

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: P233462

Luminaire Tested: **VERD-C02-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02-D-U-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1140mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9707 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

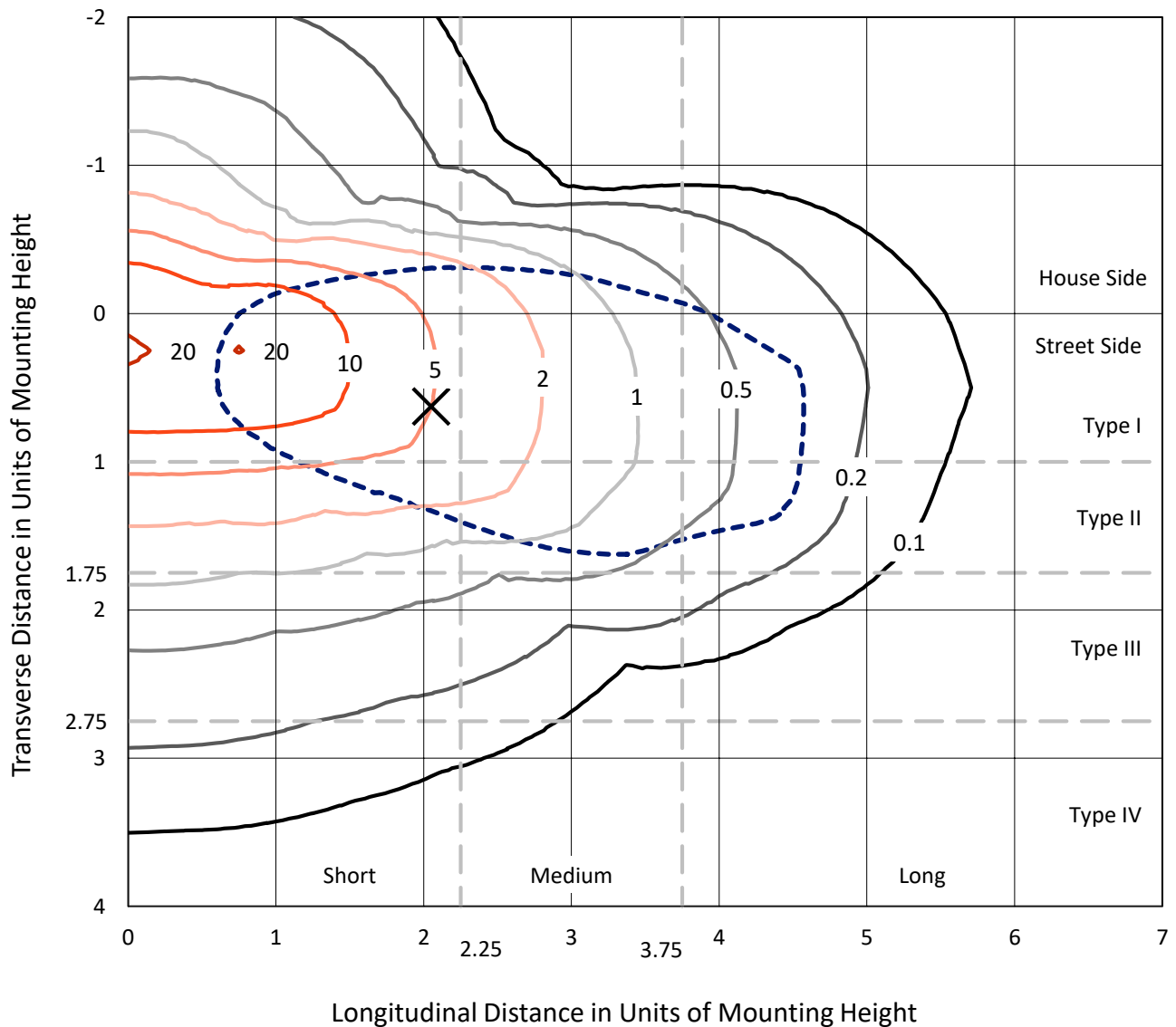
Input Watts (W): 90
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

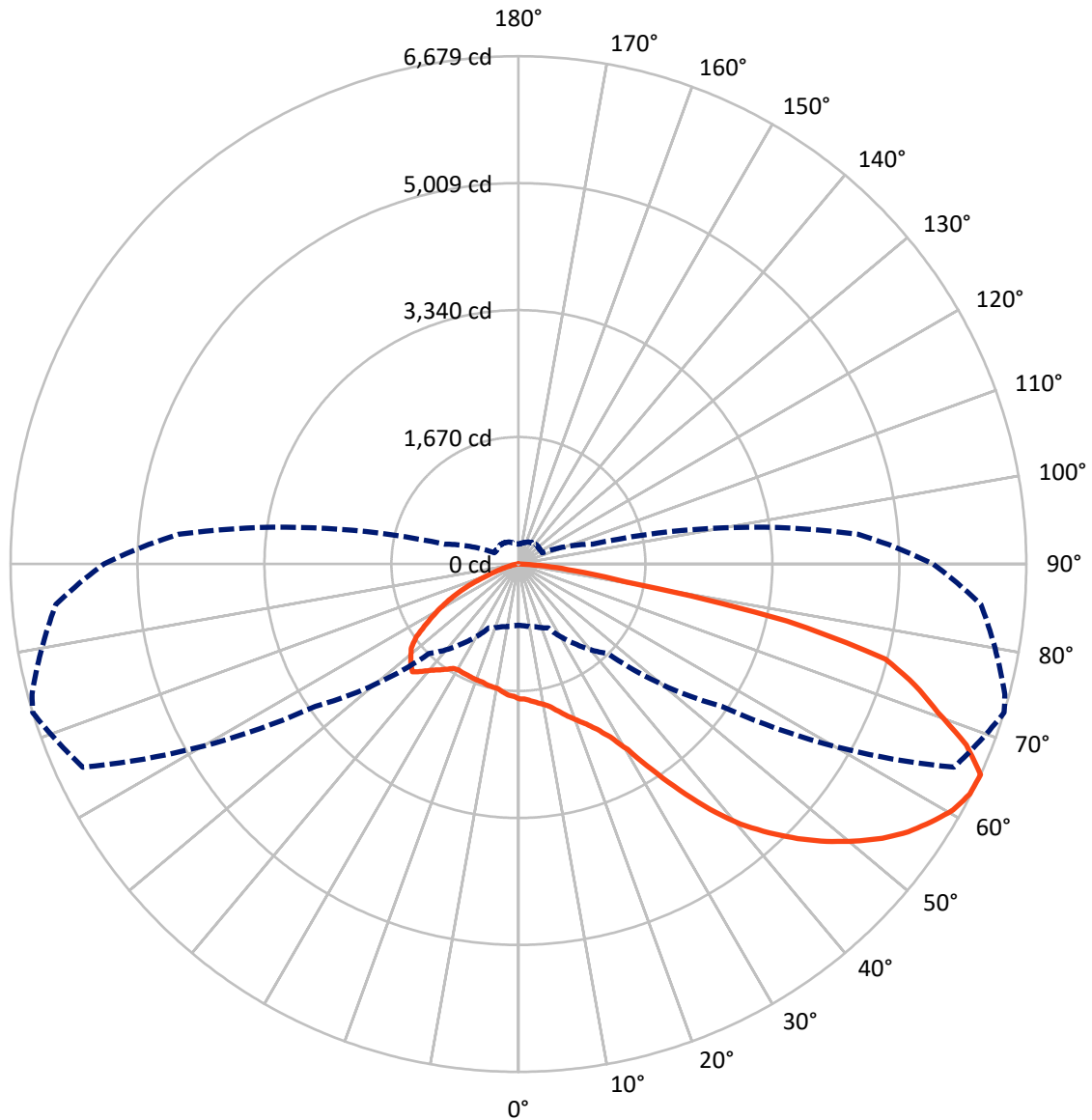


Based on 10 foot mounting height. Maximum calculated value = 20.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2488.3	0.0	2488.3
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	7218.7	0.0	7218.7
	% Fixture	74.4	0.0	74.4
Total	Lumens	9707.0	0.0	9707.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	1.7
10°-20°	512.1	5.3
20°-30°	859.0	8.8
30°-40°	1259.8	13.0
40°-50°	1702.6	17.5
50°-60°	1972.3	20.3
60°-70°	1926.6	19.8
70°-80°	1156.9	11.9
80°-90°	148.2	1.5
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°	9707.0	100.0
0°-180°	9707.0	100.0



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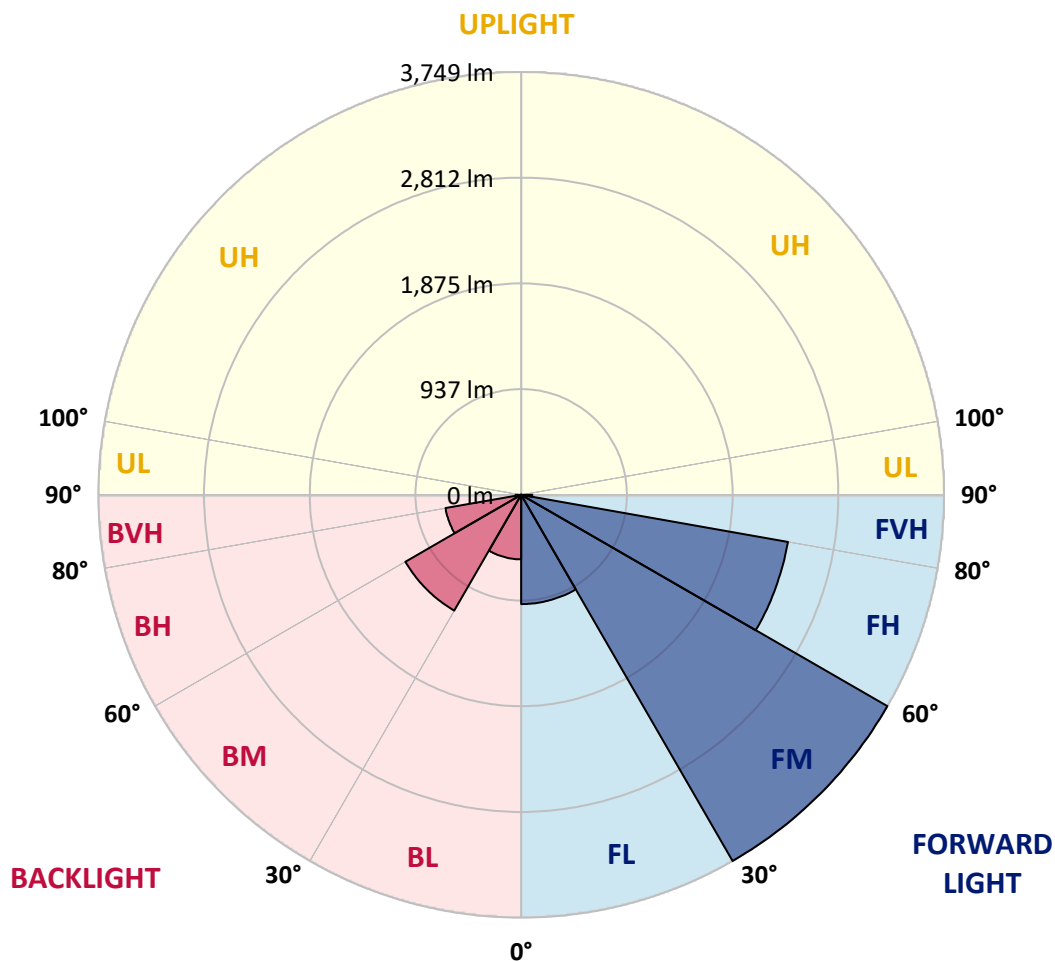
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.6	10.0			
FM (30°-60°)	3749.2	38.6			
FH (60°-80°)	2402.3	24.7			G2/5000
FVH (80°-90°)	98.7	1.0			G1/100
BL (0°-30°)	571.9	5.9	B2/1000		
BM (30°-60°)	1185.6	12.2	B2/2500		
BH (60°-80°)	681.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	49.5	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°	73°	75°	85°
0°	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1884.2	1891.2	1883.3	1860.4	1848.9	1841.0	1817.2	1796.1	1779.3	1777.6	1761.7
5°	1956.5	1967.0	1953.8	1924.7	1913.3	1896.5	1870.1	1841.0	1811.1	1804.9	1773.2
7.5°	2048.1	2049.9	2042.8	2013.7	1990.0	1954.7	1908.9	1878.0	1843.7	1834.0	1783.7
10°	2125.7	2124.8	2116.0	2087.8	2064.0	2033.1	1968.8	1918.6	1878.0	1865.7	1796.1
12.5°	2199.7	2197.9	2189.1	2160.0	2130.1	2104.5	2056.0	1988.2	1933.6	1917.7	1831.3
15°	2291.4	2286.9	2272.8	2234.1	2210.3	2180.3	2145.1	2077.2	2014.6	1992.6	1882.4
17.5°	2361.9	2361.0	2350.4	2317.8	2289.6	2257.0	2224.4	2171.5	2103.6	2079.0	1932.7
20°	2402.4	2398.9	2396.2	2370.7	2363.6	2346.0	2299.3	2258.7	2190.9	2165.3	1989.1
22.5°	2445.6	2446.5	2447.3	2434.1	2454.4	2439.4	2405.0	2355.7	2286.9	2257.9	2068.4
25°	2455.3	2457.0	2474.7	2503.7	2528.4	2555.7	2531.1	2482.6	2408.6	2377.7	2176.8
27.5°	2428.0	2435.0	2487.9	2537.2	2624.5	2659.7	2655.3	2652.7	2576.9	2546.0	2325.7
30°	2452.6	2452.6	2488.8	2573.4	2683.5	2776.1	2796.3	2852.7	2829.8	2807.8	2576.0
32.5°	2378.6	2391.8	2456.2	2574.2	2748.7	2883.6	2975.2	3132.1	3222.9	3204.4	2930.3
35°	2239.4	2257.0	2351.3	2531.9	2781.4	3010.5	3174.4	3476.7	3652.1	3674.1	3356.8
37.5°	2131.8	2146.8	2264.9	2465.8	2793.7	3129.5	3404.4	3864.5	4090.9	4079.5	3718.2
40°	2000.5	2027.0	2145.9	2387.4	2764.6	3230.8	3653.8	4220.5	4499.0	4446.1	4061.9
42.5°	1882.4	1905.3	2004.9	2262.3	2724.1	3288.1	3879.4	4587.1	4831.2	4788.9	4387.1
45°	1757.3	1777.6	1870.1	2112.5	2629.8	3316.3	4090.9	4937.9	5150.3	5102.7	4688.5
47.5°	1613.6	1641.0	1751.1	1971.4	2491.4	3298.7	4245.2	5242.8	5453.4	5418.2	4937.9
50°	1251.4	1279.6	1567.8	1839.3	2299.3	3225.5	4383.5	5547.7	5727.5	5694.0	5158.2
52.5°	1136.0	1148.3	1238.2	1687.7	2099.2	3081.0	4469.9	5798.9	5994.5	5961.0	5366.2
55°	1065.5	1074.3	1124.5	1378.3	1929.1	2848.3	4480.5	6059.8	6219.3	6175.2	5587.4
57.5°	993.2	1002.9	1058.4	1188.9	1758.2	2484.4	4368.6	6281.0	6401.7	6354.1	5798.9
60°	932.4	937.7	992.3	1082.2	1565.2	2123.0	4080.4	6431.7	6570.0	6508.3	6006.0
62.5°	876.9	883.9	923.6	1005.6	1403.0	1852.5	3678.5	6432.5	6662.6	6624.7	6110.9
65°	804.6	815.2	854.0	928.0	1271.7	1667.4	3262.5	6320.6	6679.3	6622.9	6105.6
67.5°	720.9	734.1	769.4	828.4	1097.2	1470.0	2682.6	6173.4	6352.3	6342.6	5853.5
70°	637.2	637.2	676.8	724.4	910.4	1258.5	2119.5	5649.1	5853.5	5868.5	5401.4
72.5°	537.6	539.3	570.2	611.6	733.2	1032.9	1544.0	4829.5	5456.9	5275.4	4871.8
75°	451.2	449.5	481.2	515.6	596.6	813.4	1007.3	3548.1	4987.2	5027.8	4287.5
77.5°	239.7	230.9	271.4	298.8	349.9	452.1	558.7	1779.3	3611.5	3690.8	3432.6
80°	67.9	68.7	179.8	200.9	230.0	223.8	259.1	678.6	1428.6	1610.1	2001.4
82.5°	40.5	46.7	102.2	119.9	89.9	58.2	98.7	377.2	739.4	828.4	993.2
85°	21.2	22.9	36.1	44.9	34.4	29.1	30.0	158.6	359.6	365.7	396.6
87.5°	9.7	9.7	13.2	14.1	8.8	5.3	3.5	2.6	2.6	1.8	1.8
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°	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9	1774.9
2.5°	1749.4	1758.2	1743.2	1731.7	1722.9	1717.6	1711.5	1696.5	1700.9	1707.1	1706.2
5°	1758.2	1762.6	1736.1	1700.0	1666.5	1642.7	1626.9	1603.1	1603.1	1612.8	1612.8
7.5°	1766.1	1759.9	1706.2	1645.4	1607.5	1588.1	1562.5	1537.0	1532.6	1539.6	1540.5
10°	1770.5	1744.1	1669.2	1612.8	1563.4	1523.8	1491.1	1462.1	1461.2	1470.9	1472.6
12.5°	1789.9	1738.8	1666.5	1589.0	1514.9	1472.6	1433.9	1401.3	1389.8	1390.7	1392.4
15°	1819.9	1759.9	1663.0	1556.4	1476.2	1419.8	1363.4	1321.9	1311.4	1325.5	1330.7
17.5°	1856.0	1794.3	1646.2	1526.4	1428.6	1360.7	1304.3	1267.3	1233.8	1218.8	1216.2
20°	1903.6	1823.4	1655.1	1482.3	1382.7	1292.0	1221.5	1176.5	1148.3	1146.6	1144.8
22.5°	1966.2	1856.0	1656.8	1453.2	1310.5	1216.2	1128.9	1103.4	1053.1	1034.6	1042.6
25°	2049.0	1905.3	1652.4	1422.4	1255.0	1128.1	1023.2	976.5	958.0	936.8	938.6
27.5°	2155.6	1983.8	1663.9	1381.9	1164.2	1020.5	903.3	853.1	824.9	807.3	809.9
30°	2372.4	2102.8	1663.0	1343.1	1080.5	909.5	777.3	743.8	715.6	699.7	707.7
32.5°	2680.9	2361.0	1700.0	1291.1	985.3	760.6	671.5	633.6	609.9	592.2	596.6
35°	3062.5	2642.1	1795.2	1220.6	876.9	646.9	586.1	539.3	510.3	503.2	500.6
37.5°	3416.8	2890.6	1885.1	1173.9	752.6	584.3	507.6	460.9	435.4	444.2	444.2
40°	3733.1	3220.2	1986.4	1099.0	639.8	512.9	420.4	399.2	386.0	401.0	406.3
42.5°	3972.0	3536.6	2123.9	1000.3	548.2	428.3	359.6	374.5	379.8	390.4	387.8
45°	4268.1	3717.3	2259.6	908.6	468.0	356.9	347.2	378.1	390.4	400.1	395.7
47.5°	4540.4	3857.4	2232.3	739.4	393.9	345.5	353.4	378.1	399.2	415.1	412.4
50°	4774.8	4032.8	2180.3	574.6	378.1	356.0	359.6	368.4	400.1	410.7	410.7
52.5°	4921.1	4206.4	2116.0	464.4	389.5	369.3	363.1	362.2	383.4	391.3	384.2
55°	5097.4	4386.2	1949.4	431.0	393.9	378.1	372.8	364.9	371.0	364.9	368.4
57.5°	5293.0	4563.3	1693.8	421.3	391.3	375.4	403.6	361.3	357.8	335.8	330.5
60°	5464.9	4632.9	1470.0	399.2	377.2	368.4	375.4	356.9	339.3	310.2	298.8
62.5°	5529.2	4626.8	1242.6	376.3	356.0	357.8	356.9	343.7	327.8	298.8	291.7
65°	5451.7	4485.8	1007.3	349.0	339.3	346.3	337.5	318.1	291.7	267.9	261.7
67.5°	5189.0	4126.2	748.2	312.9	312.0	325.2	319.0	292.6	263.5	245.0	245.0
70°	4686.7	3683.8	484.7	260.0	279.4	302.3	302.3	274.1	236.2	220.3	224.7
72.5°	4136.8	3170.0	313.7	193.0	220.3	274.1	272.3	252.9	217.7	197.4	198.3
75°	3583.3	2515.2	202.7	133.1	142.8	233.5	241.5	206.2	169.2	144.5	140.1
77.5°	2724.1	1892.1	128.7	77.6	90.8	142.8	183.3	171.9	172.7	210.6	208.9
80°	1675.3	1140.4	93.4	37.9	44.9	93.4	148.1	163.9	230.0	151.6	139.2
82.5°	839.0	533.2	49.4	22.9	25.6	41.4	88.1	196.5	167.4	100.5	95.2
85°	313.7	143.7	15.0	11.5	14.1	21.2	36.1	179.8	106.6	80.2	78.4
87.5°	1.8	2.6	2.6	3.5	5.3	6.2	13.2	85.5	53.8	38.8	37.0
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)