

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: P509383

Luminaire Tested: **VERD-CA2-80-760-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509383
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-CA2-80-760-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1100mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11592 lumens
Efficiency: N/A
Efficacy: 140.7 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

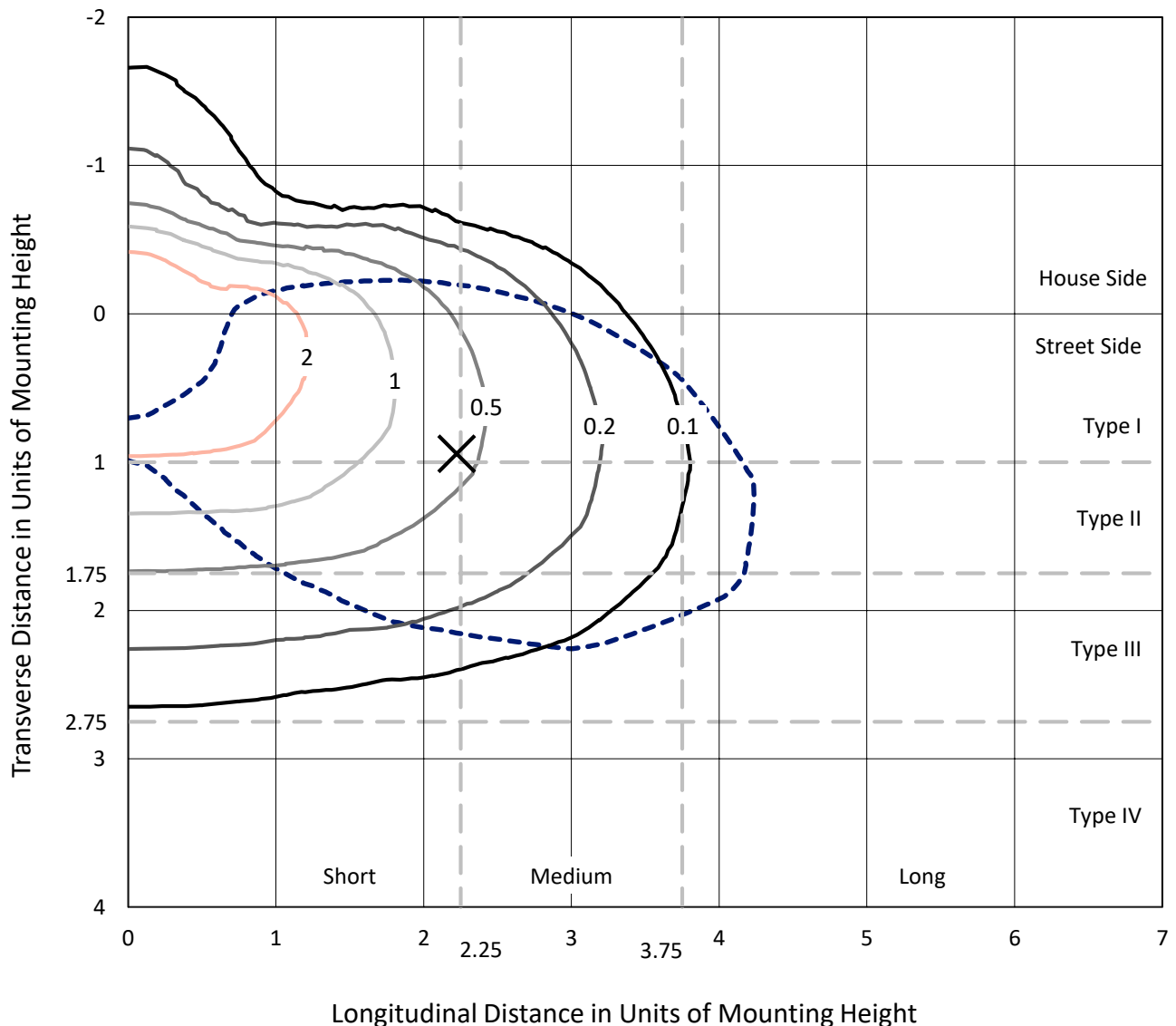
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

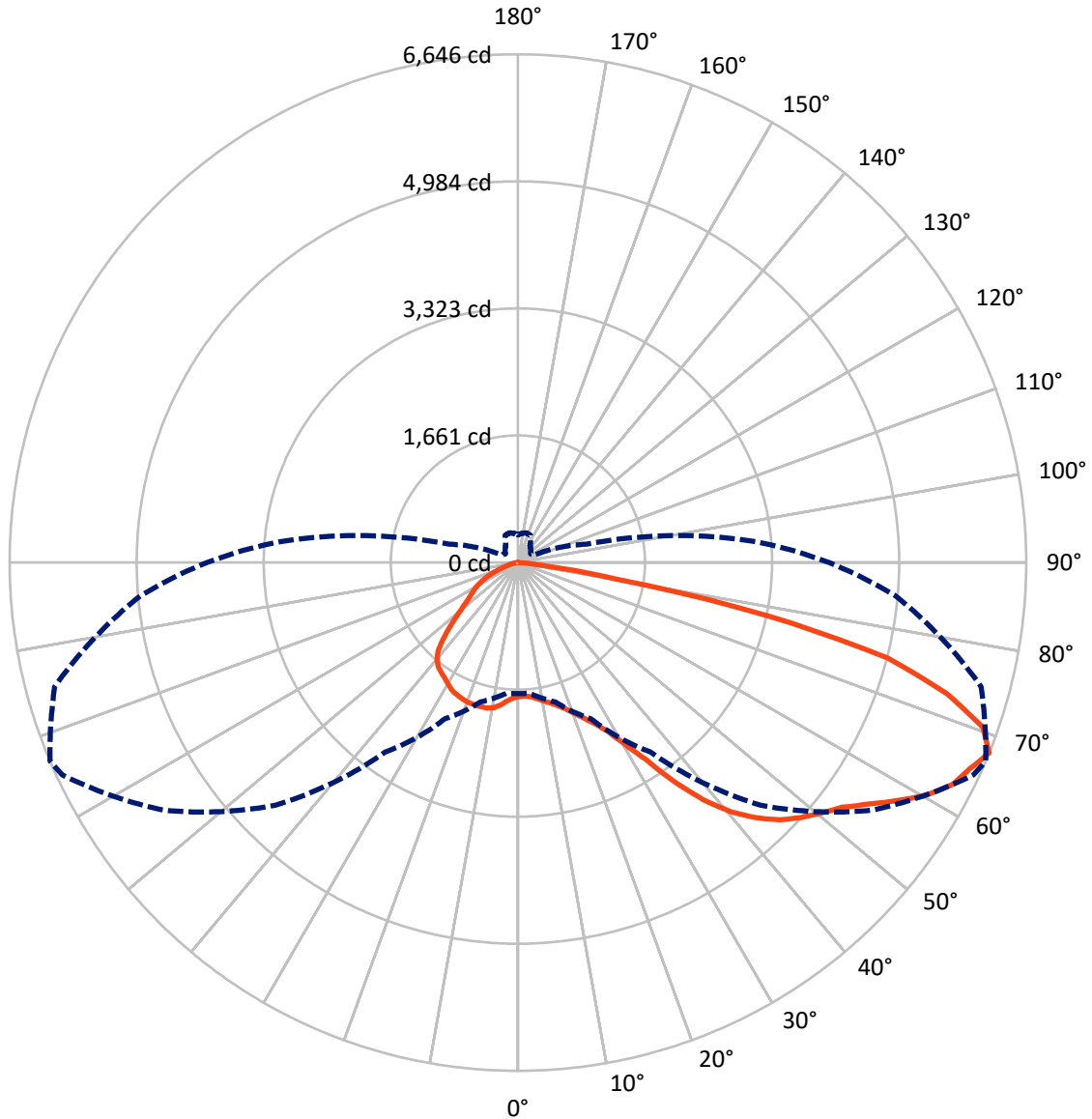
✕ Max cd
 - - - 1/2 Max cd



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	2650.6	0.0	2650.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8941.4	0.0	8941.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	11592.0	0.0	11592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.5
10°-20°	568.4	4.9
20°-30°	982.1	8.5
30°-40°	1490.8	12.9
40°-50°	2025.7	17.5
50°-60°	2409.2	20.8
60°-70°	2478.7	21.4
70°-80°	1352.1	11.7
80°-90°	107.4	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°	11592.0	100.0
0°-180°	11592.0	100.0

Coefficient of Utilization



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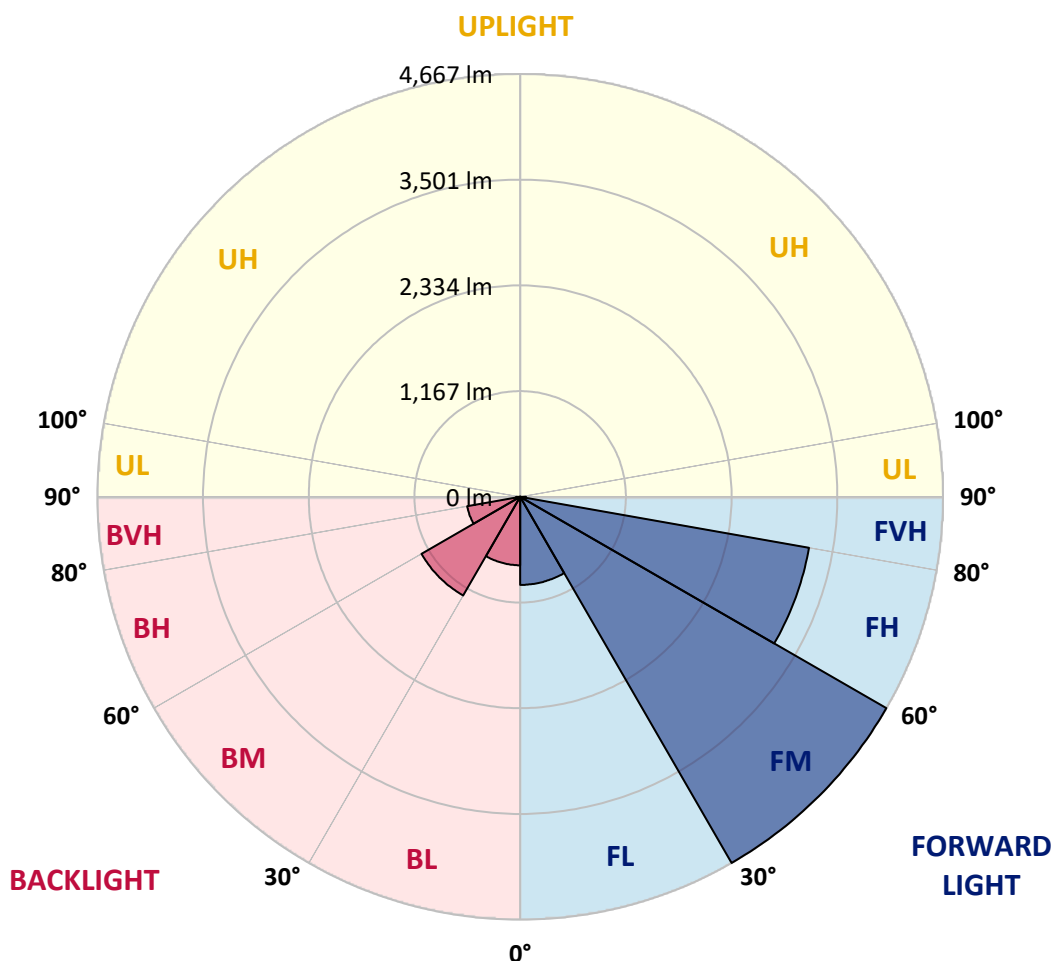
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.3	8.4			
FM (30°-60°)	4667.4	40.3			
FH (60°-80°)	3237.4	27.9			G2/5000
FVH (80°-90°)	64.3	0.6			G1/100
BL (0°-30°)	755.8	6.5	B2/1000		
BM (30°-60°)	1258.2	10.9	B2/2500		
BH (60°-80°)	593.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	43.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7
2.5°	1763.7	1756.2	1746.1	1749.9	1742.4	1754.9	1749.9	1747.4	1747.4	1748.7	1754.9
5°	1803.9	1796.4	1788.8	1787.6	1772.5	1777.5	1770.0	1762.5	1762.5	1761.2	1763.7
7.5°	1874.2	1864.1	1855.4	1854.1	1835.3	1832.8	1810.2	1795.1	1795.1	1793.8	1797.6
10°	1967.1	1963.3	1945.7	1934.4	1911.8	1896.8	1869.2	1845.3	1840.3	1832.8	1842.8
12.5°	2056.2	2055.0	2038.6	2026.1	1994.7	1968.3	1923.1	1890.5	1884.2	1875.4	1883.0
15°	2167.9	2156.6	2139.1	2131.5	2086.3	2046.2	1994.7	1945.7	1939.5	1929.4	1935.7
17.5°	2291.0	2284.7	2257.1	2248.3	2191.8	2145.3	2081.3	2018.6	2008.5	1994.7	1993.4
20°	2439.1	2427.8	2406.4	2381.3	2326.1	2259.6	2185.5	2114.0	2105.2	2093.9	2070.0
22.5°	2598.5	2586.0	2564.6	2538.3	2468.0	2397.7	2304.8	2214.4	2209.4	2201.8	2157.9
25°	2750.4	2729.1	2731.6	2706.5	2643.7	2554.6	2445.4	2337.4	2334.9	2333.6	2263.3
27.5°	2912.3	2889.7	2882.2	2873.4	2814.4	2730.3	2607.3	2504.4	2495.6	2496.8	2390.1
30°	3064.2	3054.2	3047.9	3041.6	3012.8	2937.4	2819.4	2727.8	2755.4	2752.9	2606.0
32.5°	3182.2	3174.7	3201.1	3231.2	3223.7	3160.9	3079.3	3037.9	3065.5	3154.6	3026.6
35°	3286.4	3282.7	3332.9	3396.9	3442.1	3396.9	3388.1	3452.1	3516.1	3664.3	3590.2
37.5°	3399.4	3394.4	3437.1	3546.3	3625.4	3639.2	3705.7	3870.1	3931.7	4079.8	3924.1
40°	3398.1	3404.4	3507.4	3646.7	3791.1	3907.8	4044.6	4204.1	4283.1	4353.4	4112.4
42.5°	3342.9	3346.7	3476.0	3740.8	3950.5	4180.2	4302.0	4506.6	4560.6	4574.4	4334.6
45°	3286.4	3288.9	3429.5	3727.0	4083.5	4435.0	4570.6	4757.7	4799.1	4751.4	4485.3
47.5°	3204.8	3221.1	3373.0	3713.2	4197.8	4669.8	4779.0	4964.8	4981.1	4920.8	4610.8
50°	3108.2	3117.0	3291.4	3668.0	4273.1	4815.4	4944.7	5112.9	5144.3	5076.5	4766.4
52.5°	2990.2	2997.7	3187.3	3607.8	4314.5	4927.1	5071.5	5272.3	5315.0	5284.9	4903.3
55°	2854.6	2858.4	3051.7	3509.9	4303.2	4976.1	5182.0	5498.3	5569.8	5495.8	5017.5
57.5°	2685.1	2698.9	2918.6	3363.0	4217.9	5037.6	5381.5	5777.0	5868.6	5710.4	5102.9
60°	2510.6	2524.4	2724.0	3192.3	4074.8	5065.2	5587.4	6077.0	6157.3	5913.8	5155.6
62.5°	2314.8	2333.6	2499.3	2934.9	3818.7	5028.8	5739.3	6339.4	6384.5	6035.6	5141.8
65°	2029.8	2039.9	2220.7	2624.9	3484.8	4839.3	5733.0	6480.0	6495.0	6169.9	5081.5
67.5°	1713.5	1714.8	1885.5	2250.8	3025.3	4485.3	5645.2	6571.6	6645.7	6269.1	4949.7
70°	1303.0	1320.6	1453.7	1724.8	2473.0	3880.2	5355.2	6481.2	6446.1	5997.9	4571.9
72.5°	930.2	920.1	987.9	1171.2	1731.1	2993.9	4617.1	5856.1	5863.6	5463.1	3978.1
75°	494.6	497.1	554.9	709.3	883.7	1948.3	3693.1	4947.2	4992.4	4684.8	3113.2
77.5°	110.5	125.5	190.8	271.1	384.1	623.9	2003.5	3245.0	3330.4	3083.1	1706.0
80°	85.4	86.6	125.5	154.4	169.5	298.8	636.4	1177.5	1306.8	1234.0	641.5
82.5°	56.5	57.7	82.9	85.4	81.6	136.8	288.7	352.7	387.9	338.9	238.5
85°	30.1	31.4	37.7	41.4	32.6	40.2	37.7	30.1	31.4	27.6	27.6
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°	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7	1753.7
2.5°	1754.9	1757.4	1763.7	1773.8	1778.8	1790.1	1797.6	1816.4	1842.8	1834.0	1822.7
5°	1765.0	1772.5	1793.8	1820.2	1840.3	1870.4	1885.5	1921.9	1952.0	1949.5	1929.4
7.5°	1802.6	1819.0	1845.3	1884.2	1918.1	1948.3	1969.6	2008.5	2036.1	2024.8	2006.0
10°	1850.3	1866.7	1895.5	1930.7	1955.8	1988.4	2002.2	2033.6	2051.2	2037.4	2021.1
12.5°	1894.3	1903.1	1923.1	1949.5	1963.3	1984.7	1990.9	2013.5	2029.8	2023.6	2003.5
15°	1937.0	1935.7	1939.5	1947.0	1952.0	1957.0	1958.3	1974.6	1985.9	1973.4	1959.6
17.5°	1984.7	1972.1	1955.8	1943.2	1924.4	1915.6	1899.3	1906.8	1905.6	1895.5	1884.2
20°	2044.9	2022.3	1972.1	1933.2	1884.2	1845.3	1811.4	1805.1	1805.1	1777.5	1776.3
22.5°	2116.5	2078.8	1994.7	1909.3	1830.3	1768.7	1706.0	1669.6	1643.2	1623.1	1614.3
25°	2209.4	2140.3	2014.8	1876.7	1760.0	1648.2	1554.1	1503.9	1453.7	1421.0	1416.0
27.5°	2308.5	2233.2	2027.3	1847.8	1663.3	1510.1	1379.6	1276.7	1230.2	1208.9	1188.8
30°	2470.5	2337.4	2049.9	1786.3	1541.5	1340.7	1167.4	1046.9	1001.7	986.7	974.1
32.5°	2863.4	2607.3	2071.3	1723.6	1411.0	1153.6	925.2	823.5	784.6	799.6	804.7
35°	3355.5	3009.0	2173.0	1650.7	1275.4	941.5	711.8	644.0	646.5	669.1	676.6
37.5°	3689.4	3363.0	2380.1	1559.1	1080.8	698.0	551.1	529.7	548.6	568.7	572.4
40°	3885.2	3524.9	2525.7	1446.1	851.1	522.2	414.3	399.2	439.4	484.6	512.2
42.5°	4093.6	3663.0	2601.0	1299.3	597.5	377.9	317.6	328.9	392.9	431.8	449.4
45°	4205.3	3771.0	2567.1	1089.6	406.7	293.7	285.0	316.3	380.4	415.5	420.5
47.5°	4325.8	3878.9	2485.5	871.2	311.3	278.7	279.9	317.6	382.9	420.5	420.5
50°	4430.0	3968.1	2339.9	682.9	296.3	268.6	281.2	323.9	386.6	419.3	418.0
52.5°	4550.5	4008.2	2132.8	552.3	281.2	259.9	282.4	328.9	380.4	399.2	396.7
55°	4588.2	3979.4	2033.6	462.0	269.9	254.8	287.5	336.4	377.9	381.6	375.3
57.5°	4588.2	3901.5	1920.6	394.2	259.9	254.8	290.0	335.2	391.7	415.5	413.0
60°	4568.1	3819.9	1747.4	352.7	246.0	252.3	291.2	354.0	465.7	492.1	490.8
62.5°	4504.1	3688.1	1534.0	311.3	232.2	253.6	287.5	380.4	532.3	521.0	493.3
65°	4352.2	3439.6	1244.0	273.7	217.2	253.6	282.4	418.0	473.3	451.9	441.9
67.5°	4066.0	3127.0	925.2	234.7	199.6	237.3	274.9	391.7	401.7	377.9	362.8
70°	3688.1	2648.7	593.8	198.3	180.8	223.4	269.9	367.8	387.9	359.0	340.2
72.5°	3073.0	2103.9	344.0	161.9	153.1	205.9	259.9	356.5	381.6	342.7	316.3
75°	2167.9	1328.1	226.0	119.3	123.0	175.7	241.0	333.9	357.8	310.1	272.4
77.5°	1104.7	498.4	160.7	87.9	82.9	134.3	208.4	307.6	352.7	312.6	267.4
80°	390.4	251.1	105.4	57.7	54.0	82.9	159.4	261.1	331.4	305.0	296.3
82.5°	167.0	125.5	57.7	36.4	32.6	41.4	90.4	205.9	291.2	276.2	333.9
85°	23.9	21.3	16.3	13.8	13.8	18.8	28.9	101.7	197.1	224.7	272.4
87.5°	3.8	3.8	3.8	2.5	2.5	2.5	1.3	15.1	65.3	97.9	135.6
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)