

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: P509359

Luminaire Tested: **VERD-CA2-80-730-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509359
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-CA2-80-730-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1100mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11419 lumens
Efficiency: N/A
Efficacy: 138.6 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

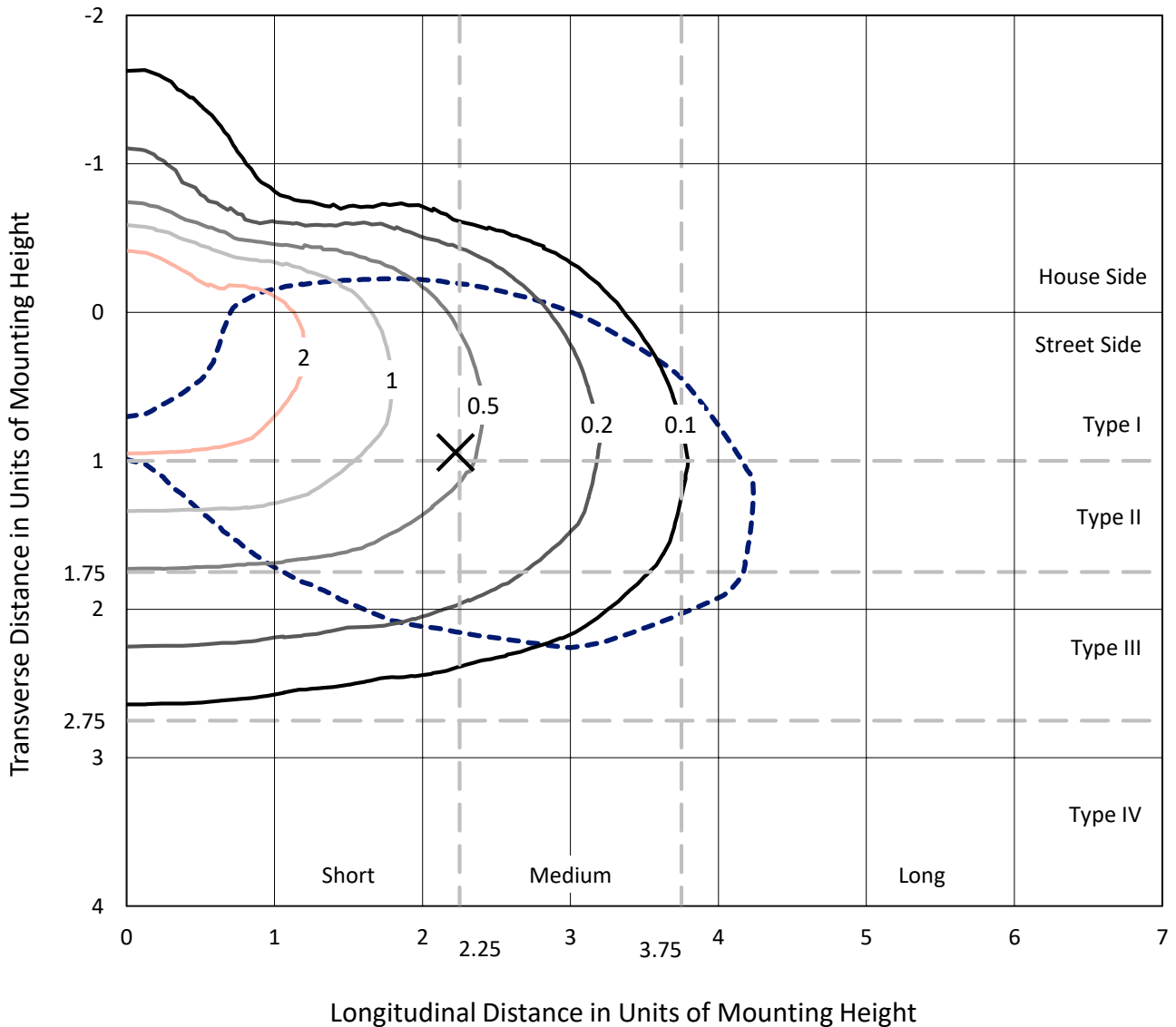
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

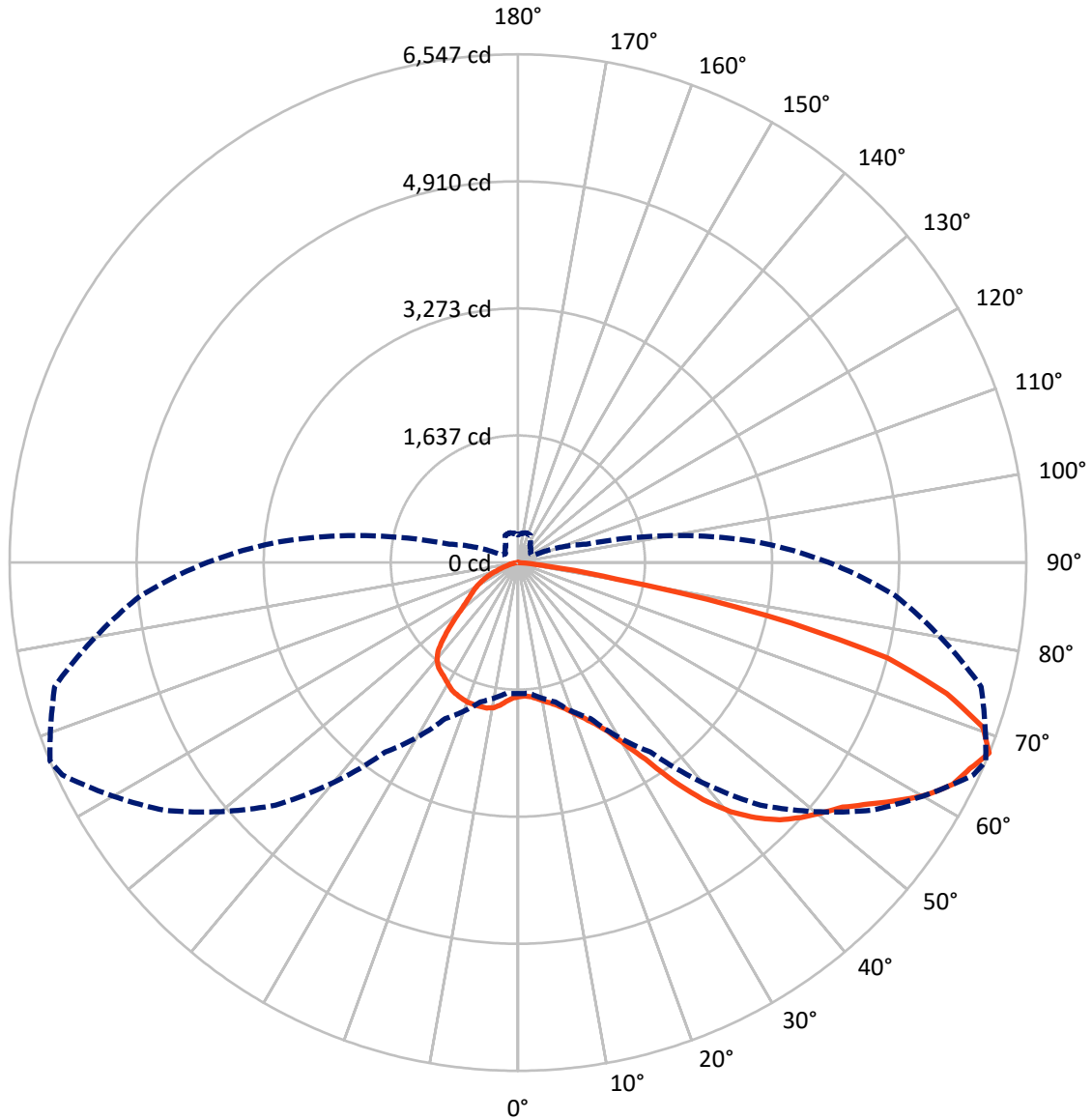
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	2611.0	0.0	2611.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8808.0	0.0	8808.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	11419.0	0.0	11419.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	1.5
10°-20°	559.9	4.9
20°-30°	967.5	8.5
30°-40°	1468.5	12.9
40°-50°	1995.5	17.5
50°-60°	2373.2	20.8
60°-70°	2441.7	21.4
70°-80°	1332.0	11.7
80°-90°	105.8	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°	11419.0	100.0
0°-180°	11419.0	100.0



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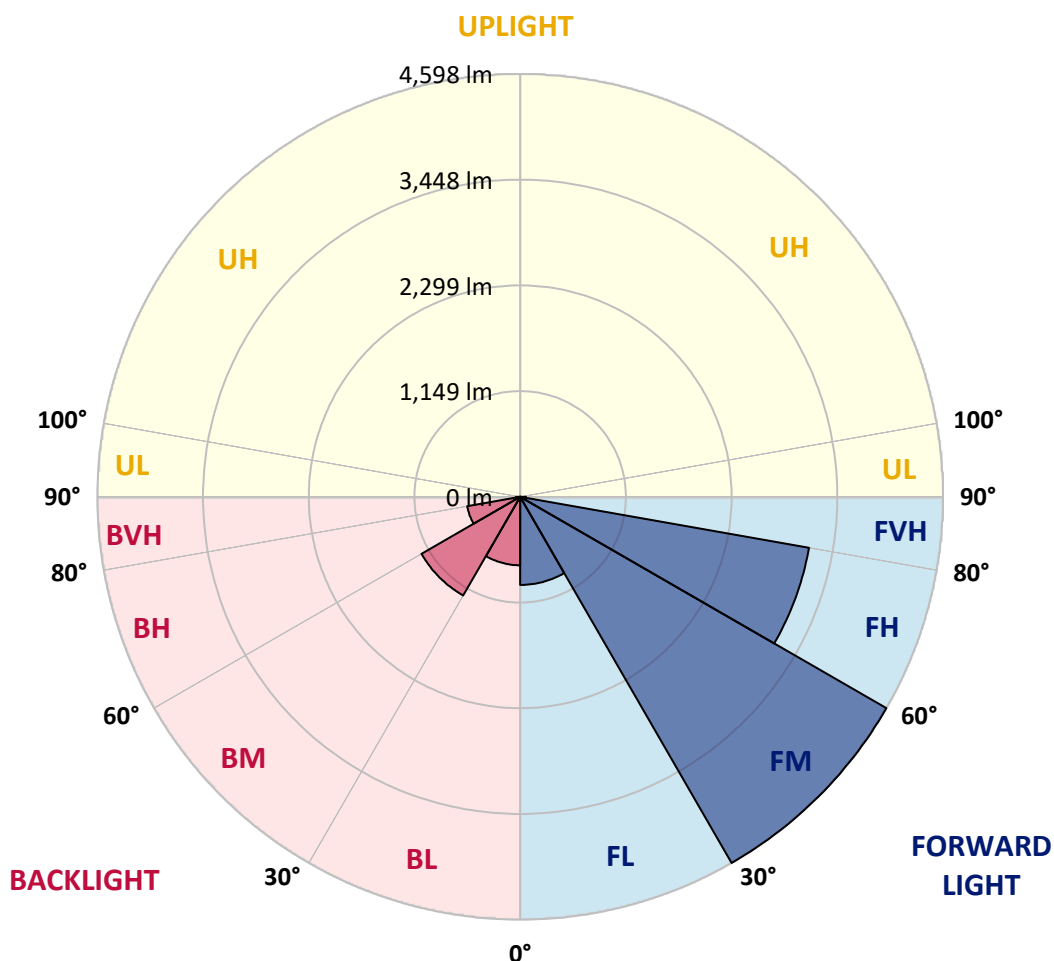
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.8	8.4			
FM (30°-60°)	4597.8	40.3			
FH (60°-80°)	3189.1	27.9			G2/5000
FVH (80°-90°)	63.3	0.6			G1/100
BL (0°-30°)	744.5	6.5	B2/1000		
BM (30°-60°)	1239.4	10.9	B2/2500		
BH (60°-80°)	584.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	42.5	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°	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5
2.5°	1737.4	1730.0	1720.1	1723.8	1716.4	1728.7	1723.8	1721.3	1721.3	1722.6	1728.7
5°	1777.0	1769.6	1762.1	1760.9	1746.1	1751.0	1743.6	1736.2	1736.2	1734.9	1737.4
7.5°	1846.2	1836.3	1827.7	1826.4	1807.9	1805.4	1783.2	1768.3	1768.3	1767.1	1770.8
10°	1937.7	1934.0	1916.7	1905.6	1883.3	1868.5	1841.3	1817.8	1812.8	1805.4	1815.3
12.5°	2025.5	2024.3	2008.2	1995.8	1964.9	1939.0	1894.4	1862.3	1856.1	1847.5	1854.9
15°	2135.6	2124.5	2107.1	2099.7	2055.2	2015.6	1964.9	1916.7	1910.5	1900.6	1906.8
17.5°	2256.8	2250.6	2223.4	2214.7	2159.1	2113.3	2050.3	1988.4	1978.5	1964.9	1963.7
20°	2402.7	2391.6	2370.5	2345.8	2291.4	2225.9	2152.9	2082.4	2073.8	2062.6	2039.1
22.5°	2559.7	2547.4	2526.3	2500.4	2431.1	2361.9	2270.4	2181.3	2176.4	2169.0	2125.7
25°	2709.4	2688.3	2690.8	2666.1	2604.2	2516.4	2408.9	2302.5	2300.0	2298.8	2229.6
27.5°	2868.9	2846.6	2839.2	2830.5	2772.4	2689.6	2568.4	2467.0	2458.3	2459.6	2354.5
30°	3018.5	3008.6	3002.4	2996.2	2967.8	2893.6	2777.4	2687.1	2714.3	2711.8	2567.1
32.5°	3134.7	3127.3	3153.3	3183.0	3175.5	3113.7	3033.3	2992.5	3019.7	3107.5	2981.4
35°	3237.4	3233.7	3283.1	3346.2	3390.7	3346.2	3337.5	3400.6	3463.7	3609.6	3536.6
37.5°	3348.7	3343.7	3385.8	3493.3	3571.3	3584.9	3650.4	3812.4	3873.0	4018.9	3865.6
40°	3347.4	3353.6	3455.0	3592.3	3734.5	3849.5	3984.3	4141.3	4219.2	4288.5	4051.0
42.5°	3293.0	3296.7	3424.1	3685.0	3891.5	4117.8	4237.8	4439.3	4492.5	4506.1	4269.9
45°	3237.4	3239.8	3378.3	3671.4	4022.6	4368.8	4502.4	4686.7	4727.5	4680.5	4418.3
47.5°	3157.0	3173.1	3322.7	3657.8	4135.1	4600.1	4707.7	4890.7	4906.8	4847.4	4542.0
50°	3061.8	3070.4	3242.3	3613.3	4209.3	4743.5	4870.9	5036.6	5067.5	5000.7	4695.3
52.5°	2945.5	2953.0	3139.7	3553.9	4250.1	4853.6	4995.8	5193.7	5235.7	5206.0	4830.1
55°	2812.0	2815.7	3006.1	3457.5	4239.0	4901.8	5104.6	5416.2	5486.7	5413.8	4942.6
57.5°	2645.1	2658.7	2875.1	3312.8	4154.9	4962.4	5301.2	5690.8	5781.0	5625.2	5026.7
60°	2473.2	2486.8	2683.4	3144.6	4014.0	4989.6	5504.0	5986.3	6065.4	5825.5	5078.6
62.5°	2280.3	2298.8	2462.0	2891.1	3761.7	4953.8	5653.7	6244.7	6289.3	5945.5	5065.0
65°	1999.6	2009.4	2187.5	2585.7	3432.8	4767.0	5647.5	6383.2	6398.1	6077.8	5005.7
67.5°	1687.9	1689.2	1857.3	2217.2	2980.2	4418.3	5560.9	6473.5	6546.5	6175.5	4875.8
70°	1283.6	1300.9	1432.0	1699.1	2436.1	3822.3	5275.3	6384.5	6349.9	5908.4	4503.6
72.5°	916.3	906.4	973.2	1153.7	1705.2	2949.3	4548.2	5768.7	5776.1	5381.6	3918.7
75°	487.2	489.7	546.6	698.7	870.6	1919.2	3638.0	4873.4	4917.9	4614.9	3066.7
77.5°	108.8	123.7	188.0	267.1	378.4	614.6	1973.6	3196.6	3280.7	3037.0	1680.5
80°	84.1	85.3	123.7	152.1	166.9	294.3	626.9	1159.9	1287.3	1215.6	631.9
82.5°	55.6	56.9	81.6	84.1	80.4	134.8	284.4	347.5	382.1	333.9	235.0
85°	29.7	30.9	37.1	40.8	32.2	39.6	37.1	29.7	30.9	27.2	27.2
87.5°	6.2	3.7	4.9	3.7	3.7	2.5	3.7	3.7	3.7	3.7	3.7
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°	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5	1727.5
2.5°	1728.7	1731.2	1737.4	1747.3	1752.2	1763.4	1770.8	1789.3	1815.3	1806.6	1795.5
5°	1738.6	1746.1	1767.1	1793.0	1812.8	1842.5	1857.3	1893.2	1922.9	1920.4	1900.6
7.5°	1775.7	1791.8	1817.8	1856.1	1889.5	1919.2	1940.2	1978.5	2005.7	1994.6	1976.1
10°	1822.7	1838.8	1867.2	1901.9	1926.6	1958.7	1972.4	2003.3	2020.6	2007.0	1990.9
12.5°	1866.0	1874.7	1894.4	1920.4	1934.0	1955.0	1961.2	1983.5	1999.6	1993.4	1973.6
15°	1908.0	1906.8	1910.5	1917.9	1922.9	1927.8	1929.1	1945.1	1956.3	1943.9	1930.3
17.5°	1955.0	1942.7	1926.6	1914.2	1895.7	1887.0	1871.0	1878.4	1877.1	1867.2	1856.1
20°	2014.4	1992.1	1942.7	1904.3	1856.1	1817.8	1784.4	1778.2	1778.2	1751.0	1749.8
22.5°	2084.9	2047.8	1964.9	1880.8	1802.9	1742.3	1680.5	1644.7	1618.7	1598.9	1590.2
25°	2176.4	2108.4	1984.7	1848.7	1733.7	1623.6	1530.9	1481.4	1432.0	1399.8	1394.9
27.5°	2274.1	2199.9	1997.1	1820.3	1638.5	1487.6	1359.0	1257.6	1211.9	1190.8	1171.0
30°	2433.6	2302.5	2019.3	1759.7	1518.5	1320.7	1150.0	1031.3	986.8	972.0	959.6
32.5°	2820.6	2568.4	2040.4	1697.8	1389.9	1136.4	911.4	811.2	772.9	787.7	792.7
35°	3305.4	2964.1	2140.5	1626.1	1256.4	927.4	701.1	634.4	636.8	659.1	666.5
37.5°	3634.3	3312.8	2344.6	1535.8	1064.7	687.5	542.9	521.8	540.4	560.2	563.9
40°	3827.2	3472.3	2488.0	1424.5	838.4	514.4	408.1	393.2	432.8	477.3	504.5
42.5°	4032.5	3608.4	2562.2	1279.9	588.6	372.2	312.9	324.0	387.1	425.4	442.7
45°	4142.6	3714.7	2528.8	1073.4	400.7	289.4	280.7	311.6	374.7	409.3	414.3
47.5°	4261.3	3821.0	2448.4	858.2	306.7	274.5	275.8	312.9	377.2	414.3	414.3
50°	4363.9	3908.8	2305.0	672.7	291.8	264.6	277.0	319.0	380.9	413.0	411.8
52.5°	4482.6	3948.4	2101.0	544.1	277.0	256.0	278.2	324.0	374.7	393.2	390.8
55°	4519.7	3920.0	2003.3	455.1	265.9	251.0	283.2	331.4	372.2	375.9	369.7
57.5°	4519.7	3843.3	1892.0	388.3	256.0	251.0	285.7	330.2	385.8	409.3	406.8
60°	4499.9	3762.9	1721.3	347.5	242.4	248.6	286.9	348.7	458.8	484.7	483.5
62.5°	4436.9	3633.1	1511.1	306.7	228.8	249.8	283.2	374.7	524.3	513.2	486.0
65°	4287.2	3388.2	1225.5	269.6	213.9	249.8	278.2	411.8	466.2	445.2	435.3
67.5°	4005.3	3080.3	911.4	231.2	196.6	233.7	270.8	385.8	395.7	372.2	357.4
70°	3633.1	2609.2	584.9	195.4	178.1	220.1	265.9	362.3	382.1	353.7	335.1
72.5°	3027.2	2072.5	338.8	159.5	150.9	202.8	256.0	351.2	375.9	337.6	311.6
75°	2135.6	1308.3	222.6	117.5	121.2	173.1	237.4	328.9	352.4	305.4	268.3
77.5°	1088.2	490.9	158.3	86.6	81.6	132.3	205.3	303.0	347.5	307.9	263.4
80°	384.6	247.3	103.9	56.9	53.2	81.6	157.0	257.2	326.5	300.5	291.8
82.5°	164.5	123.7	56.9	35.9	32.2	40.8	89.0	202.8	286.9	272.0	328.9
85°	23.5	21.0	16.1	13.6	13.6	18.5	28.4	100.2	194.1	221.3	268.3
87.5°	3.7	3.7	3.7	2.5	2.5	2.5	1.2	14.8	64.3	96.5	133.6
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)