

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: P233455

Luminaire Tested: **VERD-C016-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233455
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-C016-D-U-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 950mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4292 lumens
Efficiency: N/A
Efficacy: 110.1 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): 39
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

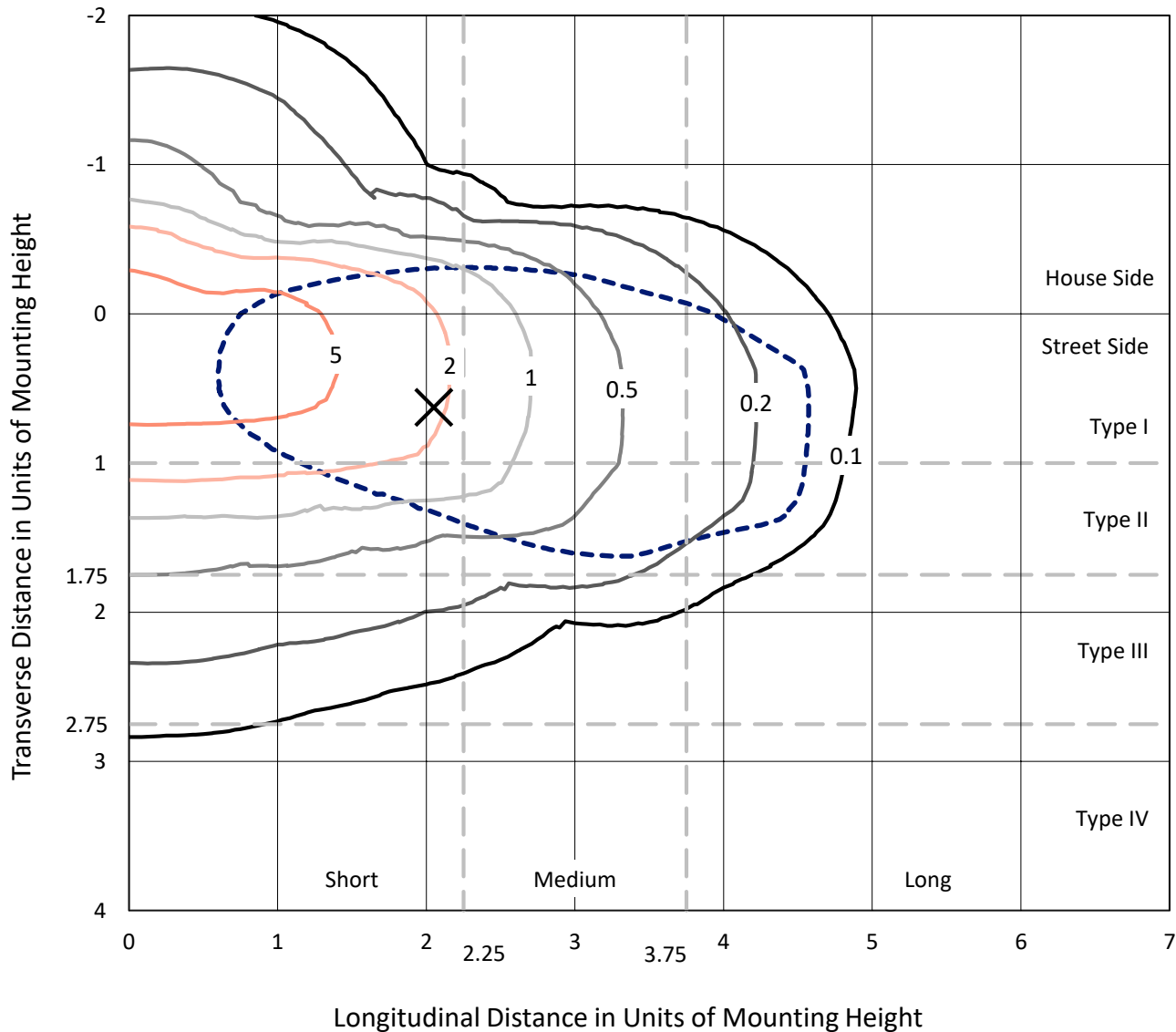


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

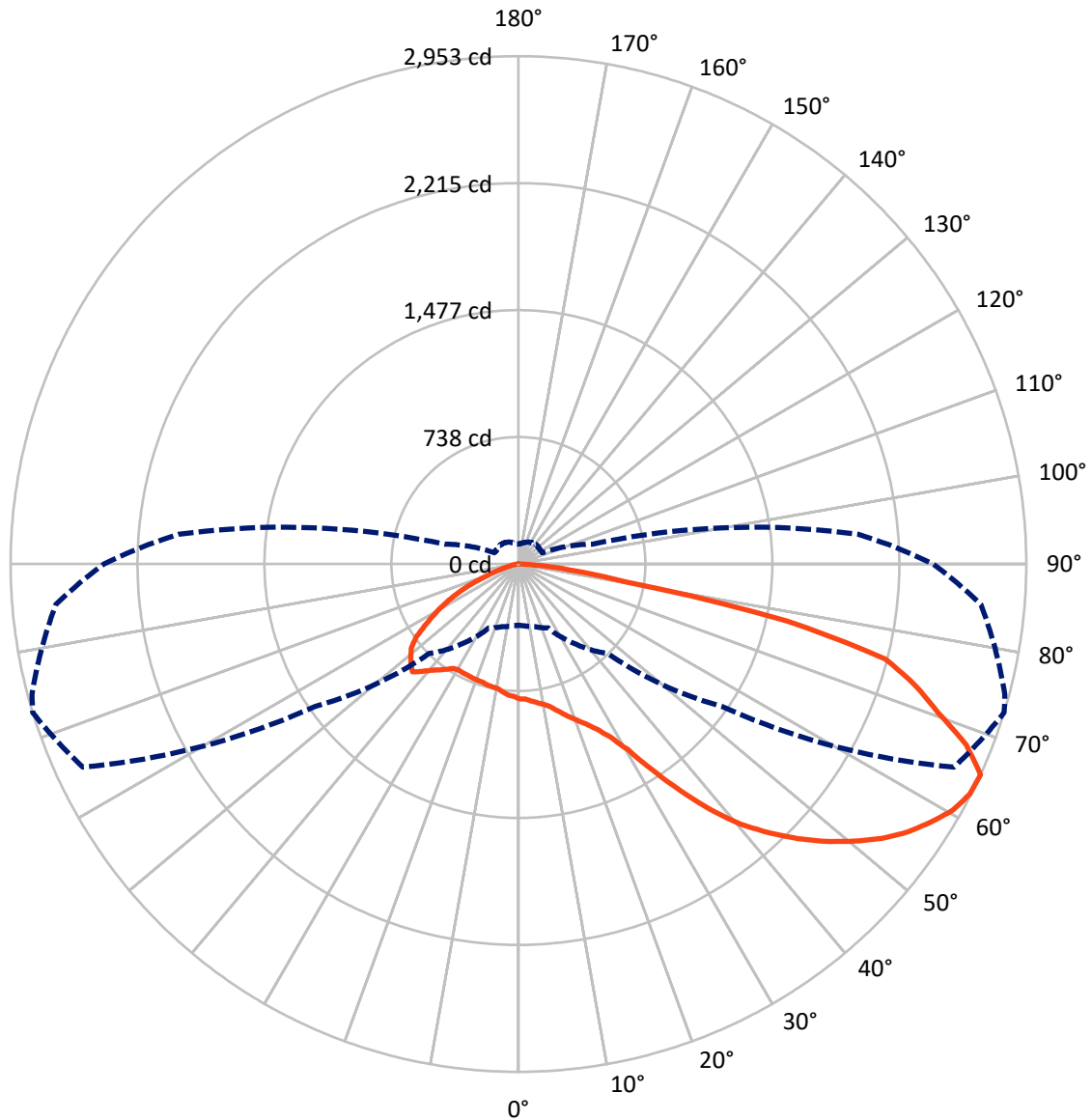


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Non-Cutoff

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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	1100.2	0.0	1100.2
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	3191.8	0.0	3191.8
	% Fixture	74.4	0.0	74.4
Total	Lumens	4292.0	0.0	4292.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.7
10°-20°	226.4	5.3
20°-30°	379.8	8.8
30°-40°	557.0	13.0
40°-50°	752.8	17.5
50°-60°	872.1	20.3
60°-70°	851.9	19.8
70°-80°	511.5	11.9
80°-90°	65.5	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°	4292.0	100.0
0°-180°	4292.0	100.0



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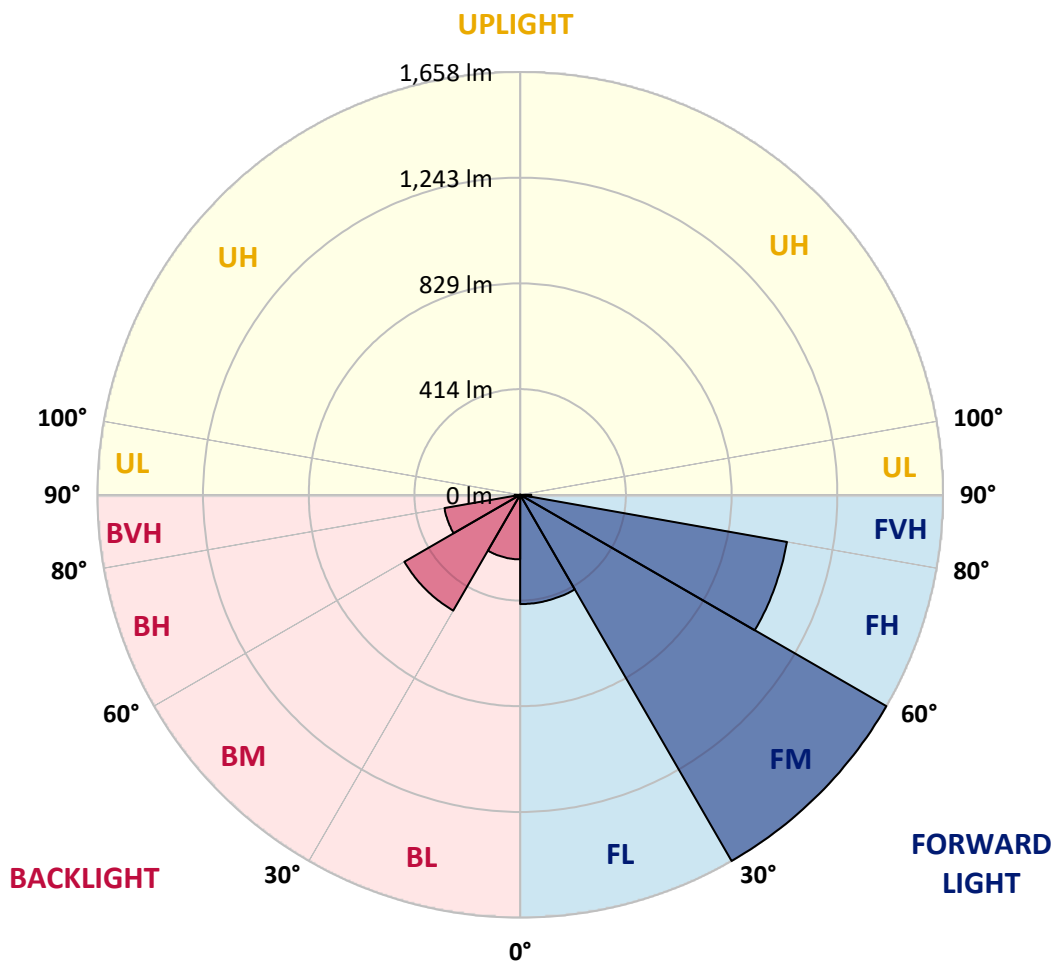
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.3	10.0			
FM (30°-60°)	1657.7	38.6			
FH (60°-80°)	1062.2	24.7			G1/1800
FVH (80°-90°)	43.6	1.0			G1/100
BL (0°-30°)	252.9	5.9	B1/500		
BM (30°-60°)	524.2	12.2	B1/1000		
BH (60°-80°)	301.2	7.0	B1/500		G1/500
BVH (80°-90°)	21.9	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°	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8
2.5°	833.1	836.2	832.7	822.6	817.5	814.0	803.5	794.1	786.7	786.0	778.9
5°	865.1	869.7	863.9	851.0	846.0	838.6	826.9	814.0	800.8	798.0	784.0
7.5°	905.6	906.4	903.2	890.4	879.9	864.3	844.0	830.4	815.2	810.9	788.7
10°	939.9	939.5	935.6	923.1	912.6	899.0	870.5	848.3	830.4	824.9	794.1
12.5°	972.6	971.8	967.9	955.1	941.8	930.5	909.1	879.1	854.9	847.9	809.7
15°	1013.1	1011.2	1005.0	987.8	977.3	964.0	948.4	918.4	890.8	881.0	832.3
17.5°	1044.3	1043.9	1039.2	1024.8	1012.4	997.9	983.5	960.1	930.1	919.2	854.5
20°	1062.2	1060.7	1059.5	1048.2	1045.1	1037.3	1016.6	998.7	968.7	957.4	879.5
22.5°	1081.3	1081.7	1082.1	1076.3	1085.2	1078.6	1063.4	1041.6	1011.2	998.3	914.5
25°	1085.6	1086.4	1094.2	1107.0	1118.0	1130.0	1119.1	1097.7	1065.0	1051.3	962.5
27.5°	1073.5	1076.6	1100.0	1121.9	1160.4	1176.0	1174.1	1172.9	1139.4	1125.7	1028.3
30°	1084.4	1084.4	1100.4	1137.8	1186.5	1227.5	1236.4	1261.4	1251.2	1241.5	1139.0
32.5°	1051.7	1057.6	1086.0	1138.2	1215.4	1275.0	1315.5	1384.9	1425.0	1416.8	1295.6
35°	990.1	997.9	1039.6	1119.5	1229.8	1331.1	1403.6	1537.2	1614.8	1624.5	1484.2
37.5°	942.6	949.2	1001.4	1090.3	1235.2	1383.7	1505.3	1708.7	1808.8	1803.8	1644.0
40°	884.5	896.2	948.8	1055.6	1222.4	1428.5	1615.6	1866.1	1989.2	1965.9	1796.0
42.5°	832.3	842.5	886.5	1000.3	1204.5	1453.8	1715.3	2028.2	2136.2	2117.5	1939.8
45°	777.0	786.0	826.9	934.0	1162.8	1466.3	1808.8	2183.3	2277.2	2256.2	2073.0
47.5°	713.5	725.6	774.3	871.7	1101.6	1458.5	1877.0	2318.1	2411.3	2395.7	2183.3
50°	553.3	565.8	693.2	813.2	1016.6	1426.2	1938.2	2453.0	2532.4	2517.6	2280.7
52.5°	502.3	507.7	547.5	746.2	928.2	1362.3	1976.4	2564.0	2650.5	2635.7	2372.7
55°	471.1	475.0	497.2	609.4	853.0	1259.4	1981.1	2679.4	2749.9	2730.4	2470.5
57.5°	439.2	443.4	468.0	525.7	777.4	1098.5	1931.6	2777.2	2830.5	2809.5	2564.0
60°	412.3	414.6	438.8	478.5	692.0	938.7	1804.2	2843.8	2905.0	2877.7	2655.6
62.5°	387.7	390.8	408.4	444.6	620.3	819.1	1626.5	2844.2	2945.9	2929.1	2702.0
65°	355.8	360.4	377.6	410.3	562.3	737.2	1442.5	2794.7	2953.3	2928.3	2699.6
67.5°	318.7	324.6	340.2	366.3	485.1	650.0	1186.1	2729.6	2808.7	2804.4	2588.2
70°	281.7	281.7	299.3	320.3	402.5	556.4	937.1	2497.8	2588.2	2594.8	2388.3
72.5°	237.7	238.5	252.1	270.4	324.2	456.7	682.7	2135.4	2412.8	2332.5	2154.1
75°	199.5	198.7	212.8	228.0	263.8	359.7	445.4	1568.8	2205.1	2223.1	1895.7
77.5°	106.0	102.1	120.0	132.1	154.7	199.9	247.0	786.7	1596.9	1631.9	1517.8
80°	30.0	30.4	79.5	88.8	101.7	99.0	114.6	300.0	631.7	711.9	884.9
82.5°	17.9	20.7	45.2	53.0	39.7	25.7	43.6	166.8	326.9	366.3	439.2
85°	9.4	10.1	16.0	19.9	15.2	12.9	13.2	70.1	159.0	161.7	175.4
87.5°	4.3	4.3	5.8	6.2	3.9	2.3	1.6	1.2	1.2	0.8	0.8
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°	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8
2.5°	773.5	777.4	770.8	765.7	761.8	759.5	756.7	750.1	752.1	754.8	754.4
5°	777.4	779.3	767.6	751.7	736.9	726.3	719.3	708.8	708.8	713.1	713.1
7.5°	780.9	778.2	754.4	727.5	710.8	702.2	690.9	679.6	677.6	680.7	681.1
10°	782.8	771.2	738.0	713.1	691.3	673.7	659.3	646.5	646.1	650.4	651.1
12.5°	791.4	768.8	736.9	702.6	669.8	651.1	634.0	619.6	614.5	614.9	615.7
15°	804.7	778.2	735.3	688.2	652.7	627.8	602.8	584.5	579.8	586.1	588.4
17.5°	820.6	793.4	727.9	674.9	631.7	601.6	576.7	560.3	545.5	538.9	537.7
20°	841.7	806.2	731.8	655.4	611.4	571.3	540.1	520.2	507.7	507.0	506.2
22.5°	869.3	820.6	732.6	642.6	579.4	537.7	499.2	487.9	465.7	457.5	461.0
25°	906.0	842.5	730.6	628.9	554.9	498.8	452.4	431.8	423.6	414.2	415.0
27.5°	953.1	877.1	735.7	611.0	514.8	451.2	399.4	377.2	364.7	356.9	358.1
30°	1049.0	929.7	735.3	593.9	477.7	402.1	343.7	328.9	316.4	309.4	312.9
32.5°	1185.4	1043.9	751.7	570.9	435.6	336.3	296.9	280.2	269.6	261.9	263.8
35°	1354.1	1168.2	793.8	539.7	387.7	286.0	259.1	238.5	225.6	222.5	221.3
37.5°	1510.7	1278.1	833.5	519.0	332.8	258.3	224.4	203.8	192.5	196.4	196.4
40°	1650.6	1423.8	878.3	485.9	282.9	226.8	185.9	176.5	170.7	177.3	179.6
42.5°	1756.2	1563.7	939.1	442.3	242.4	189.4	159.0	165.6	167.9	172.6	171.5
45°	1887.2	1643.6	999.1	401.7	206.9	157.8	153.5	167.2	172.6	176.9	175.0
47.5°	2007.6	1705.6	987.0	326.9	174.2	152.7	156.3	167.2	176.5	183.5	182.4
50°	2111.2	1783.1	964.0	254.1	167.2	157.4	159.0	162.9	176.9	181.6	181.6
52.5°	2175.9	1859.9	935.6	205.4	172.2	163.3	160.5	160.2	169.5	173.0	169.9
55°	2253.8	1939.4	861.9	190.5	174.2	167.2	164.8	161.3	164.0	161.3	162.9
57.5°	2340.3	2017.7	748.9	186.3	173.0	166.0	178.5	159.8	158.2	148.5	146.1
60°	2416.3	2048.5	650.0	176.5	166.8	162.9	166.0	157.8	150.0	137.2	132.1
62.5°	2444.8	2045.8	549.4	166.4	157.4	158.2	157.8	152.0	145.0	132.1	129.0
65°	2410.5	1983.4	445.4	154.3	150.0	153.1	149.2	140.7	129.0	118.5	115.7
67.5°	2294.4	1824.4	330.8	138.3	137.9	143.8	141.1	129.4	116.5	108.3	108.3
70°	2072.2	1628.8	214.3	115.0	123.5	133.7	133.7	121.2	104.4	97.4	99.4
72.5°	1829.1	1401.6	138.7	85.3	97.4	121.2	120.4	111.8	96.2	87.3	87.7
75°	1584.4	1112.1	89.6	58.8	63.1	103.3	106.8	91.2	74.8	63.9	62.0
77.5°	1204.5	836.6	56.9	34.3	40.1	63.1	81.1	76.0	76.4	93.1	92.4
80°	740.8	504.2	41.3	16.8	19.9	41.3	65.5	72.5	101.7	67.0	61.6
82.5°	371.0	235.7	21.8	10.1	11.3	18.3	39.0	86.9	74.0	44.4	42.1
85°	138.7	63.5	6.6	5.1	6.2	9.4	16.0	79.5	47.1	35.5	34.7
87.5°	0.8	1.2	1.2	1.6	2.3	2.7	5.8	37.8	23.8	17.1	16.4
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)