

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: P233457

Luminaire Tested: **VERD-C01-D-U-T2-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233457  
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-C01-D-U-T2-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 1230mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6302 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

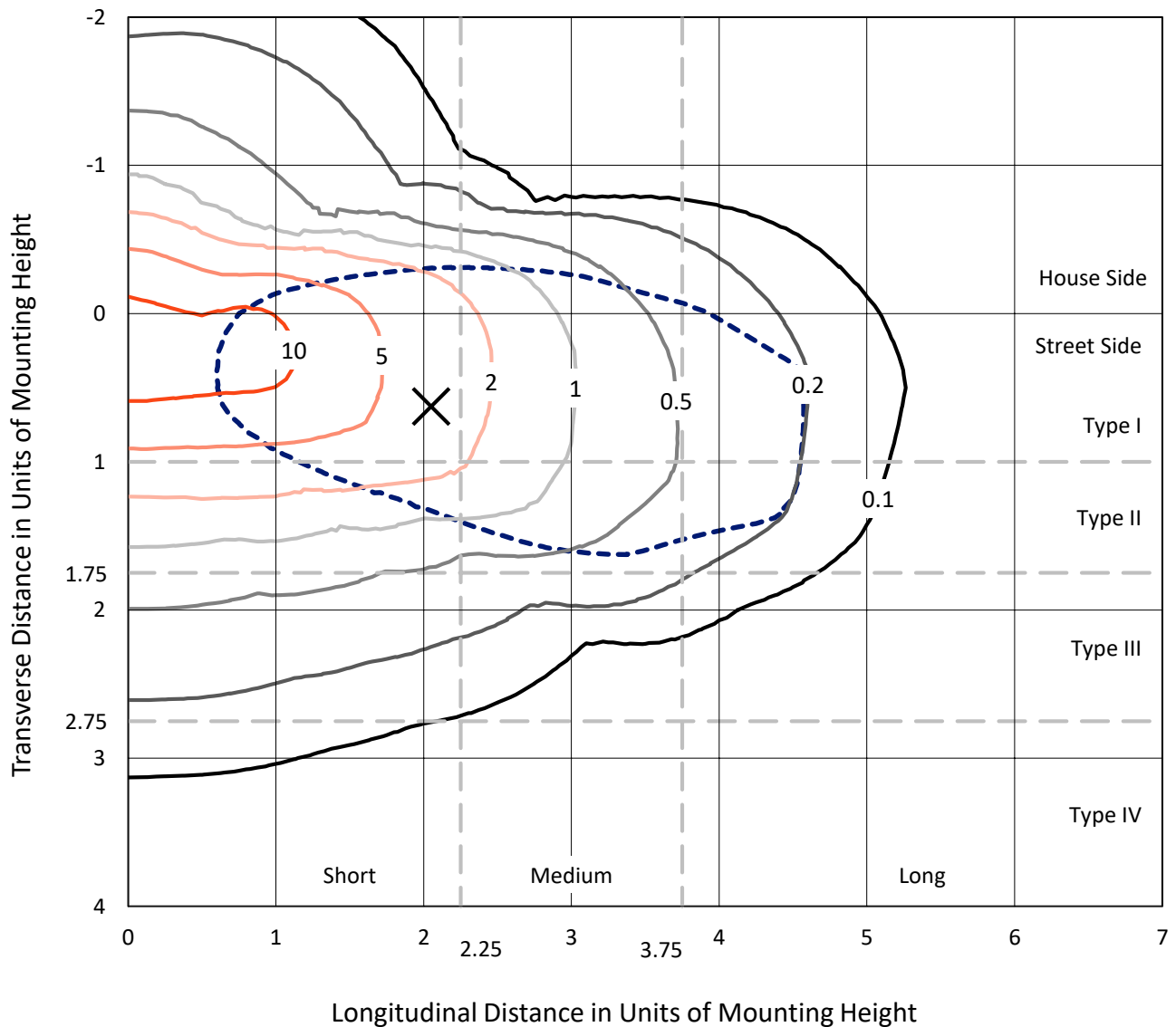
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P233457  
 CATALOG NUMBER: VERD-C01-D-U-T2-8027

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

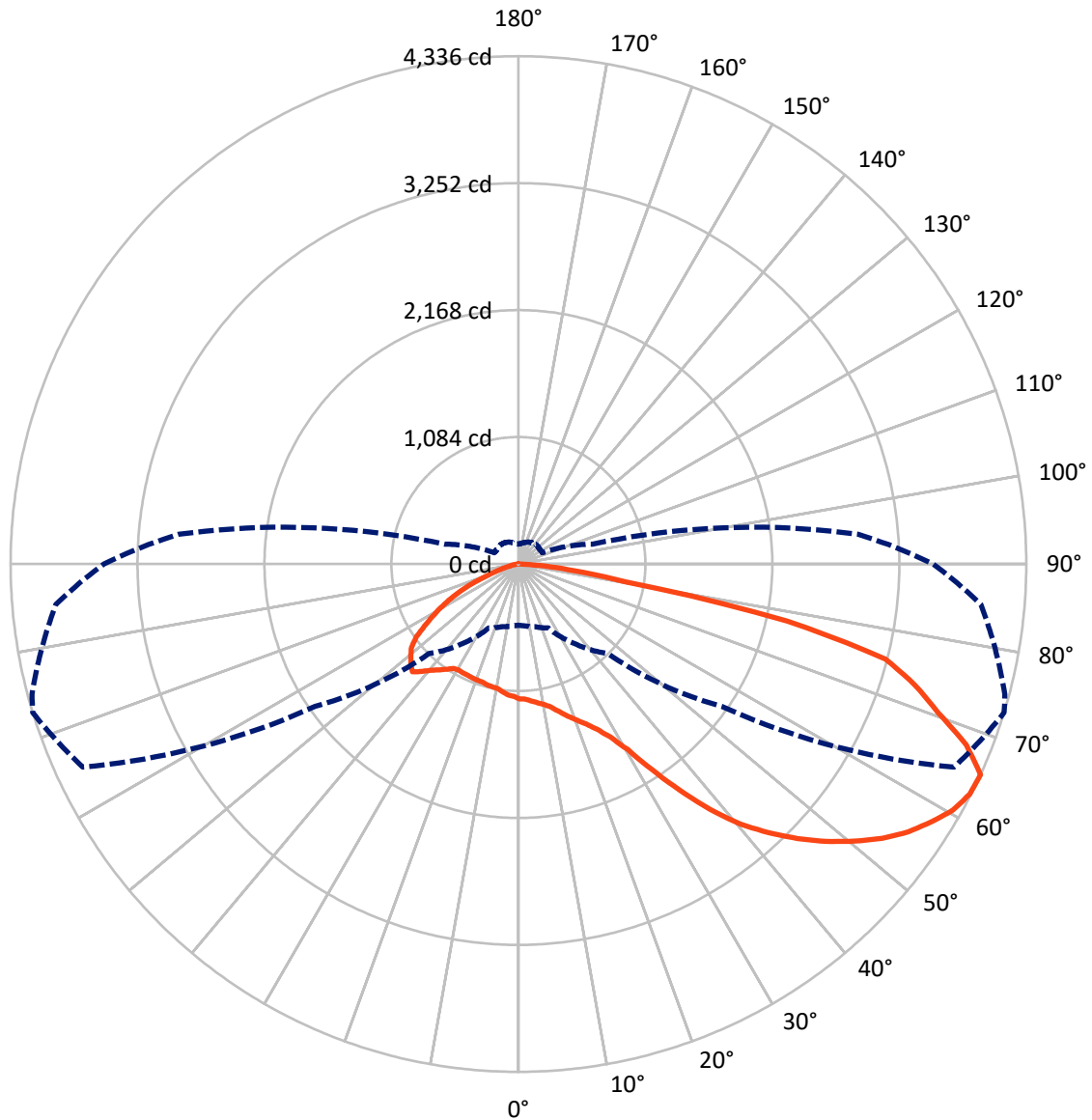


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233457

CATALOG NUMBER: VERD-C01-D-U-T2-8027

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P233457

CATALOG NUMBER: VERD-C01-D-U-T2-8027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1615.5	0.0	1615.5
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	4686.5	0.0	4686.5
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	6302.0	0.0	6302.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.9	1.7
10°-20°	332.5	5.3
20°-30°	557.7	8.8
30°-40°	817.9	13.0
40°-50°	1105.4	17.5
50°-60°	1280.5	20.3
60°-70°	1250.8	19.8
70°-80°	751.1	11.9
80°-90°	96.2	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°	6302.0	100.0
0°-180°	6302.0	100.0



REPORT NUMBER: P233457

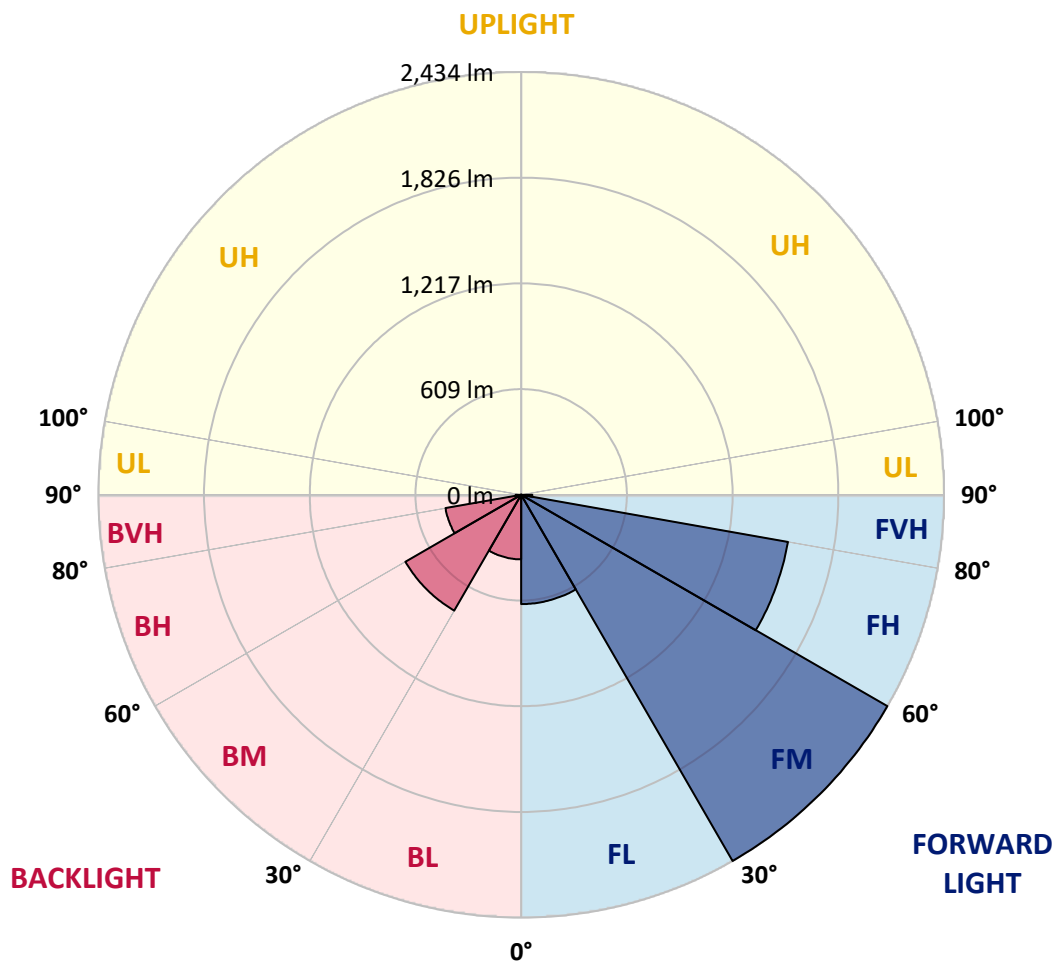
CATALOG NUMBER: VERD-C01-D-U-T2-8027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.8	10.0			
FM (30°-60°)	2434.0	38.6			
FH (60°-80°)	1559.6	24.7			G1/1800
FVH (80°-90°)	64.1	1.0			G1/100
BL (0°-30°)	371.3	5.9	B1/500		
BM (30°-60°)	769.7	12.2	B1/1000		
BH (60°-80°)	442.3	7.0	B1/500		G1/500
BVH (80°-90°)	32.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P233457

CATALOG NUMBER: VERD-C01-D-U-T2-8027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1223.3	1227.8	1222.7	1207.8	1200.4	1195.2	1179.8	1166.0	1155.2	1154.0	1143.7
5°	1270.2	1277.0	1268.5	1249.6	1242.1	1231.3	1214.1	1195.2	1175.8	1171.8	1151.2
7.5°	1329.7	1330.8	1326.3	1307.4	1291.9	1269.0	1239.3	1219.3	1196.9	1190.7	1158.0
10°	1380.0	1379.5	1373.7	1355.4	1340.0	1320.0	1278.2	1245.6	1219.3	1211.2	1166.0
12.5°	1428.1	1426.9	1421.2	1402.3	1382.9	1366.3	1334.8	1290.8	1255.3	1245.0	1188.9
15°	1487.6	1484.7	1475.6	1450.4	1435.0	1415.5	1392.6	1348.6	1307.9	1293.6	1222.1
17.5°	1533.4	1532.8	1525.9	1504.8	1486.5	1465.3	1444.1	1409.8	1365.7	1349.7	1254.7
20°	1559.7	1557.4	1555.7	1539.1	1534.5	1523.1	1492.7	1466.4	1422.4	1405.8	1291.3
22.5°	1587.7	1588.3	1588.9	1580.3	1593.4	1583.7	1561.4	1529.4	1484.7	1465.9	1342.8
25°	1594.0	1595.2	1606.6	1625.5	1641.5	1659.2	1643.2	1611.8	1563.7	1543.7	1413.2
27.5°	1576.3	1580.9	1615.2	1647.2	1703.9	1726.8	1723.9	1722.2	1673.0	1653.0	1509.9
30°	1592.3	1592.3	1615.8	1670.7	1742.2	1802.3	1815.4	1852.1	1837.2	1822.9	1672.4
32.5°	1544.2	1552.8	1594.6	1671.3	1784.5	1872.1	1931.6	2033.4	2092.4	2080.3	1902.4
35°	1453.8	1465.3	1526.5	1643.8	1805.7	1954.5	2060.9	2257.1	2371.0	2385.3	2179.3
37.5°	1384.0	1393.8	1470.4	1600.9	1813.7	2031.7	2210.2	2508.9	2655.9	2648.5	2413.9
40°	1298.8	1316.0	1393.2	1550.0	1794.8	2097.5	2372.1	2740.0	2920.8	2886.5	2637.1
42.5°	1222.1	1237.0	1301.6	1468.7	1768.5	2134.7	2518.6	2978.1	3136.5	3109.1	2848.2
45°	1140.9	1154.0	1214.1	1371.5	1707.3	2153.0	2655.9	3205.8	3343.7	3312.8	3043.9
47.5°	1047.6	1065.3	1136.9	1279.9	1617.5	2141.6	2756.1	3403.7	3540.5	3517.6	3205.8
50°	812.5	830.8	1017.9	1194.1	1492.7	2094.1	2845.9	3601.7	3718.4	3696.7	3348.8
52.5°	737.5	745.5	803.9	1095.7	1362.9	2000.2	2902.0	3764.8	3891.8	3870.0	3483.8
55°	691.7	697.5	730.1	894.8	1252.4	1849.2	2908.8	3934.1	4037.7	4009.1	3627.5
57.5°	644.8	651.1	687.2	771.8	1141.4	1612.9	2836.2	4077.7	4156.1	4125.2	3764.8
60°	605.3	608.8	644.2	702.6	1016.1	1378.3	2649.1	4175.6	4265.4	4225.4	3899.2
62.5°	569.3	573.9	599.6	652.8	910.9	1202.7	2388.2	4176.1	4325.5	4300.9	3967.3
65°	522.4	529.2	554.4	602.5	825.6	1082.5	2118.1	4103.5	4336.3	4299.7	3963.9
67.5°	468.0	476.6	499.5	537.8	712.3	954.4	1741.6	4007.9	4124.1	4117.8	3800.2
70°	413.7	413.7	439.4	470.3	591.0	817.0	1376.0	3667.5	3800.2	3810.0	3506.7
72.5°	349.0	350.2	370.2	397.1	476.0	670.6	1002.4	3135.4	3542.8	3424.9	3162.9
75°	292.9	291.8	312.4	334.7	387.3	528.1	654.0	2303.5	3237.8	3264.1	2783.5
77.5°	155.6	149.9	176.2	194.0	227.1	293.5	362.7	1155.2	2344.7	2396.2	2228.5
80°	44.1	44.6	116.7	130.5	149.3	145.3	168.2	440.6	927.5	1045.3	1299.4
82.5°	26.3	30.3	66.4	77.8	58.4	37.8	64.1	244.9	480.0	537.8	644.8
85°	13.7	14.9	23.5	29.2	22.3	18.9	19.5	103.0	233.4	237.4	257.5
87.5°	6.3	6.3	8.6	9.2	5.7	3.4	2.3	1.7	1.7	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233457

CATALOG NUMBER: VERD-C01-D-U-T2-8027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1135.7	1141.4	1131.7	1124.3	1118.6	1115.1	1111.1	1101.4	1104.3	1108.3	1107.7
5°	1141.4	1144.3	1127.1	1103.7	1081.9	1066.5	1056.2	1040.7	1040.7	1047.0	1047.0
7.5°	1146.6	1142.6	1107.7	1068.2	1043.6	1031.0	1014.4	997.8	995.0	999.6	1000.1
10°	1149.5	1132.3	1083.7	1047.0	1015.0	989.3	968.1	949.2	948.6	954.9	956.1
12.5°	1162.0	1128.9	1081.9	1031.6	983.5	956.1	930.9	909.7	902.3	902.9	904.0
15°	1181.5	1142.6	1079.7	1010.4	958.4	921.7	885.1	858.2	851.4	860.5	864.0
17.5°	1205.0	1164.9	1068.8	991.0	927.5	883.4	846.8	822.8	801.0	791.3	789.6
20°	1235.9	1183.8	1074.5	962.4	897.7	838.8	793.0	763.8	745.5	744.4	743.2
22.5°	1276.5	1205.0	1075.6	943.5	850.8	789.6	732.9	716.3	683.7	671.7	676.9
25°	1330.3	1237.0	1072.8	923.5	814.7	732.4	664.3	633.9	621.9	608.2	609.3
27.5°	1399.5	1287.9	1080.2	897.1	755.8	662.6	586.5	553.8	535.5	524.1	525.8
30°	1540.2	1365.2	1079.7	872.0	701.5	590.5	504.6	482.9	464.6	454.3	459.4
32.5°	1740.5	1532.8	1103.7	838.2	639.7	493.8	436.0	411.4	395.9	384.5	387.3
35°	1988.2	1715.3	1165.5	792.4	569.3	420.0	380.5	350.2	331.3	326.7	325.0
37.5°	2218.2	1876.7	1223.8	762.1	488.6	379.3	329.6	299.2	282.6	288.4	288.4
40°	2423.6	2090.6	1289.6	713.5	415.4	333.0	272.9	259.2	250.6	260.3	263.8
42.5°	2578.7	2296.1	1378.9	649.4	355.9	278.1	233.4	243.2	246.6	253.5	251.7
45°	2770.9	2413.3	1467.0	589.9	303.8	231.7	225.4	245.5	253.5	259.8	256.9
47.5°	2947.7	2504.3	1449.3	480.0	255.8	224.3	229.4	245.5	259.2	269.5	267.8
50°	3099.9	2618.2	1415.5	373.0	245.5	231.1	233.4	239.2	259.8	266.6	266.6
52.5°	3194.9	2730.9	1373.7	301.5	252.9	239.7	235.7	235.2	248.9	254.0	249.5
55°	3309.3	2847.6	1265.6	279.8	255.8	245.5	242.0	236.9	240.9	236.9	239.2
57.5°	3436.4	2962.6	1099.7	273.5	254.0	243.7	262.0	234.6	232.3	218.0	214.6
60°	3547.9	3007.8	954.4	259.2	244.9	239.2	243.7	231.7	220.3	201.4	194.0
62.5°	3589.7	3003.8	806.7	244.3	231.1	232.3	231.7	223.1	212.8	194.0	189.4
65°	3539.3	2912.3	654.0	226.6	220.3	224.9	219.1	206.5	189.4	173.9	169.9
67.5°	3368.8	2678.8	485.8	203.1	202.5	211.1	207.1	190.0	171.1	159.1	159.1
70°	3042.7	2391.6	314.7	168.8	181.4	196.2	196.2	177.9	153.3	143.0	145.9
72.5°	2685.7	2058.0	203.7	125.3	143.0	177.9	176.8	164.2	141.3	128.2	128.7
75°	2326.4	1632.9	131.6	86.4	92.7	151.6	156.8	133.9	109.9	93.8	91.0
77.5°	1768.5	1228.4	83.5	50.3	58.9	92.7	119.0	111.6	112.1	136.7	135.6
80°	1087.7	740.4	60.6	24.6	29.2	60.6	96.1	106.4	149.3	98.4	90.4
82.5°	544.7	346.2	32.0	14.9	16.6	26.9	57.2	127.6	108.7	65.2	61.8
85°	203.7	93.3	9.7	7.4	9.2	13.7	23.5	116.7	69.2	52.1	50.9
87.5°	1.1	1.7	1.7	2.3	3.4	4.0	8.6	55.5	34.9	25.2	24.0
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)