

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: P509341

Luminaire Tested: **VERD-CA2-80-722-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509341
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-CA2-80-722-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1100mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9413 lumens
Efficiency: N/A
Efficacy: 114.2 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

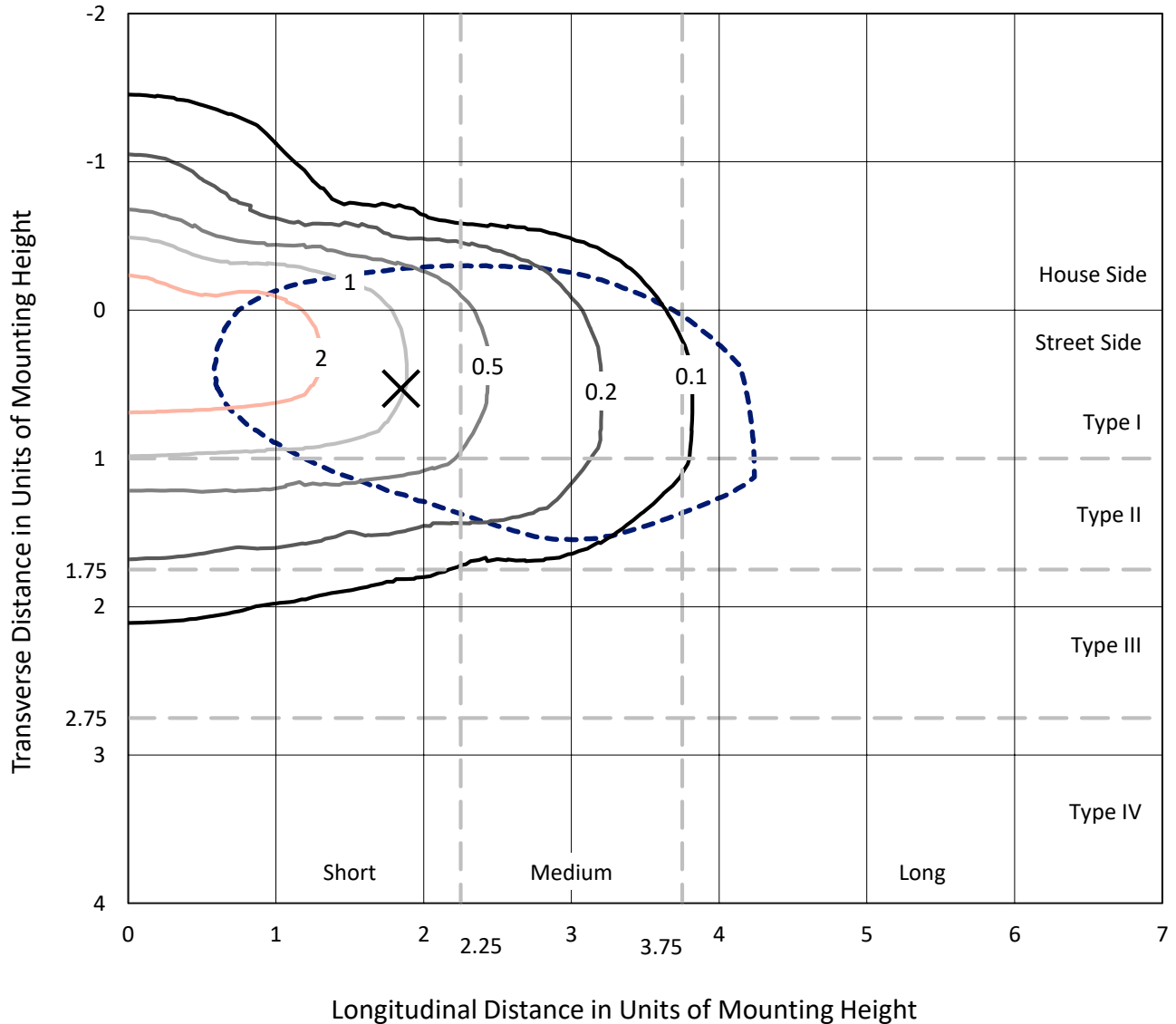
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

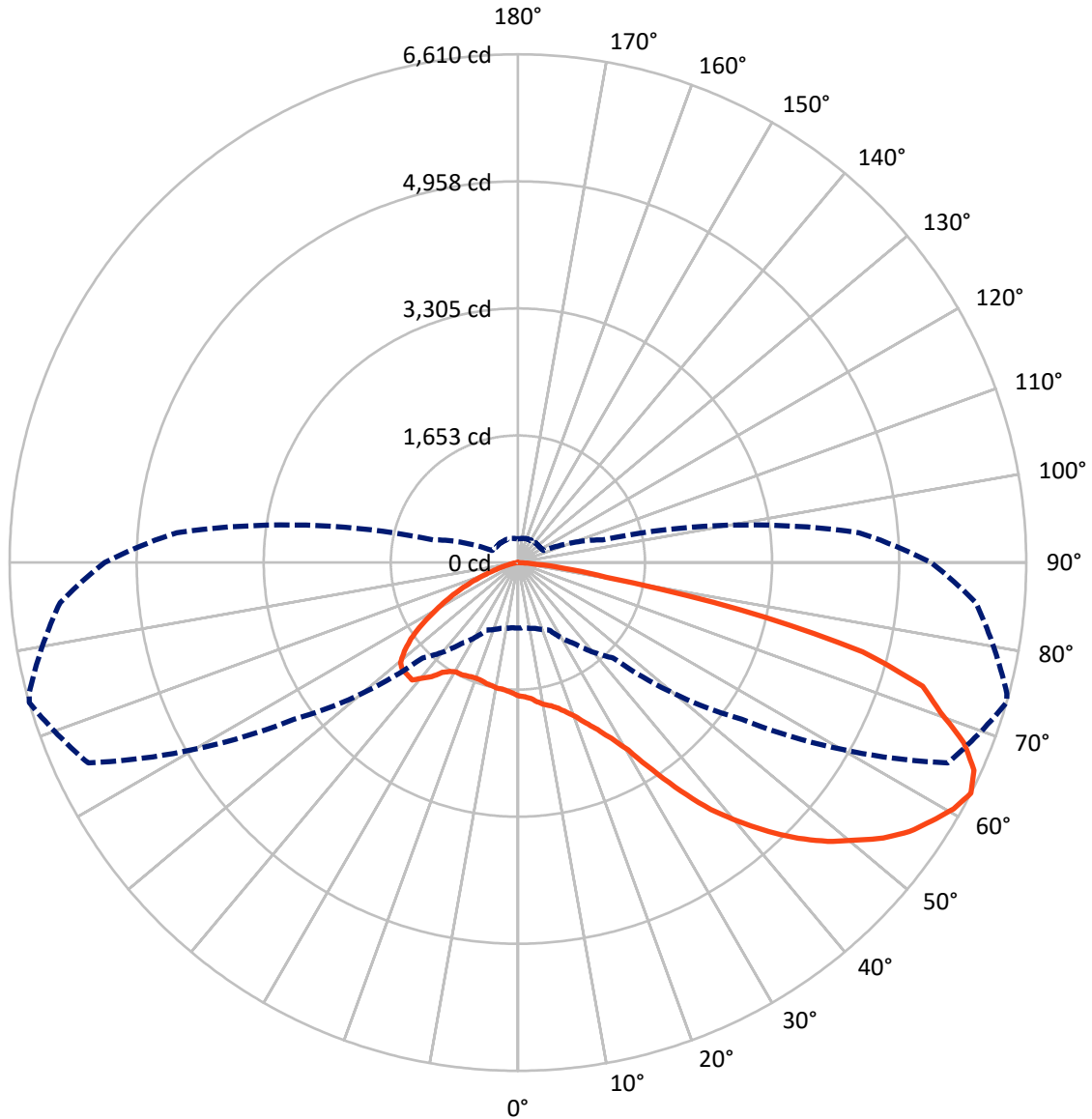
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type 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
House Side	Lumens	2430.5	0.0	2430.5
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	6982.5	0.0	6982.5
	% Fixture	74.2	0.0	74.2
Total	Lumens	9413.0	0.0	9413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.8
10°-20°	508.5	5.4
20°-30°	857.4	9.1
30°-40°	1252.8	13.3
40°-50°	1668.1	17.7
50°-60°	1919.7	20.4
60°-70°	1855.0	19.7
70°-80°	1067.9	11.3
80°-90°	116.8	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°	9413.0	100.0
0°-180°	9413.0	100.0

Coefficient of Utilization



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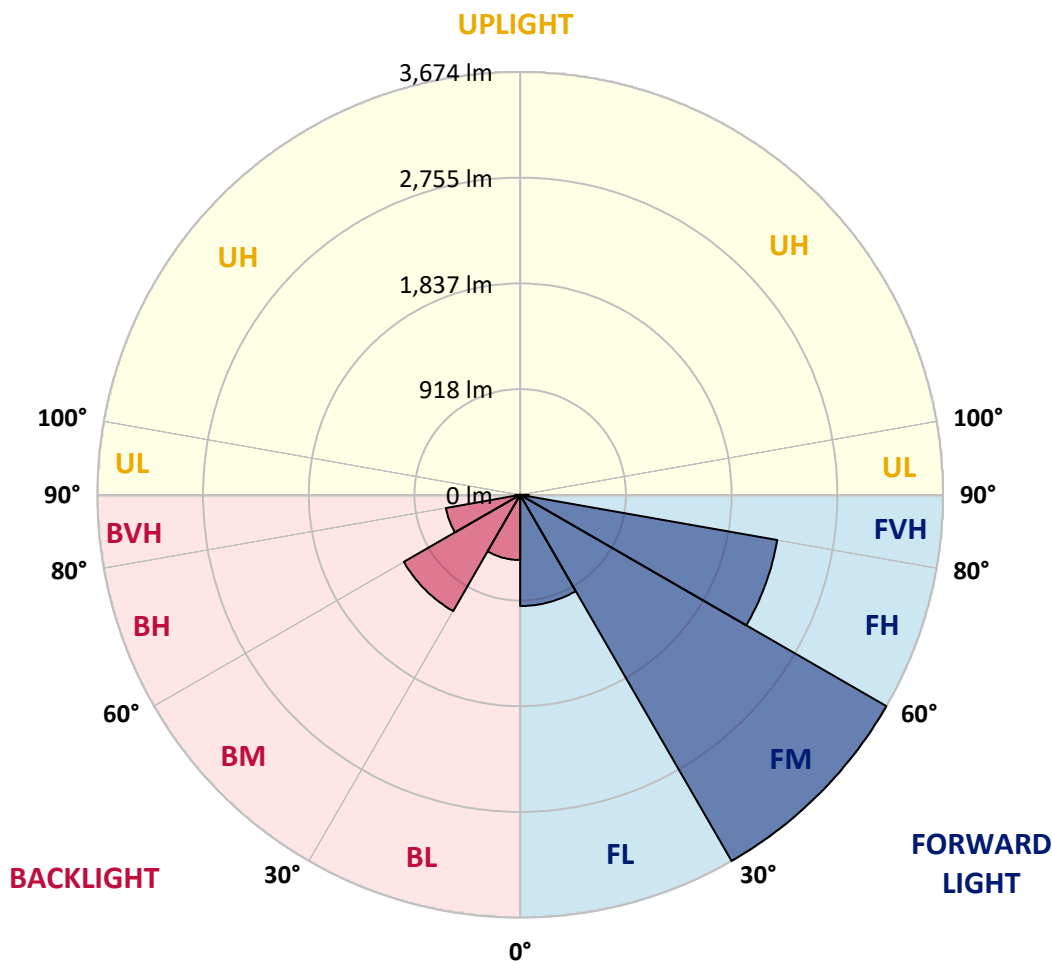
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.1	10.3			
FM	(30°-60°)	3673.9	39.0			
FH	(60°-80°)	2268.6	24.1			G2/5000
FVH	(80°-90°)	73.9	0.8			G1/100
BL	(0°-30°)	566.7	6.0	B2/1000		
BM	(30°-60°)	1166.6	12.4	B2/2500		
BH	(60°-80°)	654.3	7.0	B2/1000		G2/1000
BVH	(80°-90°)	42.9	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°	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7
2.5°	1857.9	1844.5	1836.3	1827.1	1815.8	1811.7	1787.0	1765.5	1748.0	1749.1	1737.8
5°	1925.6	1911.2	1892.8	1889.7	1875.3	1872.2	1848.6	1814.7	1776.8	1771.6	1737.8
7.5°	2001.6	1993.3	1982.1	1967.7	1944.1	1928.7	1894.8	1868.1	1829.1	1824.0	1757.3
10°	2093.9	2087.8	2079.6	2079.6	2048.8	2015.9	1974.9	1908.1	1877.4	1872.2	1791.1
12.5°	2202.7	2184.3	2157.6	2142.2	2113.4	2092.9	2048.8	1977.9	1911.2	1909.2	1823.0
15°	2273.6	2258.2	2240.7	2234.6	2197.6	2163.7	2116.5	2060.1	1966.7	1959.5	1862.0
17.5°	2352.6	2338.2	2317.7	2306.4	2282.8	2243.8	2201.7	2127.8	2044.7	2037.5	1906.1
20°	2396.7	2381.3	2375.2	2377.2	2369.0	2349.5	2299.2	2232.5	2137.0	2127.8	1966.7
22.5°	2446.0	2435.7	2437.8	2453.2	2468.6	2461.4	2422.4	2348.5	2266.4	2252.0	2064.2
25°	2447.0	2438.8	2466.5	2526.1	2558.9	2575.3	2554.8	2494.2	2407.0	2393.7	2188.4
27.5°	2464.5	2452.2	2481.9	2544.5	2644.1	2678.0	2685.2	2662.6	2587.7	2571.2	2337.2
30°	2419.3	2411.1	2456.3	2565.1	2682.1	2795.0	2836.1	2870.9	2828.9	2829.9	2567.1
32.5°	2341.3	2326.9	2395.7	2529.1	2746.7	2900.7	3009.5	3150.1	3214.8	3208.6	2967.4
35°	2192.5	2200.7	2293.1	2497.3	2748.8	3008.5	3222.0	3473.5	3649.0	3644.9	3382.1
37.5°	2086.7	2082.6	2191.4	2408.0	2747.8	3104.0	3428.3	3847.1	4073.9	4067.8	3738.3
40°	1959.5	1960.5	2069.3	2297.2	2699.5	3163.5	3641.8	4201.2	4432.2	4422.9	4079.1
42.5°	1823.0	1827.1	1928.7	2161.7	2632.8	3208.6	3832.7	4559.4	4783.2	4791.4	4352.1
45°	1700.8	1702.9	1803.5	2017.0	2514.8	3213.8	4004.1	4898.2	5115.8	5096.3	4638.5
47.5°	1521.2	1523.2	1672.1	1879.4	2358.8	3171.7	4145.8	5220.5	5419.6	5378.5	4880.7
50°	1191.7	1195.8	1372.3	1736.7	2168.9	3075.2	4257.7	5523.3	5677.2	5659.8	5129.1
52.5°	1100.3	1097.3	1171.2	1566.3	1998.5	2900.7	4328.5	5795.3	5951.3	5949.2	5334.4
55°	1054.2	1051.1	1075.7	1269.7	1831.2	2642.1	4326.4	6006.7	6178.1	6136.1	5522.2
57.5°	972.0	965.9	1029.5	1125.0	1644.4	2319.8	4223.8	6196.6	6342.4	6330.0	5691.6
60°	913.5	908.4	951.5	1039.8	1445.2	1992.3	3960.0	6295.1	6507.6	6512.8	5834.3
62.5°	853.0	849.9	886.8	969.0	1289.2	1753.2	3553.5	6165.8	6610.3	6582.6	5977.0
65°	784.2	782.1	817.0	883.8	1134.2	1571.5	3155.3	5934.9	6517.9	6549.7	5995.4
67.5°	702.1	701.1	734.9	781.1	964.9	1388.8	2545.6	5662.9	6254.1	6219.2	5758.3
70°	601.5	597.4	639.5	682.6	807.8	1181.4	1981.0	5179.4	5825.0	5951.3	5286.2
72.5°	506.0	504.0	544.0	575.8	669.2	964.9	1445.2	4479.4	5503.8	5322.1	4762.7
75°	396.2	385.9	428.0	457.8	527.6	767.8	985.4	2992.1	4632.3	4594.3	4001.1
77.5°	160.1	185.8	221.7	248.4	294.6	435.2	515.3	1419.6	2955.1	3085.5	2782.7
80°	61.6	65.7	158.1	178.6	198.1	250.5	198.1	598.4	1166.0	1271.8	1611.5
82.5°	34.9	39.0	78.0	74.9	73.9	63.6	73.9	293.6	608.7	667.2	778.0
85°	19.5	21.6	31.8	34.9	29.8	25.7	22.6	77.0	151.9	143.7	161.2
87.5°	3.1	4.1	5.1	5.1	3.1	3.1	3.1	4.1	4.1	4.1	5.1
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°	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7	1735.7
2.5°	1726.5	1715.2	1703.9	1690.5	1674.1	1663.9	1659.8	1664.9	1679.3	1661.8	1647.4
5°	1720.3	1704.9	1679.3	1653.6	1633.1	1615.6	1592.0	1590.0	1594.1	1586.9	1568.4
7.5°	1733.7	1711.1	1658.7	1641.3	1598.2	1557.1	1543.8	1538.6	1526.3	1511.9	1494.5
10°	1760.3	1714.2	1660.8	1609.5	1569.4	1525.3	1474.0	1475.0	1469.9	1453.4	1437.0
12.5°	1773.7	1719.3	1641.3	1586.9	1525.3	1470.9	1420.6	1398.0	1407.2	1393.9	1376.5
15°	1798.3	1740.8	1634.1	1554.0	1469.9	1408.3	1370.3	1337.4	1316.9	1320.0	1309.7
17.5°	1844.5	1760.3	1615.6	1518.1	1426.7	1353.9	1281.0	1277.9	1247.1	1229.7	1214.3
20°	1892.8	1795.2	1613.6	1479.1	1357.0	1266.6	1208.1	1175.3	1156.8	1142.4	1131.1
22.5°	1955.4	1843.5	1620.7	1456.5	1294.3	1192.7	1117.8	1073.7	1043.9	1033.6	1025.4
25°	2043.6	1904.0	1640.2	1416.5	1228.6	1111.6	1010.0	963.8	930.0	921.7	915.6
27.5°	2164.8	1981.0	1659.8	1373.4	1151.7	997.7	889.9	844.8	806.8	805.8	794.5
30°	2355.7	2099.1	1666.9	1335.4	1069.5	875.6	767.8	725.7	697.0	685.7	693.9
32.5°	2711.9	2359.8	1712.1	1276.9	965.9	756.5	665.1	631.3	599.4	587.1	595.3
35°	3096.8	2671.8	1788.1	1236.9	851.9	643.6	581.0	540.9	501.9	495.8	492.7
37.5°	3379.0	2956.1	1931.8	1171.2	744.2	574.8	492.7	459.8	437.3	424.9	436.2
40°	3699.3	3192.2	2040.6	1101.4	634.3	501.9	410.6	400.3	390.0	381.8	394.2
42.5°	3952.8	3435.5	2169.9	1009.0	546.1	426.0	365.4	373.6	378.8	374.7	375.7
45°	4185.8	3616.1	2178.1	868.4	466.0	369.5	352.1	368.5	380.8	378.8	377.7
47.5°	4413.7	3831.7	2197.6	719.5	408.5	355.1	353.1	365.4	381.8	384.9	384.9
50°	4648.7	3995.9	2167.8	578.9	387.0	357.2	356.2	355.1	375.7	376.7	379.8
52.5°	4825.3	4129.4	2027.2	478.3	385.9	363.4	361.3	351.0	360.3	367.5	362.3
55°	5012.1	4295.6	1849.6	440.3	383.9	365.4	373.6	356.2	350.0	343.9	350.0
57.5°	5189.7	4411.6	1616.6	417.8	375.7	362.3	378.8	355.1	341.8	324.4	318.2
60°	5326.2	4438.3	1357.0	394.2	365.4	355.1	356.2	348.0	330.5	309.0	299.7
62.5°	5372.4	4453.7	1141.4	371.6	344.9	343.9	335.6	332.6	325.4	312.0	307.9
65°	5333.4	4279.2	911.5	343.9	327.4	328.5	316.1	305.9	289.5	267.9	265.8
67.5°	5065.5	3972.3	699.0	309.0	300.7	311.0	297.7	280.2	261.7	247.4	249.4
70°	4606.7	3609.0	490.6	260.7	270.0	288.4	283.3	260.7	240.2	227.9	229.9
72.5°	4096.5	3057.8	333.6	203.2	219.7	258.7	258.7	243.3	222.7	206.3	202.2
75°	3231.2	2401.9	215.6	134.5	144.7	211.4	228.9	205.3	182.7	172.4	168.3
77.5°	2193.5	1564.3	137.5	77.0	96.5	138.6	180.7	183.7	216.6	217.6	208.4
80°	1289.2	895.1	84.2	45.2	48.2	80.1	144.7	181.7	229.9	162.2	148.8
82.5°	641.5	381.8	38.0	27.7	28.7	40.0	78.0	208.4	177.6	101.6	97.5
85°	142.7	62.6	15.4	14.4	16.4	20.5	40.0	172.4	108.8	82.1	80.1
87.5°	5.1	4.1	4.1	4.1	3.1	3.1	8.2	56.5	43.1	35.9	33.9
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)