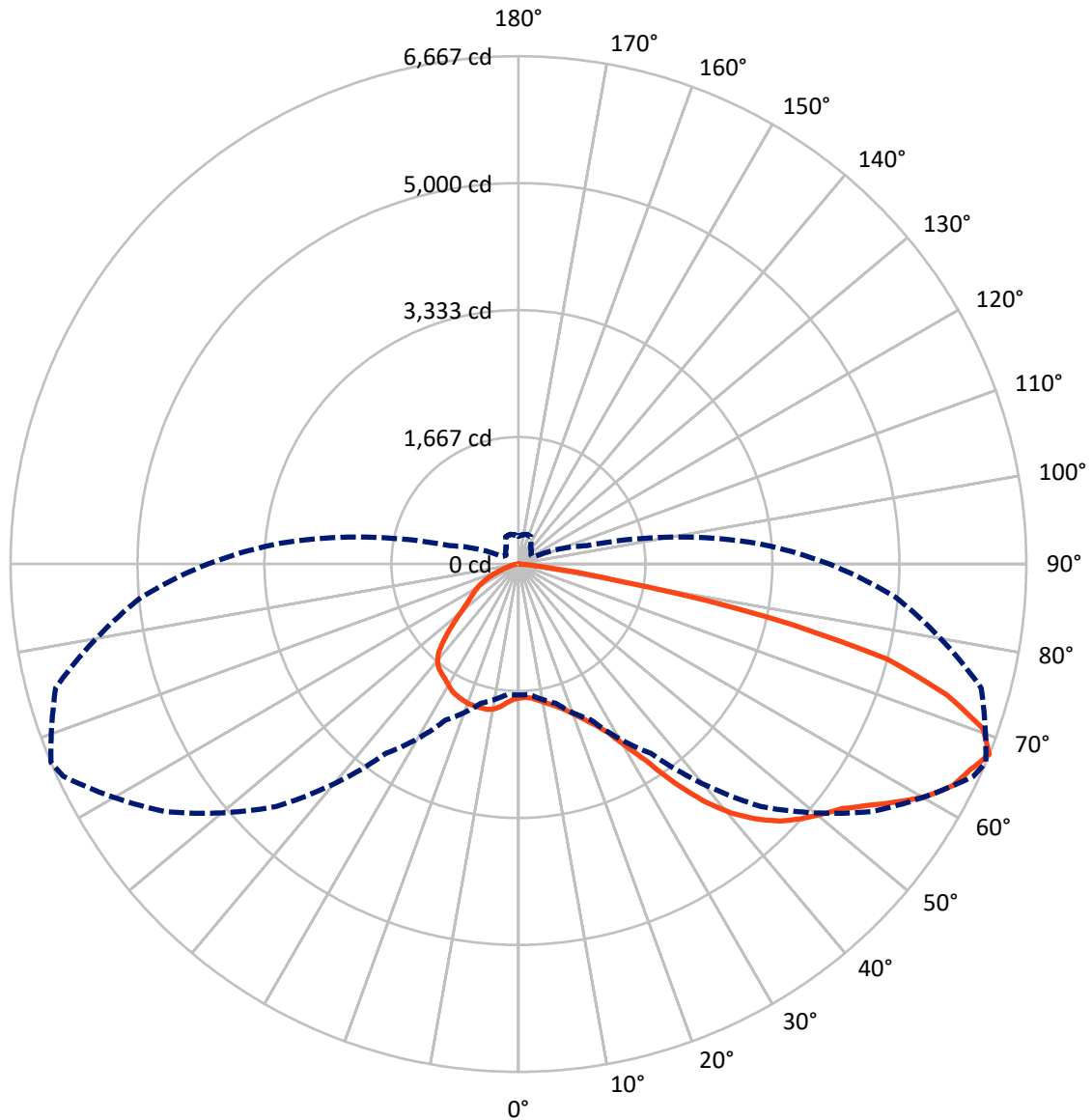
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	2659.0	0.0	2659.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8970.0	0.0	8970.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	11629.0	0.0	11629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.2	1.5
10°-20°	570.2	4.9
20°-30°	985.3	8.5
30°-40°	1495.5	12.9
40°-50°	2032.2	17.5
50°-60°	2416.8	20.8
60°-70°	2486.6	21.4
70°-80°	1356.5	11.7
80°-90°	107.8	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°	11629.0	100.0
0°-180°	11629.0	100.0

Coefficient of Utilization



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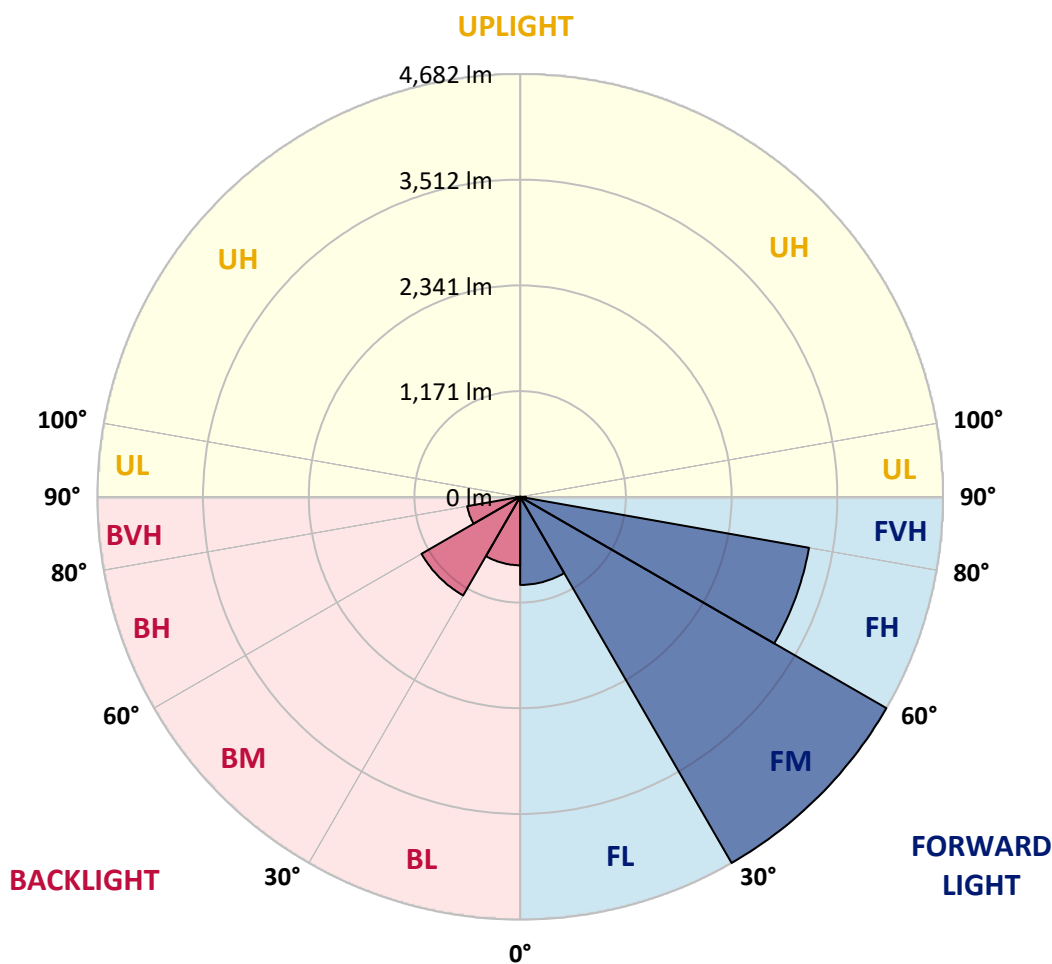
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.4	8.4			
FM	(30°-60°)	4682.3	40.3			
FH	(60°-80°)	3247.7	27.9			G2/5000
FVH	(80°-90°)	64.5	0.6			G1/100
BL	(0°-30°)	758.2	6.5	B2/1000		
BM	(30°-60°)	1262.2	10.9	B2/2500		
BH	(60°-80°)	595.3	5.1	B2/1000		G2/1000
BVH	(80°-90°)	43.3	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3
2.5°	1769.4	1761.8	1751.7	1755.5	1747.9	1760.5	1755.5	1753.0	1753.0	1754.2	1760.5
5°	1809.6	1802.1	1794.5	1793.3	1778.2	1783.2	1775.6	1768.1	1768.1	1766.8	1769.4
7.5°	1880.2	1870.1	1861.3	1860.0	1841.1	1838.6	1815.9	1800.8	1800.8	1799.6	1803.4
10°	1973.4	1969.6	1952.0	1940.6	1918.0	1902.8	1875.1	1851.2	1846.2	1838.6	1848.7
12.5°	2062.8	2061.5	2045.1	2032.6	2001.1	1974.6	1929.3	1896.5	1890.2	1881.4	1889.0
15°	2174.9	2163.5	2145.9	2138.3	2093.0	2052.7	2001.1	1952.0	1945.7	1935.6	1941.9
17.5°	2298.3	2292.0	2264.3	2255.5	2198.8	2152.2	2088.0	2025.0	2014.9	2001.1	1999.8
20°	2446.9	2435.5	2414.1	2388.9	2333.5	2266.8	2192.5	2120.7	2111.9	2100.6	2076.6
22.5°	2606.8	2594.2	2572.8	2546.4	2475.8	2405.3	2312.1	2221.4	2216.4	2208.9	2164.8
25°	2759.2	2737.8	2740.3	2715.1	2652.1	2562.7	2453.2	2344.9	2342.3	2341.1	2270.6
27.5°	2921.6	2899.0	2891.4	2882.6	2823.4	2739.0	2615.6	2512.4	2503.5	2504.8	2397.8
30°	3074.0	3063.9	3057.6	3051.3	3022.4	2946.8	2828.4	2736.5	2764.2	2761.7	2614.4
32.5°	3192.4	3184.8	3211.3	3241.5	3233.9	3171.0	3089.1	3047.6	3075.3	3164.7	3036.2
35°	3296.9	3293.1	3343.5	3407.7	3453.1	3407.7	3398.9	3463.1	3527.4	3676.0	3601.7
37.5°	3410.3	3405.2	3448.0	3557.6	3636.9	3650.8	3717.5	3882.5	3944.2	4092.8	3936.6
40°	3409.0	3415.3	3518.6	3658.3	3803.2	3920.3	4057.5	4217.5	4296.8	4367.3	4125.5
42.5°	3353.6	3357.4	3487.1	3752.8	3963.1	4193.6	4315.7	4521.0	4575.1	4589.0	4348.4
45°	3296.9	3299.4	3440.5	3738.9	4096.6	4449.2	4585.2	4772.8	4814.4	4766.5	4499.6
47.5°	3215.1	3231.4	3383.8	3725.1	4211.2	4684.7	4794.2	4980.6	4997.0	4936.6	4625.5
50°	3118.1	3126.9	3301.9	3679.7	4286.7	4830.8	4960.5	5129.2	5160.7	5092.7	4781.7
52.5°	2999.7	3007.3	3197.4	3619.3	4328.3	4942.9	5087.7	5289.2	5332.0	5301.8	4918.9
55°	2863.7	2867.5	3061.4	3521.1	4317.0	4992.0	5198.5	5515.8	5587.6	5513.3	5033.5
57.5°	2693.7	2707.5	2927.9	3373.7	4231.3	5053.7	5398.7	5795.4	5887.3	5728.7	5119.2
60°	2518.6	2532.5	2732.7	3202.5	4087.8	5081.4	5605.3	6096.4	6177.0	5932.7	5172.0
62.5°	2322.2	2341.1	2507.3	2944.3	3830.9	5044.9	5757.6	6359.6	6404.9	6054.8	5158.2
65°	2036.3	2046.4	2227.7	2633.2	3495.9	4854.7	5751.3	6500.6	6515.7	6189.6	5097.7
67.5°	1719.0	1720.2	1891.5	2258.0	3035.0	4499.6	5663.2	6592.6	6666.9	6289.1	4965.5
70°	1307.2	1324.8	1458.3	1730.3	2480.9	3892.6	5372.3	6501.9	6466.6	6017.1	4586.5
72.5°	933.2	923.1	991.1	1175.0	1736.6	3003.5	4631.8	5874.8	5882.3	5480.6	3990.8
75°	496.2	498.7	556.6	711.5	886.6	1954.5	3704.9	4963.0	5008.3	4699.8	3123.1
77.5°	110.8	125.9	191.4	272.0	385.4	625.9	2009.9	3255.4	3341.0	3092.9	1711.4
80°	85.6	86.9	125.9	154.9	170.0	299.7	638.5	1181.2	1311.0	1237.9	643.5
82.5°	56.7	57.9	83.1	85.6	81.9	137.3	289.6	353.9	389.1	340.0	239.3
85°	30.2	31.5	37.8	41.6	32.7	40.3	37.8	30.2	31.5	27.7	27.7
87.5°	6.3	3.8	5.0	3.8	3.8	2.5	3.8	3.8	3.8	3.8	3.8
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°	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3	1759.3
2.5°	1760.5	1763.1	1769.4	1779.4	1784.5	1795.8	1803.4	1822.2	1848.7	1839.9	1828.5
5°	1770.6	1778.2	1799.6	1826.0	1846.2	1876.4	1891.5	1928.0	1958.3	1955.7	1935.6
7.5°	1808.4	1824.8	1851.2	1890.2	1924.2	1954.5	1975.9	2014.9	2042.6	2031.3	2012.4
10°	1856.2	1872.6	1901.6	1936.8	1962.0	1994.8	2008.6	2040.1	2057.7	2043.9	2027.5
12.5°	1900.3	1909.1	1929.3	1955.7	1969.6	1991.0	1997.3	2020.0	2036.3	2030.0	2009.9
15°	1943.1	1941.9	1945.7	1953.2	1958.3	1963.3	1964.5	1980.9	1992.3	1979.7	1965.8
17.5°	1991.0	1978.4	1962.0	1949.4	1930.5	1921.7	1905.4	1912.9	1911.7	1901.6	1890.2
20°	2051.4	2028.8	1978.4	1939.4	1890.2	1851.2	1817.2	1810.9	1810.9	1783.2	1781.9
22.5°	2123.2	2085.4	2001.1	1915.4	1836.1	1774.4	1711.4	1674.9	1648.5	1628.3	1619.5
25°	2216.4	2147.1	2021.2	1882.7	1765.6	1653.5	1559.0	1508.7	1458.3	1425.6	1420.5
27.5°	2315.9	2240.3	2033.8	1853.7	1668.6	1515.0	1384.0	1280.7	1234.1	1212.7	1192.6
30°	2478.4	2344.9	2056.5	1792.0	1546.5	1345.0	1171.2	1050.3	1004.9	989.8	977.2
32.5°	2872.5	2615.6	2077.9	1729.1	1415.5	1157.3	928.1	826.1	787.1	802.2	807.2
35°	3366.2	3018.6	2179.9	1656.0	1279.5	944.5	714.0	646.0	648.6	671.2	678.8
37.5°	3701.2	3373.7	2387.7	1564.1	1084.3	700.2	552.8	531.4	550.3	570.5	574.3
40°	3897.6	3536.2	2533.8	1450.7	853.8	523.9	415.6	400.5	440.8	486.1	513.8
42.5°	4106.7	3674.7	2609.3	1303.4	599.4	379.1	318.6	329.9	394.2	433.2	450.8
45°	4218.7	3783.0	2575.3	1093.1	408.0	294.7	285.9	317.3	381.6	416.8	421.9
47.5°	4339.6	3891.3	2493.5	874.0	312.3	279.6	280.8	318.6	384.1	421.9	421.9
50°	4444.2	3980.7	2347.4	685.1	297.2	269.5	282.1	324.9	387.9	420.6	419.4
52.5°	4565.1	4021.0	2139.6	554.1	282.1	260.7	283.3	329.9	381.6	400.5	397.9
55°	4602.8	3992.1	2040.1	463.4	270.8	255.6	288.4	337.5	379.1	382.8	376.5
57.5°	4602.8	3914.0	1926.8	395.4	260.7	255.6	290.9	336.2	392.9	416.8	414.3
60°	4582.7	3832.1	1753.0	353.9	246.8	253.1	292.2	355.1	467.2	493.7	492.4
62.5°	4518.5	3699.9	1538.9	312.3	233.0	254.4	288.4	381.6	534.0	522.6	494.9
65°	4366.1	3450.6	1248.0	274.5	217.9	254.4	283.3	419.4	474.8	453.4	443.3
67.5°	4079.0	3137.0	928.1	235.5	200.2	238.0	275.8	392.9	403.0	379.1	363.9
70°	3699.9	2657.2	595.7	199.0	181.3	224.2	270.8	369.0	389.1	360.2	341.3
72.5°	3082.8	2110.6	345.1	162.5	153.6	206.5	260.7	357.6	382.8	343.8	317.3
75°	2174.9	1332.4	226.7	119.6	123.4	176.3	241.8	335.0	358.9	311.1	273.3
77.5°	1108.2	500.0	161.2	88.2	83.1	134.7	209.0	308.5	353.9	313.6	268.2
80°	391.7	251.9	105.8	57.9	54.2	83.1	159.9	261.9	332.5	306.0	297.2
82.5°	167.5	125.9	57.9	36.5	32.7	41.6	90.7	206.5	292.2	277.1	335.0
85°	23.9	21.4	16.4	13.9	13.9	18.9	29.0	102.0	197.7	225.4	273.3
87.5°	3.8	3.8	3.8	2.5	2.5	2.5	1.3	15.1	65.5	98.2	136.0
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)