

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: P509301

Luminaire Tested: **VERD-CA2-70-727-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-70-727-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 980mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8855 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

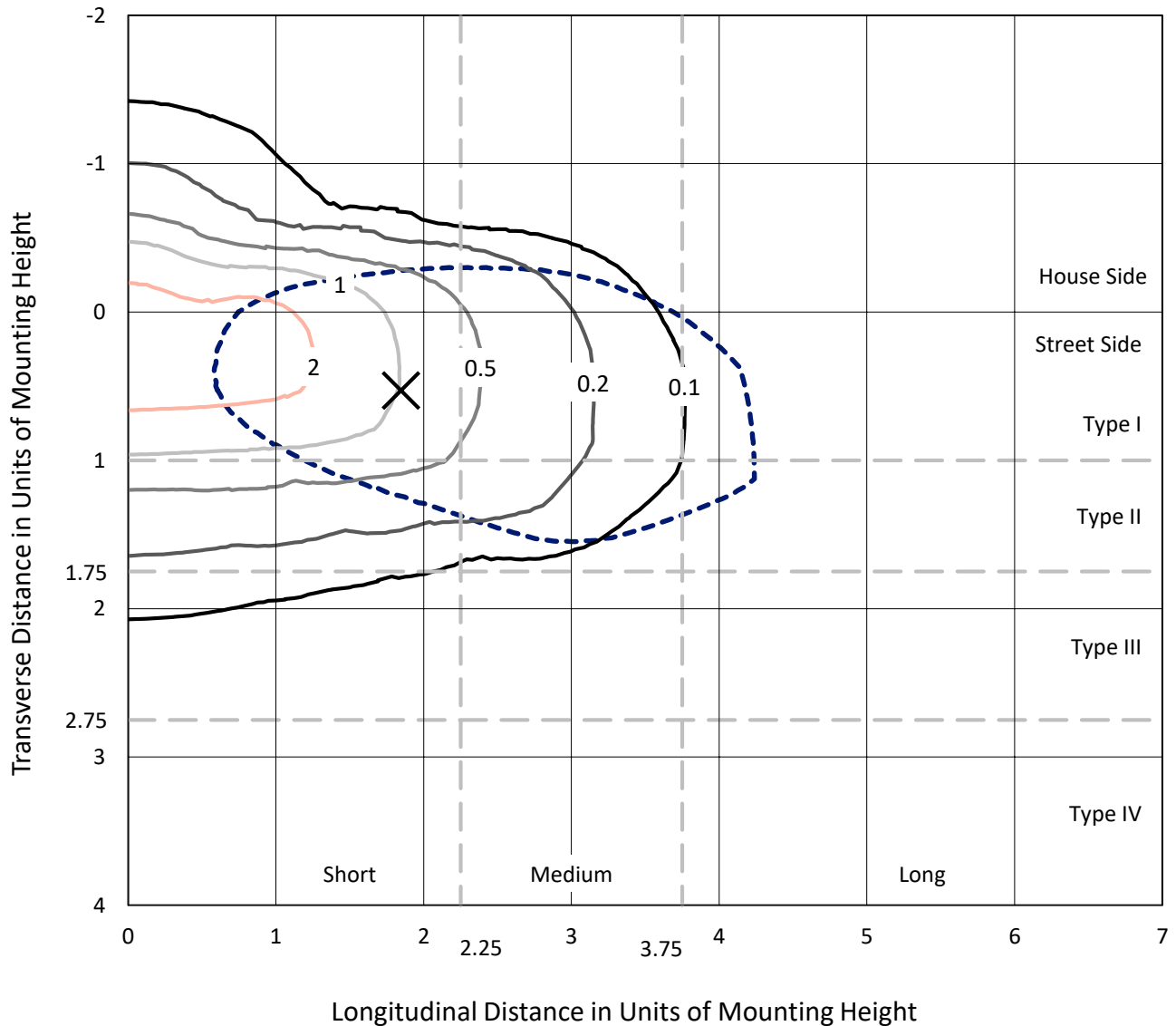
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

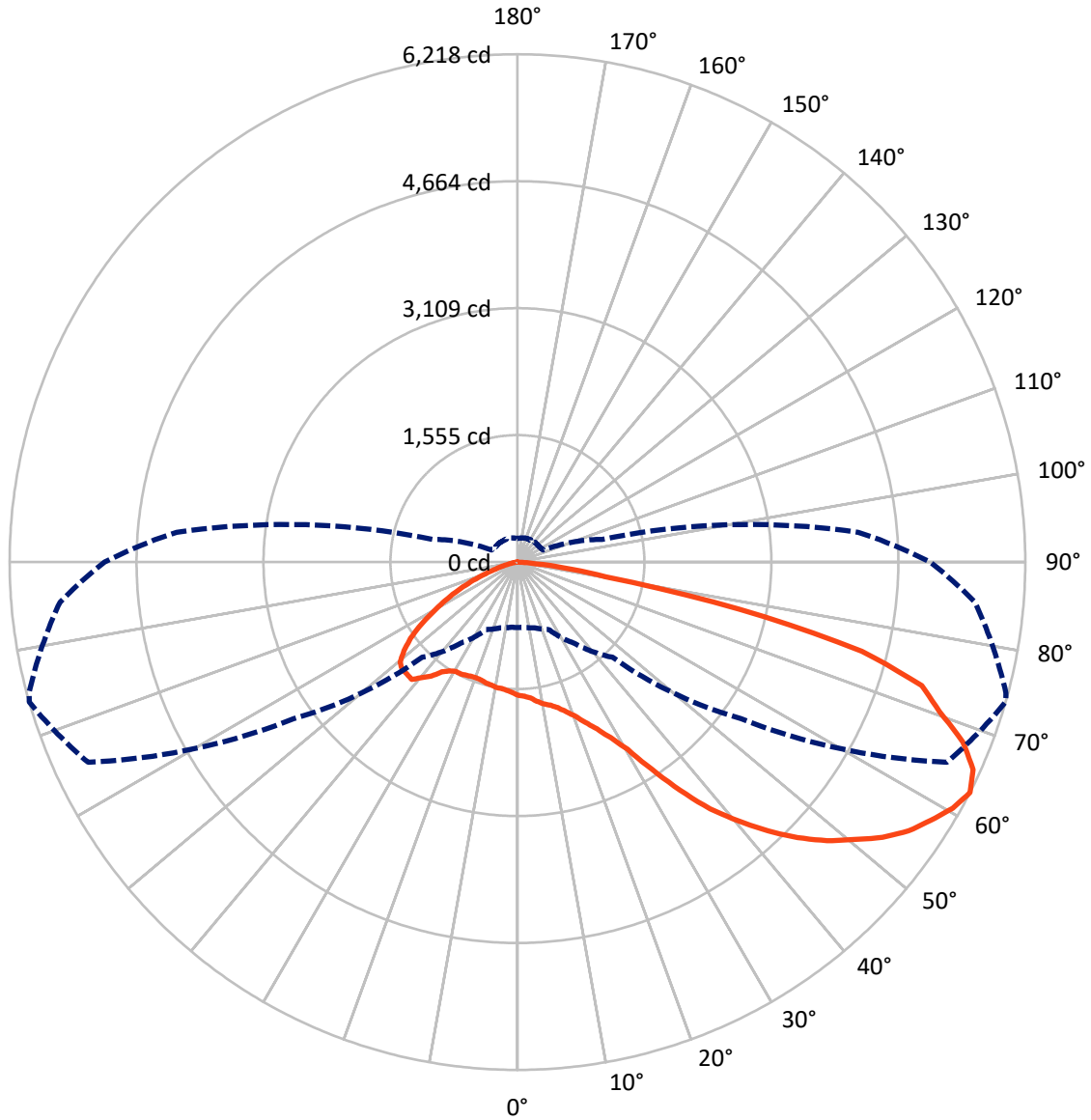
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2286.4	0.0	2286.4
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	6568.6	0.0	6568.6
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	8855.0	0.0	8855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	1.8
10°-20°	478.4	5.4
20°-30°	806.6	9.1
30°-40°	1178.5	13.3
40°-50°	1569.2	17.7
50°-60°	1805.9	20.4
60°-70°	1745.1	19.7
70°-80°	1004.6	11.3
80°-90°	109.9	1.2
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°	8855.0	100.0
0°-180°	8855.0	100.0

**Coefficient of Utilization**



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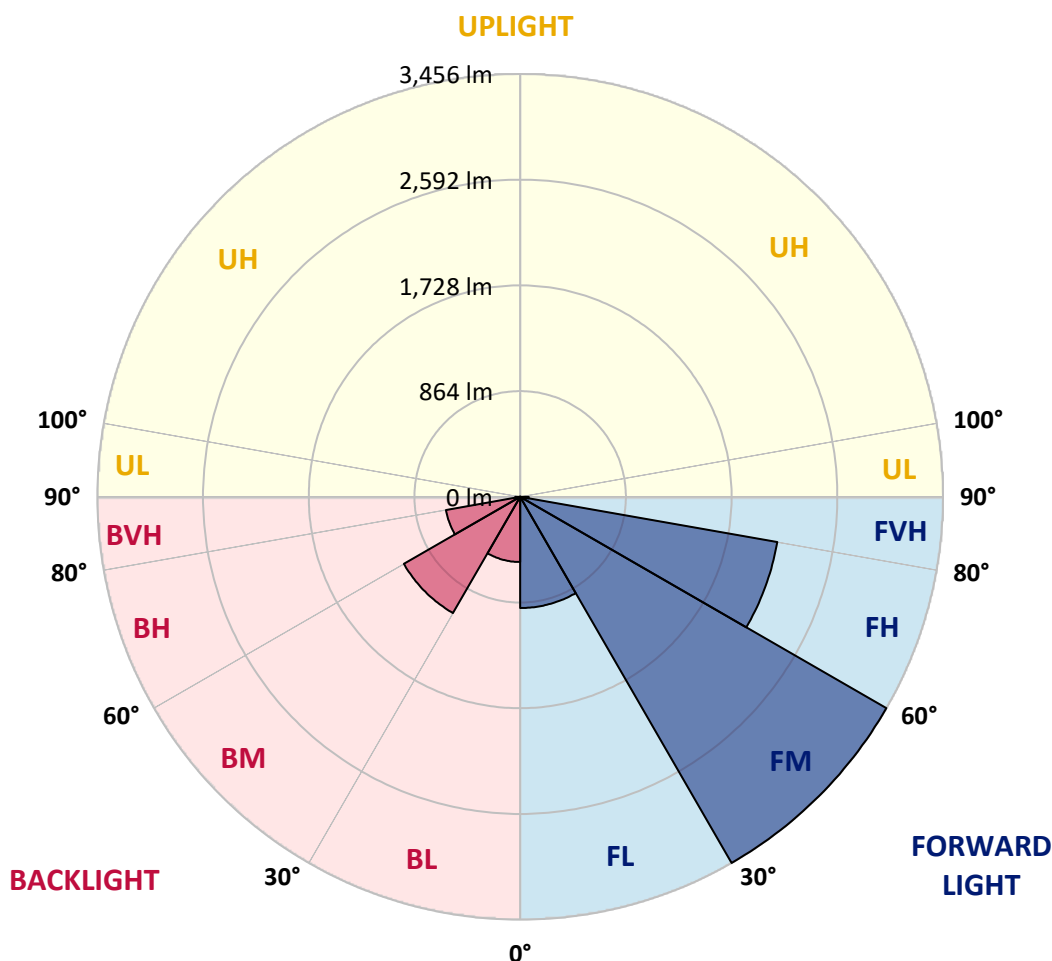
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.8	10.3			
FM (30°-60°)	3456.1	39.0			
FH (60°-80°)	2134.1	24.1			G2/5000
FVH (80°-90°)	69.5	0.8			G1/100
BL (0°-30°)	533.1	6.0	B2/1000		
BM (30°-60°)	1097.4	12.4	B2/2500		
BH (60°-80°)	615.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	40.4	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8
2.5°	1747.7	1735.2	1727.4	1718.8	1708.1	1704.3	1681.1	1660.8	1644.4	1645.4	1634.7
5°	1811.5	1797.9	1780.6	1777.7	1764.1	1761.2	1739.0	1707.2	1671.4	1666.6	1634.7
7.5°	1882.9	1875.2	1864.6	1851.0	1828.8	1814.3	1782.5	1757.4	1720.7	1715.9	1653.1
10°	1969.8	1964.0	1956.3	1956.3	1927.3	1896.4	1857.8	1795.0	1766.1	1761.2	1685.0
12.5°	2072.2	2054.8	2029.7	2015.2	1988.2	1968.8	1927.3	1860.7	1797.9	1796.0	1714.9
15°	2138.8	2124.3	2107.9	2102.1	2067.3	2035.5	1991.1	1937.9	1850.1	1843.3	1751.6
17.5°	2213.1	2199.6	2180.3	2169.7	2147.5	2110.8	2071.2	2001.7	1923.5	1916.7	1793.1
20°	2254.7	2240.2	2234.4	2236.3	2228.6	2210.2	2162.9	2100.2	2010.4	2001.7	1850.1
22.5°	2301.0	2291.3	2293.3	2307.8	2322.2	2315.5	2278.8	2209.3	2132.0	2118.5	1941.8
25°	2302.0	2294.2	2320.3	2376.3	2407.2	2422.7	2403.4	2346.4	2264.3	2251.8	2058.6
27.5°	2318.4	2306.8	2334.8	2393.7	2487.4	2519.2	2526.0	2504.7	2434.3	2418.8	2198.7
30°	2275.9	2268.2	2310.7	2413.0	2523.1	2629.3	2667.9	2700.8	2661.2	2662.1	2414.9
32.5°	2202.5	2189.0	2253.7	2379.2	2583.9	2728.8	2831.1	2963.4	3024.2	3018.4	2791.5
35°	2062.5	2070.2	2157.1	2349.3	2585.9	2830.1	3031.0	3267.6	3432.7	3428.8	3181.6
37.5°	1963.0	1959.2	2061.5	2265.3	2584.9	2919.9	3225.1	3619.0	3832.4	3826.6	3516.7
40°	1843.3	1844.3	1946.6	2161.0	2539.5	2976.0	3425.9	3952.2	4169.4	4160.7	3837.3
42.5°	1714.9	1718.8	1814.3	2033.5	2476.7	3018.4	3605.5	4289.2	4499.7	4507.4	4094.1
45°	1600.0	1601.9	1696.5	1897.4	2365.7	3023.3	3766.8	4607.8	4812.5	4794.2	4363.5
47.5°	1431.0	1432.9	1572.9	1768.0	2218.9	2983.7	3900.0	4911.0	5098.3	5059.7	4591.4
50°	1121.1	1124.9	1291.0	1633.8	2040.3	2892.9	4005.3	5195.8	5340.7	5324.3	4825.1
52.5°	1035.1	1032.2	1101.7	1473.5	1880.0	2728.8	4071.9	5451.7	5598.5	5596.6	5018.2
55°	991.7	988.8	1011.9	1194.4	1722.6	2485.4	4070.0	5650.6	5811.9	5772.3	5194.9
57.5°	914.4	908.6	968.5	1058.3	1546.9	2182.2	3973.4	5829.3	5966.4	5954.8	5354.2
60°	859.4	854.5	895.1	978.1	1359.6	1874.2	3725.3	5922.0	6121.9	6126.7	5488.4
62.5°	802.4	799.5	834.3	911.5	1212.8	1649.2	3342.9	5800.3	6218.4	6192.3	5622.6
65°	737.7	735.8	768.6	831.4	1067.0	1478.3	2968.2	5583.1	6131.5	6161.4	5640.0
67.5°	660.5	659.5	691.4	734.8	907.7	1306.4	2394.7	5327.2	5883.4	5850.5	5417.0
70°	565.8	562.0	601.6	642.1	759.9	1111.4	1863.6	4872.4	5479.7	5598.5	4972.8
72.5°	476.0	474.1	511.8	541.7	629.6	907.7	1359.6	4213.8	5177.5	5006.6	4480.3
75°	372.7	363.1	402.7	430.7	496.3	722.3	927.0	2814.7	4357.7	4322.0	3763.9
77.5°	150.6	174.8	208.6	233.7	277.1	409.4	484.7	1335.4	2779.9	2902.6	2617.7
80°	57.9	61.8	148.7	168.0	186.4	235.6	186.4	562.9	1096.9	1196.4	1516.0
82.5°	32.8	36.7	73.4	70.5	69.5	59.9	69.5	276.2	572.6	627.6	731.9
85°	18.3	20.3	29.9	32.8	28.0	24.1	21.2	72.4	142.9	135.2	151.6
87.5°	2.9	3.9	4.8	4.8	2.9	2.9	2.9	3.9	3.9	3.9	4.8
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°	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8	1632.8
2.5°	1624.1	1613.5	1602.9	1590.3	1574.9	1565.2	1561.4	1566.2	1579.7	1563.3	1549.8
5°	1618.3	1603.8	1579.7	1555.6	1536.3	1519.8	1497.6	1495.7	1499.6	1492.8	1475.4
7.5°	1630.9	1609.6	1560.4	1544.0	1503.4	1464.8	1452.2	1447.4	1435.8	1422.3	1405.9
10°	1656.0	1612.5	1562.3	1514.0	1476.4	1434.9	1386.6	1387.6	1382.7	1367.3	1351.8
12.5°	1668.5	1617.4	1544.0	1492.8	1434.9	1383.7	1336.4	1315.1	1323.8	1311.3	1294.9
15°	1691.7	1637.6	1537.2	1461.9	1382.7	1324.8	1289.1	1258.2	1238.9	1241.8	1232.1
17.5°	1735.2	1656.0	1519.8	1428.1	1342.2	1273.6	1205.1	1202.2	1173.2	1156.8	1142.3
20°	1780.6	1688.8	1517.9	1391.4	1276.5	1191.5	1136.5	1105.6	1088.2	1074.7	1064.1
22.5°	1839.5	1734.2	1524.7	1370.2	1217.6	1122.0	1051.5	1010.0	982.0	972.4	964.6
25°	1922.5	1791.2	1543.0	1332.5	1155.8	1045.7	950.1	906.7	874.8	867.1	861.3
27.5°	2036.4	1863.6	1561.4	1292.0	1083.4	938.6	837.2	794.7	759.0	758.0	747.4
30°	2216.0	1974.6	1568.1	1256.2	1006.1	823.6	722.3	682.7	655.6	645.0	652.7
32.5°	2551.1	2219.9	1610.6	1201.2	908.6	711.6	625.7	593.8	563.9	552.3	560.0
35°	2913.2	2513.4	1682.1	1163.5	801.4	605.4	546.5	508.9	472.2	466.4	463.5
37.5°	3178.7	2780.9	1817.2	1101.7	700.1	540.7	463.5	432.6	411.3	399.8	410.4
40°	3480.0	3003.0	1919.6	1036.1	596.7	472.2	386.2	376.6	366.9	359.2	370.8
42.5°	3718.5	3231.8	2041.3	949.2	513.7	400.7	343.8	351.5	356.3	352.4	353.4
45°	3937.7	3401.8	2049.0	816.9	438.4	347.6	331.2	346.6	358.2	356.3	355.3
47.5°	4152.0	3604.6	2067.3	676.9	384.3	334.1	332.2	343.8	359.2	362.1	362.1
50°	4373.2	3759.0	2039.3	544.6	364.0	336.0	335.1	334.1	353.4	354.4	357.3
52.5°	4539.2	3884.6	1907.0	450.0	363.1	341.8	339.9	330.2	338.9	345.7	340.9
55°	4715.0	4041.0	1740.0	414.2	361.1	343.8	351.5	335.1	329.3	323.5	329.3
57.5°	4882.0	4150.1	1520.8	393.0	353.4	340.9	356.3	334.1	321.5	305.1	299.3
60°	5010.5	4175.2	1276.5	370.8	343.8	334.1	335.1	327.3	310.9	290.6	282.0
62.5°	5053.9	4189.7	1073.7	349.5	324.4	323.5	315.7	312.9	306.1	293.5	289.7
65°	5017.2	4025.6	857.4	323.5	308.0	309.0	297.4	287.7	272.3	252.0	250.1
67.5°	4765.2	3736.8	657.6	290.6	282.9	292.6	280.0	263.6	246.2	232.7	234.6
70°	4333.6	3395.0	461.6	245.3	254.0	271.3	266.5	245.3	225.9	214.4	216.3
72.5°	3853.7	2876.5	313.8	191.2	206.6	243.3	243.3	228.8	209.5	194.1	190.2
75°	3039.7	2259.5	202.8	126.5	136.1	198.9	215.3	193.1	171.9	162.2	158.4
77.5°	2063.5	1471.6	129.4	72.4	90.8	130.4	169.9	172.8	203.7	204.7	196.0
80°	1212.8	842.0	79.2	42.5	45.4	75.3	136.1	170.9	216.3	152.6	140.0
82.5°	603.5	359.2	35.7	26.1	27.0	37.7	73.4	196.0	167.0	95.6	91.7
85°	134.2	58.9	14.5	13.5	15.4	19.3	37.7	162.2	102.4	77.2	75.3
87.5°	4.8	3.9	3.9	3.9	2.9	2.9	7.7	53.1	40.6	33.8	31.9
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)