

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: P509245

Luminaire Tested: **VERD-CA2-60-722-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509245
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-CA2-60-722-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 850mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7474 lumens
Efficiency: N/A
Efficacy: 117.9 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

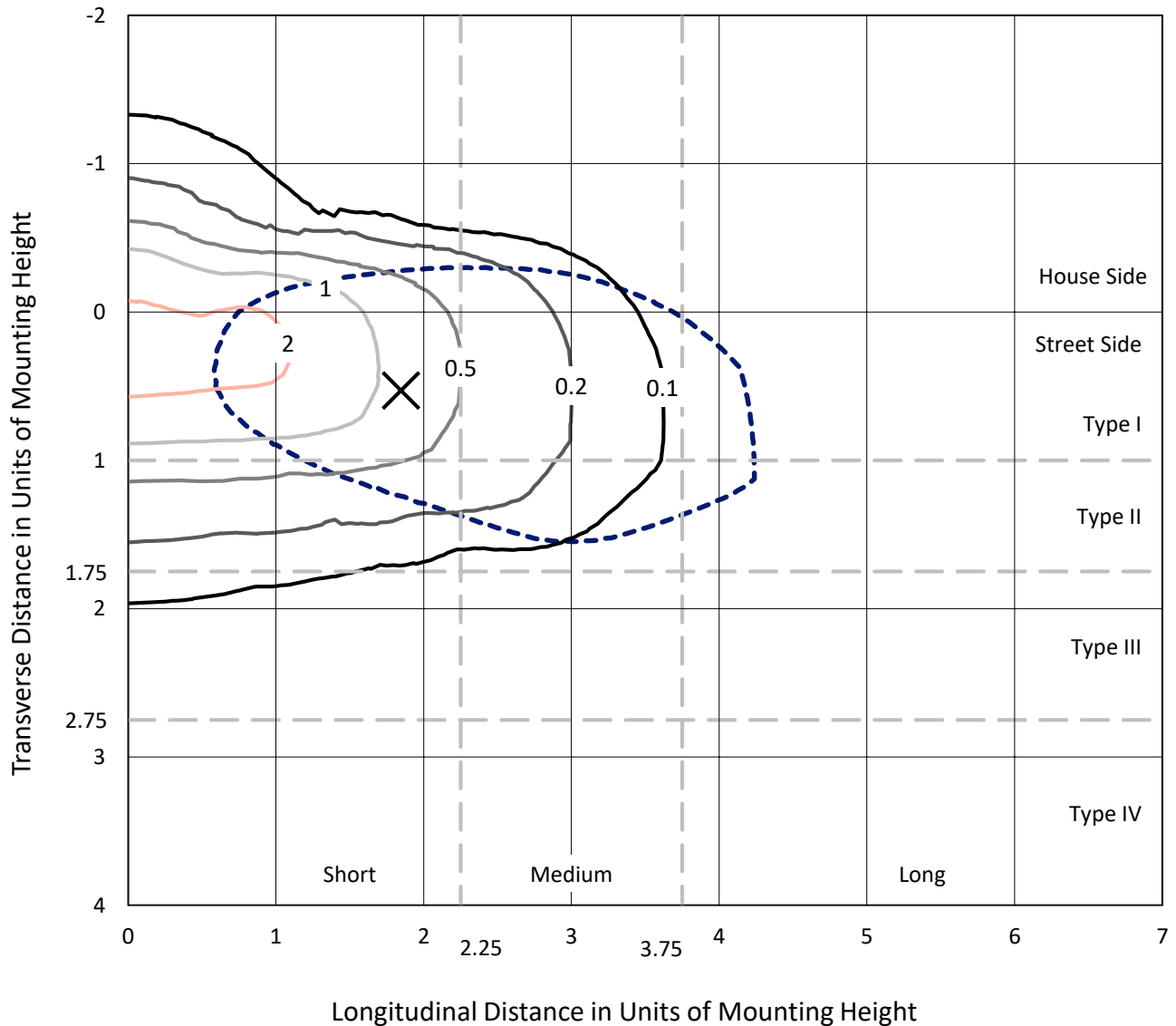
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

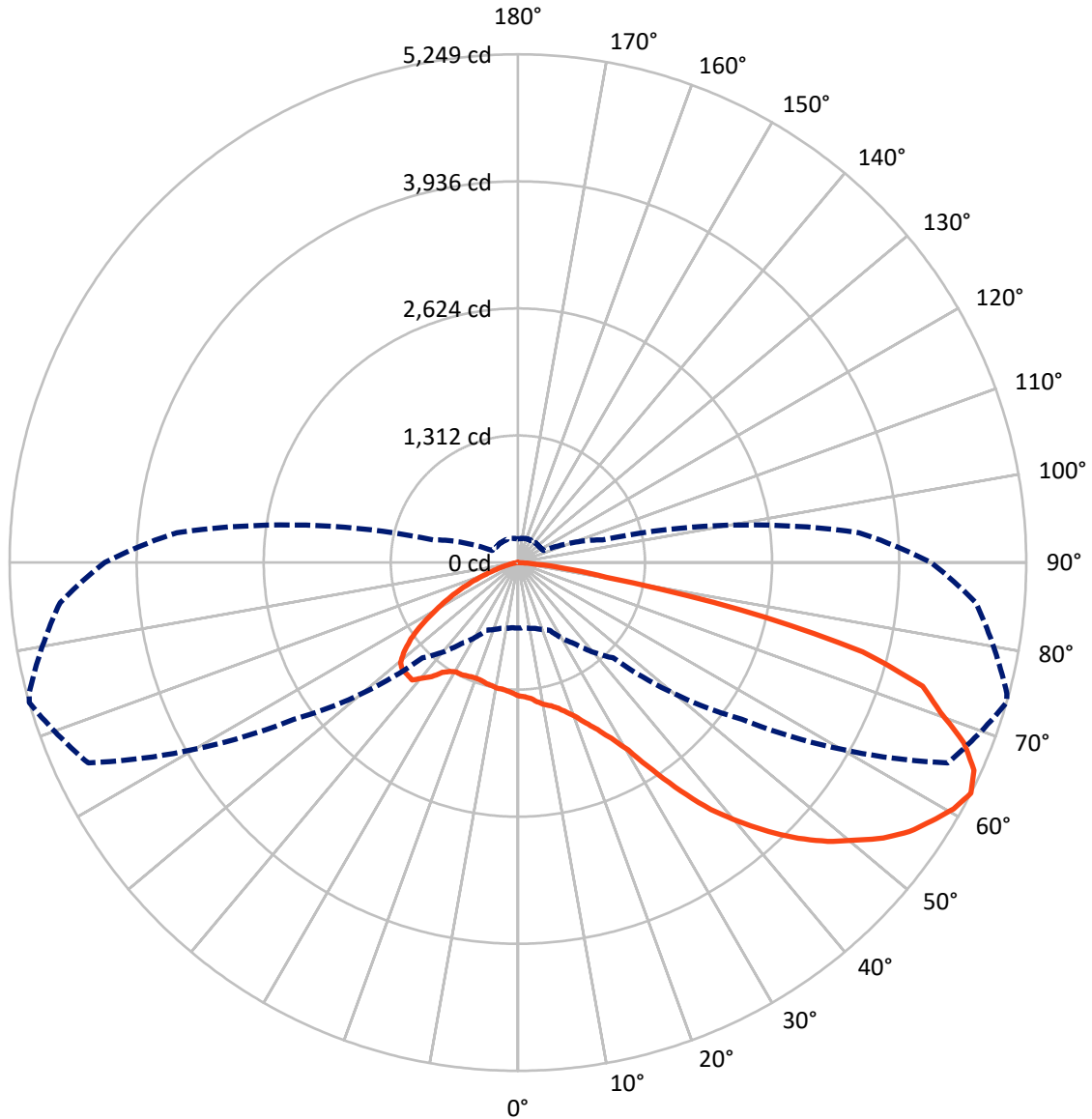
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1929.8	0.0	1929.8
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	5544.2	0.0	5544.2
	% Fixture	74.2	0.0	74.2
Total	Lumens	7474.0	0.0	7474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.8
10°-20°	403.8	5.4
20°-30°	680.8	9.1
30°-40°	994.7	13.3
40°-50°	1324.5	17.7
50°-60°	1524.2	20.4
60°-70°	1472.9	19.7
70°-80°	847.9	11.3
80°-90°	92.8	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°	7474.0	100.0
0°-180°	7474.0	100.0

Coefficient of Utilization



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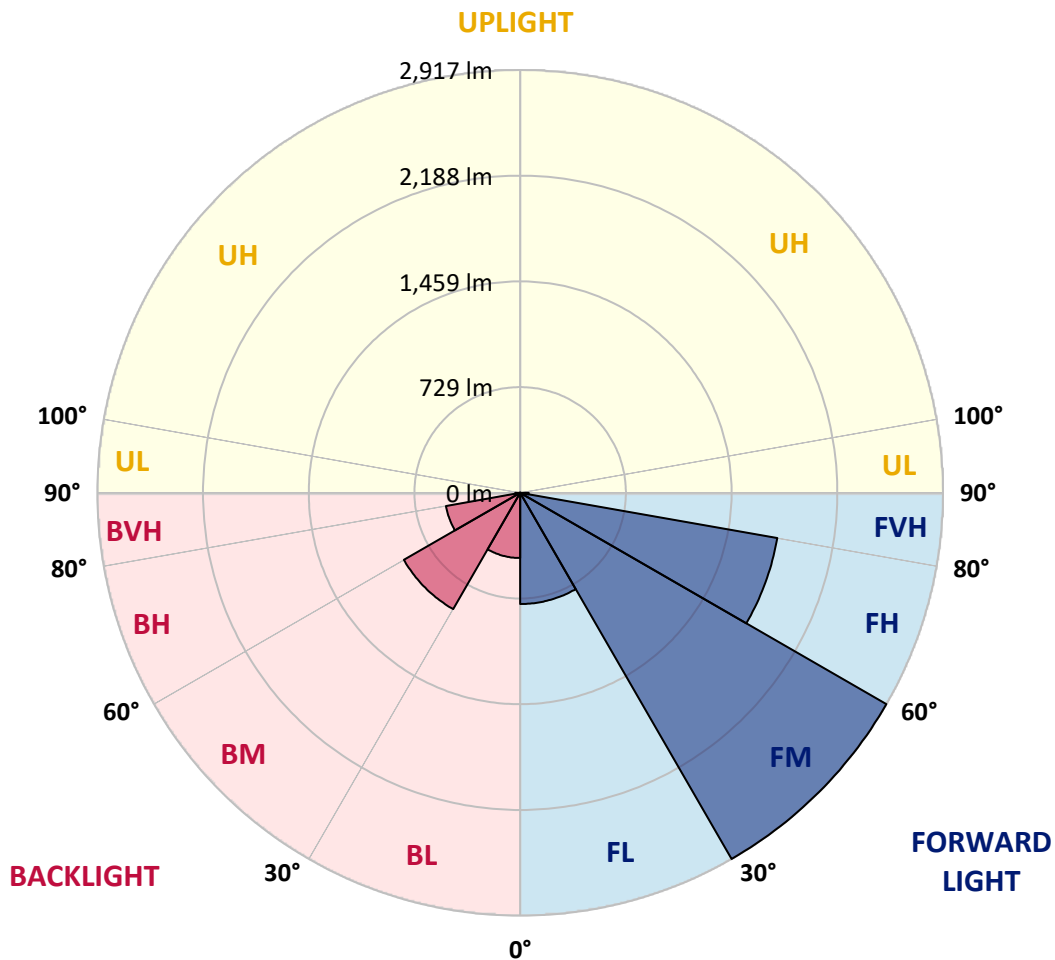
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.1	10.3			
FM (30°-60°)	2917.1	39.0			
FH (60°-80°)	1801.3	24.1			G2/5000
FVH (80°-90°)	58.7	0.8			G1/100
BL (0°-30°)	449.9	6.0	B1/500		
BM (30°-60°)	926.3	12.4	B1/1000		
BH (60°-80°)	519.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	34.1	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°	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2
2.5°	1475.2	1464.6	1458.0	1450.7	1441.7	1438.5	1418.9	1401.8	1387.9	1388.8	1379.8
5°	1528.9	1517.5	1502.9	1500.4	1489.0	1486.6	1467.8	1440.9	1410.8	1406.7	1379.8
7.5°	1589.3	1582.7	1573.8	1562.4	1543.6	1531.4	1504.5	1483.3	1452.3	1448.3	1395.3
10°	1662.6	1657.7	1651.2	1651.2	1626.7	1600.7	1568.1	1515.1	1490.6	1486.6	1422.2
12.5°	1749.0	1734.3	1713.1	1700.9	1678.1	1661.8	1626.7	1570.5	1517.5	1515.9	1447.4
15°	1805.2	1793.0	1779.1	1774.3	1744.9	1718.0	1680.5	1635.7	1561.5	1555.8	1478.4
17.5°	1868.0	1856.6	1840.3	1831.3	1812.6	1781.6	1748.2	1689.5	1623.5	1617.8	1513.5
20°	1903.0	1890.8	1885.9	1887.5	1881.0	1865.5	1825.6	1772.6	1696.8	1689.5	1561.5
22.5°	1942.1	1934.0	1935.6	1947.9	1960.1	1954.4	1923.4	1864.7	1799.5	1788.1	1639.0
25°	1943.0	1936.4	1958.4	2005.7	2031.8	2044.8	2028.5	1980.5	1911.2	1900.6	1737.6
27.5°	1956.8	1947.0	1970.7	2020.4	2099.4	2126.3	2132.0	2114.1	2054.6	2041.6	1855.8
30°	1921.0	1914.4	1950.3	2036.7	2129.6	2219.2	2251.8	2279.6	2246.1	2247.0	2038.3
32.5°	1859.0	1847.6	1902.2	2008.2	2180.9	2303.2	2389.6	2501.2	2552.6	2547.7	2356.2
35°	1740.8	1747.4	1820.7	1982.9	2182.6	2388.8	2558.3	2758.0	2897.3	2894.1	2685.4
37.5°	1656.9	1653.6	1740.0	1912.0	2181.8	2464.6	2722.1	3054.6	3234.7	3229.8	2968.2
40°	1555.8	1556.7	1643.0	1824.0	2143.5	2511.8	2891.6	3335.8	3519.2	3511.8	3238.8
42.5°	1447.4	1450.7	1531.4	1716.4	2090.5	2547.7	3043.2	3620.2	3797.9	3804.4	3455.6
45°	1350.5	1352.1	1432.0	1601.5	1996.8	2551.8	3179.3	3889.2	4062.0	4046.5	3683.0
47.5°	1207.8	1209.5	1327.6	1492.3	1872.9	2518.4	3291.8	4145.1	4303.2	4270.6	3875.3
50°	946.2	949.5	1089.7	1379.0	1722.1	2441.7	3380.6	4385.5	4507.8	4493.9	4072.6
52.5°	873.7	871.2	929.9	1243.7	1586.8	2303.2	3436.9	4601.5	4725.4	4723.7	4235.6
55°	837.0	834.6	854.1	1008.2	1454.0	2097.8	3435.2	4769.4	4905.5	4872.1	4384.7
57.5°	771.8	766.9	817.4	893.2	1305.6	1841.9	3353.7	4920.2	5035.9	5026.1	4519.2
60°	725.4	721.3	755.5	825.6	1147.5	1581.9	3144.3	4998.4	5167.1	5171.2	4632.5
62.5°	677.3	674.8	704.2	769.4	1023.6	1392.0	2821.5	4895.7	5248.6	5226.6	4745.7
65°	622.7	621.0	648.7	701.7	900.6	1247.8	2505.3	4712.3	5175.3	5200.5	4760.4
67.5°	557.5	556.6	583.5	620.2	766.1	1102.7	2021.2	4496.4	4965.8	4938.1	4572.2
70°	477.6	474.3	507.7	542.0	641.4	938.1	1573.0	4112.5	4625.1	4725.4	4197.3
72.5°	401.8	400.2	432.0	457.2	531.4	766.1	1147.5	3556.7	4370.0	4225.8	3781.6
75°	314.6	306.4	339.9	363.5	418.9	609.6	782.4	2375.7	3678.1	3647.9	3176.9
77.5°	127.1	147.5	176.0	197.2	233.9	345.6	409.1	1127.1	2346.4	2449.9	2209.5
80°	48.9	52.2	125.5	141.8	157.3	198.9	157.3	475.1	925.8	1009.8	1279.6
82.5°	27.7	31.0	61.9	59.5	58.7	50.5	58.7	233.1	483.3	529.8	617.8
85°	15.5	17.1	25.3	27.7	23.6	20.4	17.9	61.1	120.6	114.1	128.0
87.5°	2.4	3.3	4.1	4.1	2.4	2.4	2.4	3.3	3.3	3.3	4.1
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°	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2	1378.2
2.5°	1370.8	1361.9	1352.9	1342.3	1329.3	1321.1	1317.9	1321.9	1333.3	1319.5	1308.1
5°	1365.9	1353.7	1333.3	1313.0	1296.7	1282.8	1264.1	1262.4	1265.7	1260.0	1245.3
7.5°	1376.5	1358.6	1317.0	1303.2	1269.0	1236.4	1225.8	1221.7	1211.9	1200.5	1186.6
10°	1397.7	1361.1	1318.7	1277.9	1246.1	1211.1	1170.3	1171.2	1167.1	1154.0	1141.0
12.5°	1408.3	1365.1	1303.2	1260.0	1211.1	1167.9	1128.0	1110.0	1117.4	1106.8	1092.9
15°	1427.9	1382.2	1297.5	1233.9	1167.1	1118.2	1088.0	1061.9	1045.6	1048.1	1039.9
17.5°	1464.6	1397.7	1282.8	1205.4	1132.9	1075.0	1017.1	1014.7	990.2	976.4	964.1
20°	1502.9	1425.4	1281.2	1174.4	1077.4	1005.7	959.3	933.2	918.5	907.1	898.1
22.5°	1552.6	1463.7	1286.9	1156.5	1027.7	947.0	887.5	852.5	828.9	820.7	814.2
25°	1622.7	1511.8	1302.4	1124.7	975.6	882.6	802.0	765.3	738.4	731.9	727.0
27.5°	1718.8	1573.0	1317.9	1090.5	914.4	792.2	706.6	670.7	640.6	639.8	630.8
30°	1870.4	1666.7	1323.6	1060.3	849.2	695.2	609.6	576.2	553.4	544.4	550.9
32.5°	2153.2	1873.7	1359.4	1013.9	766.9	600.7	528.1	501.2	476.0	466.2	472.7
35°	2458.9	2121.4	1419.7	982.1	676.5	511.0	461.3	429.5	398.5	393.6	391.2
37.5°	2683.0	2347.2	1533.8	929.9	590.9	456.4	391.2	365.1	347.2	337.4	346.4
40°	2937.3	2534.7	1620.2	874.5	503.7	398.5	326.0	317.9	309.7	303.2	313.0
42.5°	3138.6	2727.8	1722.9	801.1	433.6	338.2	290.1	296.7	300.7	297.5	298.3
45°	3323.6	2871.2	1729.4	689.5	370.0	293.4	279.5	292.6	302.4	300.7	299.9
47.5°	3504.5	3042.4	1744.9	571.3	324.4	282.0	280.4	290.1	303.2	305.6	305.6
50°	3691.1	3172.8	1721.3	459.7	307.3	283.6	282.8	282.0	298.3	299.1	301.6
52.5°	3831.3	3278.7	1609.6	379.8	306.4	288.5	286.9	278.7	286.1	291.8	287.7
55°	3979.6	3410.8	1468.6	349.6	304.8	290.1	296.7	282.8	277.9	273.0	277.9
57.5°	4120.6	3502.9	1283.6	331.7	298.3	287.7	300.7	282.0	271.4	257.5	252.7
60°	4229.0	3524.1	1077.4	313.0	290.1	282.0	282.8	276.3	262.4	245.3	238.0
62.5°	4265.7	3536.3	906.3	295.0	273.8	273.0	266.5	264.1	258.4	247.8	244.5
65°	4234.7	3397.7	723.7	273.0	260.0	260.8	251.0	242.9	229.8	212.7	211.1
67.5°	4022.0	3154.1	555.0	245.3	238.8	246.9	236.4	222.5	207.8	196.4	198.0
70°	3657.7	2865.5	389.6	207.0	214.3	229.0	224.9	207.0	190.7	180.9	182.6
72.5°	3252.7	2427.9	264.9	161.4	174.4	205.4	205.4	193.2	176.9	163.8	160.6
75°	2565.6	1907.1	171.2	106.8	114.9	167.9	181.7	163.0	145.1	136.9	133.7
77.5°	1741.7	1242.1	109.2	61.1	76.6	110.0	143.4	145.9	172.0	172.8	165.4
80°	1023.6	710.7	66.8	35.9	38.3	63.6	114.9	144.3	182.6	128.8	118.2
82.5°	509.4	303.2	30.2	22.0	22.8	31.8	61.9	165.4	141.0	80.7	77.4
85°	113.3	49.7	12.2	11.4	13.0	16.3	31.8	136.9	86.4	65.2	63.6
87.5°	4.1	3.3	3.3	3.3	2.4	2.4	6.5	44.8	34.2	28.5	26.9
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)