

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: P233456

Luminaire Tested: **VERD-C018-D-U-T2-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233456  
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-C018-D-U-T2-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 1210mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5266 lumens  
Efficiency: N/A  
Efficacy: 105.3 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): 50  
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

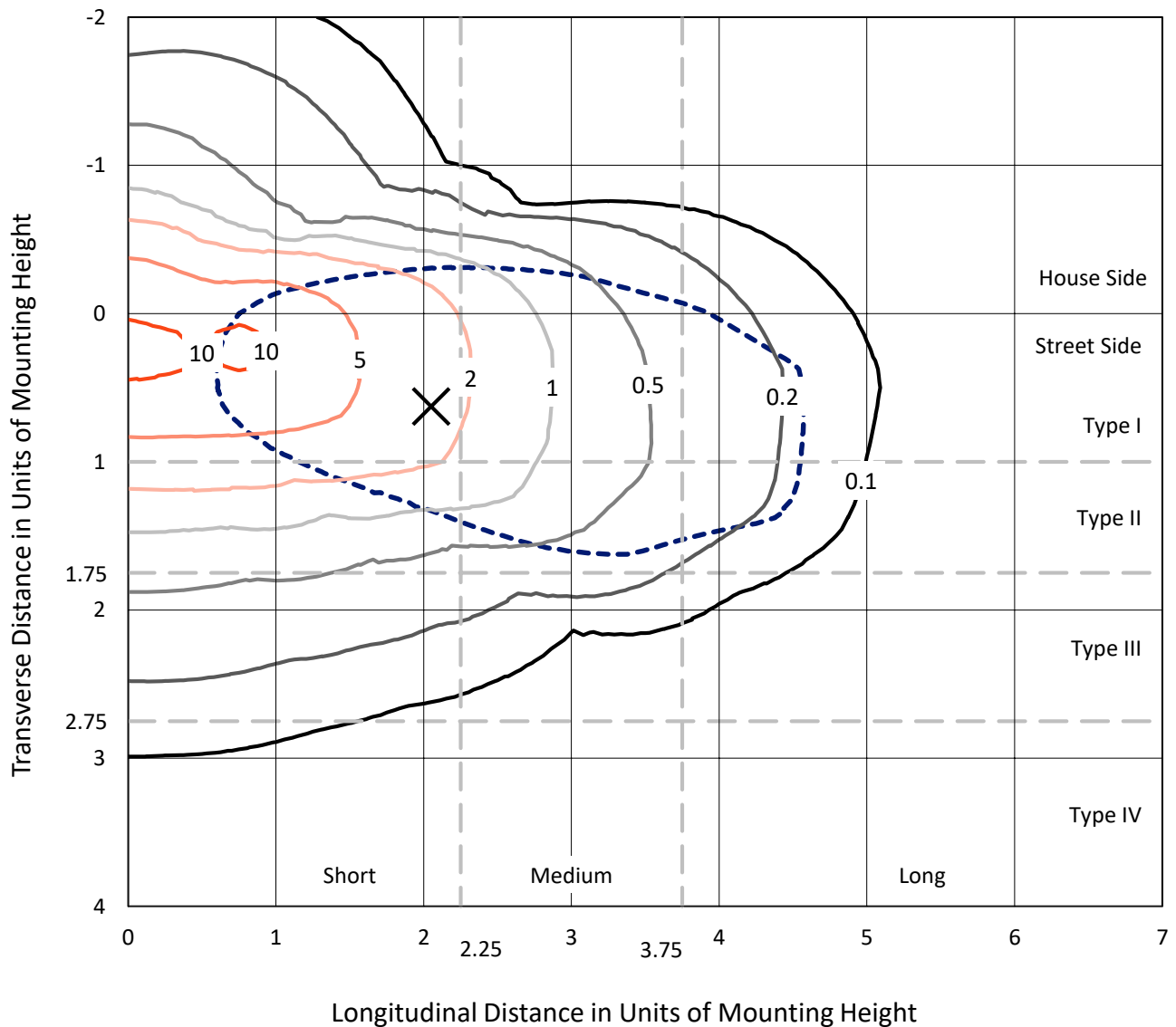


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

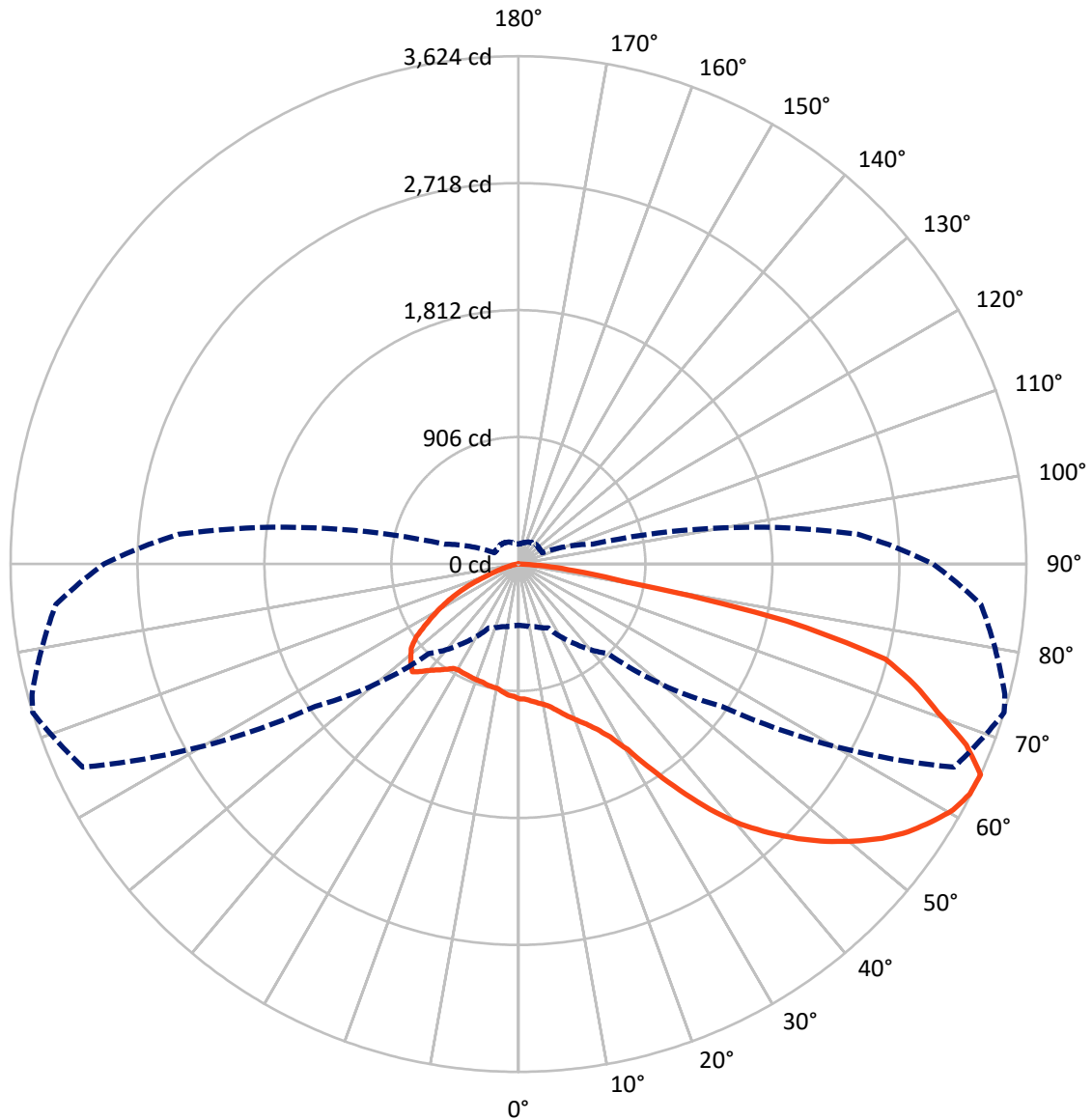


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1349.9	0.0	1349.9
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	3916.1	0.0	3916.1
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	5266.0	0.0	5266.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	1.7
10°-20°	277.8	5.3
20°-30°	466.0	8.8
30°-40°	683.4	13.0
40°-50°	923.7	17.5
50°-60°	1070.0	20.3
60°-70°	1045.2	19.8
70°-80°	627.6	11.9
80°-90°	80.4	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°	5266.0	100.0
0°-180°	5266.0	100.0



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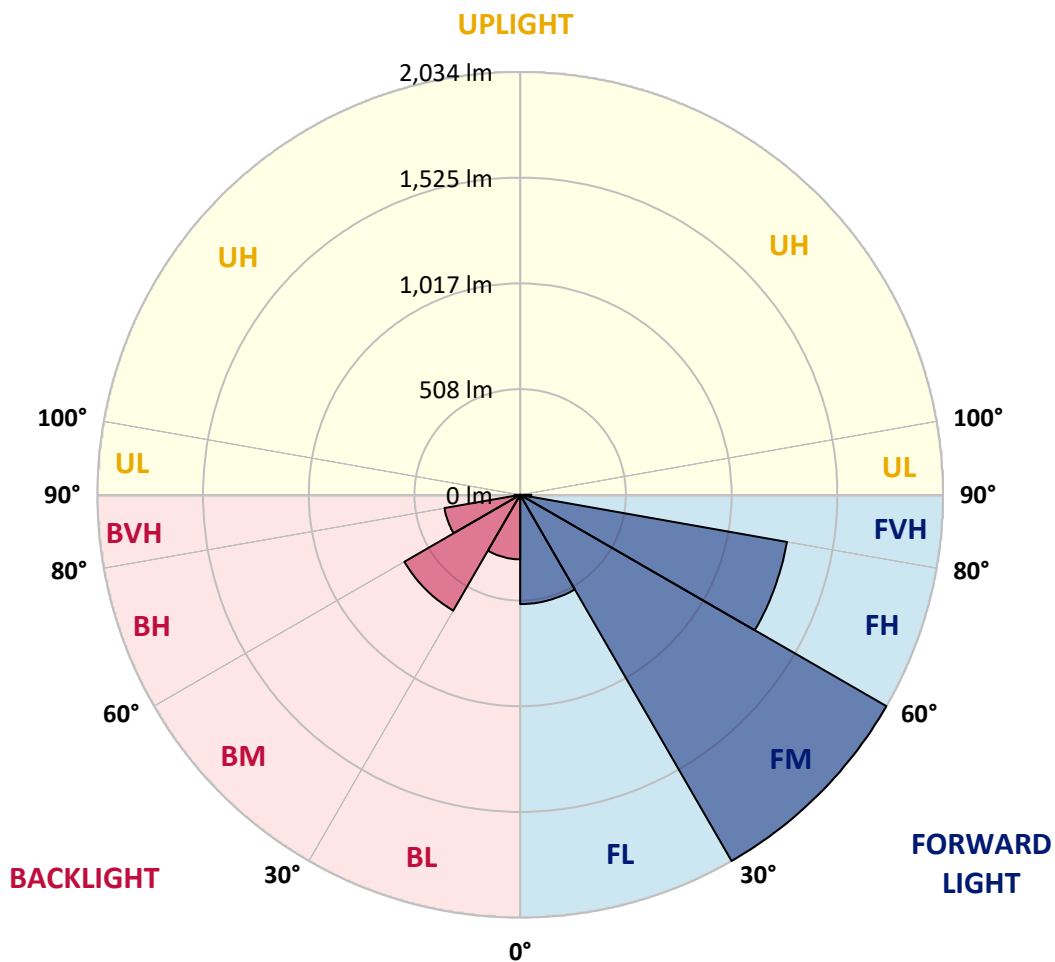
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.5	10.0			
FM (30°-60°)	2033.9	38.6			
FH (60°-80°)	1303.2	24.7			G1/1800
FVH (80°-90°)	53.5	1.0			G1/100
BL (0°-30°)	310.3	5.9	B1/500		
BM (30°-60°)	643.2	12.2	B1/1000		
BH (60°-80°)	369.6	7.0	B1/500		G1/500
BVH (80°-90°)	26.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9
2.5°	1022.2	1026.0	1021.7	1009.3	1003.0	998.7	985.8	974.4	965.3	964.3	955.7
5°	1061.4	1067.1	1059.9	1044.2	1037.9	1028.9	1014.5	998.7	982.5	979.1	961.9
7.5°	1111.1	1112.1	1108.2	1092.4	1079.5	1060.4	1035.6	1018.8	1000.2	994.9	967.7
10°	1153.2	1152.7	1147.9	1132.6	1119.7	1103.0	1068.1	1040.8	1018.8	1012.1	974.4
12.5°	1193.3	1192.4	1187.6	1171.8	1155.6	1141.7	1115.4	1078.6	1048.9	1040.3	993.5
15°	1243.0	1240.7	1233.0	1212.0	1199.1	1182.8	1163.7	1126.9	1092.9	1081.0	1021.2
17.5°	1281.3	1280.8	1275.1	1257.4	1242.1	1224.4	1206.7	1178.0	1141.2	1127.8	1048.5
20°	1303.3	1301.4	1299.9	1286.1	1282.3	1272.7	1247.4	1225.4	1188.5	1174.7	1079.1
22.5°	1326.7	1327.2	1327.7	1320.5	1331.5	1323.4	1304.7	1277.9	1240.7	1224.9	1122.1
25°	1332.0	1332.9	1342.5	1358.3	1371.7	1386.5	1373.1	1346.8	1306.6	1289.9	1180.9
27.5°	1317.2	1321.0	1349.7	1376.4	1423.8	1442.9	1440.5	1439.1	1398.0	1381.2	1261.7
30°	1330.5	1330.5	1350.1	1396.0	1455.8	1506.0	1517.0	1547.6	1535.2	1523.2	1397.5
32.5°	1290.4	1297.6	1332.5	1396.5	1491.2	1564.3	1614.1	1699.2	1748.4	1738.4	1589.7
35°	1214.8	1224.4	1275.6	1373.6	1508.9	1633.2	1722.1	1886.1	1981.2	1993.2	1821.1
37.5°	1156.5	1164.6	1228.7	1337.7	1515.6	1697.7	1846.9	2096.4	2219.3	2213.1	2017.1
40°	1085.3	1099.6	1164.2	1295.2	1499.8	1752.7	1982.2	2289.6	2440.7	2412.0	2203.5
42.5°	1021.2	1033.6	1087.7	1227.3	1477.8	1783.8	2104.6	2488.5	2620.9	2598.0	2380.0
45°	953.3	964.3	1014.5	1146.0	1426.6	1799.1	2219.3	2678.8	2794.0	2768.2	2543.5
47.5°	875.4	890.2	950.0	1069.5	1351.6	1789.5	2303.0	2844.2	2958.5	2939.3	2678.8
50°	678.9	694.2	850.5	997.8	1247.4	1749.8	2378.0	3009.6	3107.1	3089.0	2798.3
52.5°	616.3	623.0	671.7	915.6	1138.8	1671.4	2424.9	3145.9	3252.0	3233.8	2911.1
55°	578.0	582.8	610.0	747.7	1046.6	1545.2	2430.6	3287.4	3373.9	3350.0	3031.1
57.5°	538.8	544.1	574.2	645.0	953.8	1347.8	2369.9	3407.4	3472.9	3447.1	3145.9
60°	505.8	508.7	538.3	587.1	849.1	1151.7	2213.6	3489.1	3564.2	3530.7	3258.2
62.5°	475.7	479.5	501.0	545.5	761.1	1005.0	1995.6	3489.6	3614.4	3593.8	3315.1
65°	436.5	442.2	463.3	503.4	689.9	904.6	1769.9	3428.9	3623.5	3592.9	3312.2
67.5°	391.1	398.3	417.4	449.4	595.2	797.5	1455.3	3349.1	3446.1	3440.9	3175.5
70°	345.7	345.7	367.2	393.0	493.9	682.7	1149.8	3064.6	3175.5	3183.6	2930.2
72.5°	291.6	292.6	309.3	331.8	397.8	560.3	837.6	2620.0	2960.4	2861.9	2642.9
75°	244.8	243.8	261.0	279.7	323.7	441.3	546.5	1924.8	2705.5	2727.5	2325.9
77.5°	130.0	125.3	147.3	162.1	189.8	245.3	303.1	965.3	1959.2	2002.3	1862.2
80°	36.8	37.3	97.5	109.0	124.8	121.4	140.6	368.1	775.0	873.5	1085.8
82.5°	22.0	25.3	55.5	65.0	48.8	31.6	53.5	204.6	401.1	449.4	538.8
85°	11.5	12.4	19.6	24.4	18.6	15.8	16.3	86.1	195.1	198.4	215.1
87.5°	5.3	5.3	7.2	7.6	4.8	2.9	1.9	1.4	1.4	1.0	1.0
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°	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9
2.5°	949.0	953.8	945.7	939.5	934.7	931.8	928.5	920.3	922.7	926.1	925.6
5°	953.8	956.2	941.8	922.2	904.1	891.2	882.6	869.7	869.7	874.9	874.9
7.5°	958.1	954.8	925.6	892.6	872.0	861.5	847.7	833.8	831.4	835.2	835.7
10°	960.5	946.2	905.5	874.9	848.1	826.6	808.9	793.2	792.7	797.9	798.9
12.5°	971.0	943.3	904.1	862.0	821.8	798.9	777.9	760.2	754.0	754.4	755.4
15°	987.3	954.8	902.2	844.3	800.8	770.2	739.6	717.1	711.4	719.1	721.9
17.5°	1006.9	973.4	893.1	828.1	775.0	738.2	707.6	687.5	669.3	661.2	659.8
20°	1032.7	989.2	897.9	804.2	750.1	700.9	662.6	638.3	623.0	622.0	621.0
22.5°	1066.6	1006.9	898.8	788.4	710.9	659.8	612.4	598.6	571.3	561.3	565.6
25°	1111.6	1033.6	896.4	771.6	680.8	612.0	555.1	529.7	519.7	508.2	509.2
27.5°	1169.4	1076.2	902.6	749.7	631.6	553.6	490.0	462.8	447.5	437.9	439.4
30°	1287.0	1140.7	902.2	728.6	586.1	493.4	421.7	403.5	388.2	379.6	383.9
32.5°	1454.4	1280.8	922.2	700.4	534.5	412.6	364.3	343.8	330.8	321.3	323.7
35°	1661.4	1433.3	973.9	662.2	475.7	350.9	317.9	292.6	276.8	273.0	271.6
37.5°	1853.6	1568.2	1022.6	636.8	408.3	317.0	275.4	250.0	236.2	241.0	241.0
40°	2025.2	1747.0	1077.6	596.2	347.1	278.3	228.1	216.6	209.4	217.5	220.4
42.5°	2154.8	1918.6	1152.2	542.6	297.4	232.4	195.1	203.2	206.1	211.8	210.4
45°	2315.4	2016.6	1225.8	492.9	253.9	193.6	188.4	205.1	211.8	217.1	214.7
47.5°	2463.1	2092.6	1211.0	401.1	213.7	187.4	191.7	205.1	216.6	225.2	223.7
50°	2590.3	2187.8	1182.8	311.7	205.1	193.2	195.1	199.8	217.1	222.8	222.8
52.5°	2669.7	2282.0	1147.9	252.0	211.3	200.3	197.0	196.5	208.0	212.3	208.4
55°	2765.3	2379.5	1057.5	233.8	213.7	205.1	202.2	197.9	201.3	197.9	199.8
57.5°	2871.4	2475.6	918.9	228.5	212.3	203.7	219.0	196.0	194.1	182.2	179.3
60°	2964.7	2513.3	797.5	216.6	204.6	199.8	203.7	193.6	184.1	168.3	162.1
62.5°	2999.6	2510.0	674.1	204.1	193.2	194.1	193.6	186.5	177.9	162.1	158.2
65°	2957.5	2433.5	546.5	189.3	184.1	187.9	183.1	172.6	158.2	145.3	142.0
67.5°	2815.0	2238.4	405.9	169.7	169.2	176.4	173.1	158.7	143.0	132.9	132.9
70°	2542.5	1998.4	263.0	141.0	151.6	164.0	164.0	148.7	128.1	119.5	121.9
72.5°	2244.2	1719.7	170.2	104.7	119.5	148.7	147.7	137.2	118.1	107.1	107.6
75°	1943.9	1364.5	110.0	72.2	77.5	126.7	131.0	111.9	91.8	78.4	76.0
77.5°	1477.8	1026.5	69.8	42.1	49.2	77.5	99.4	93.2	93.7	114.3	113.3
80°	908.9	618.7	50.7	20.6	24.4	50.7	80.3	88.9	124.8	82.2	75.5
82.5°	455.1	289.2	26.8	12.4	13.9	22.5	47.8	106.6	90.8	54.5	51.6
85°	170.2	77.9	8.1	6.2	7.6	11.5	19.6	97.5	57.8	43.5	42.6
87.5°	1.0	1.4	1.4	1.9	2.9	3.3	7.2	46.4	29.2	21.0	20.1
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)