

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: P233454

Luminaire Tested: **VERD-C015-D-U-T2-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233454
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-C015-D-U-T2-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 750mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3474 lumens
Efficiency: N/A
Efficacy: 115.8 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): 30
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

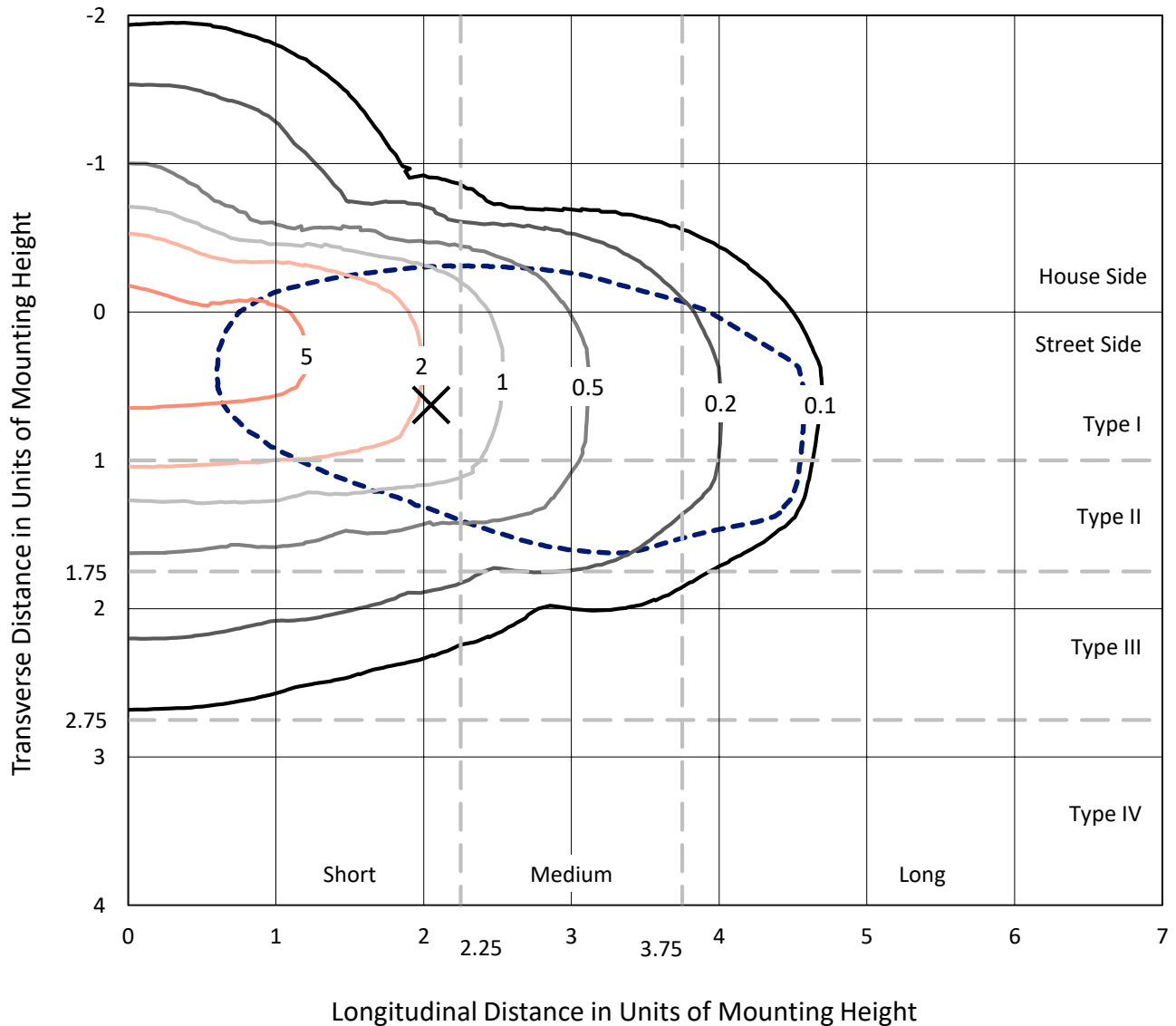


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

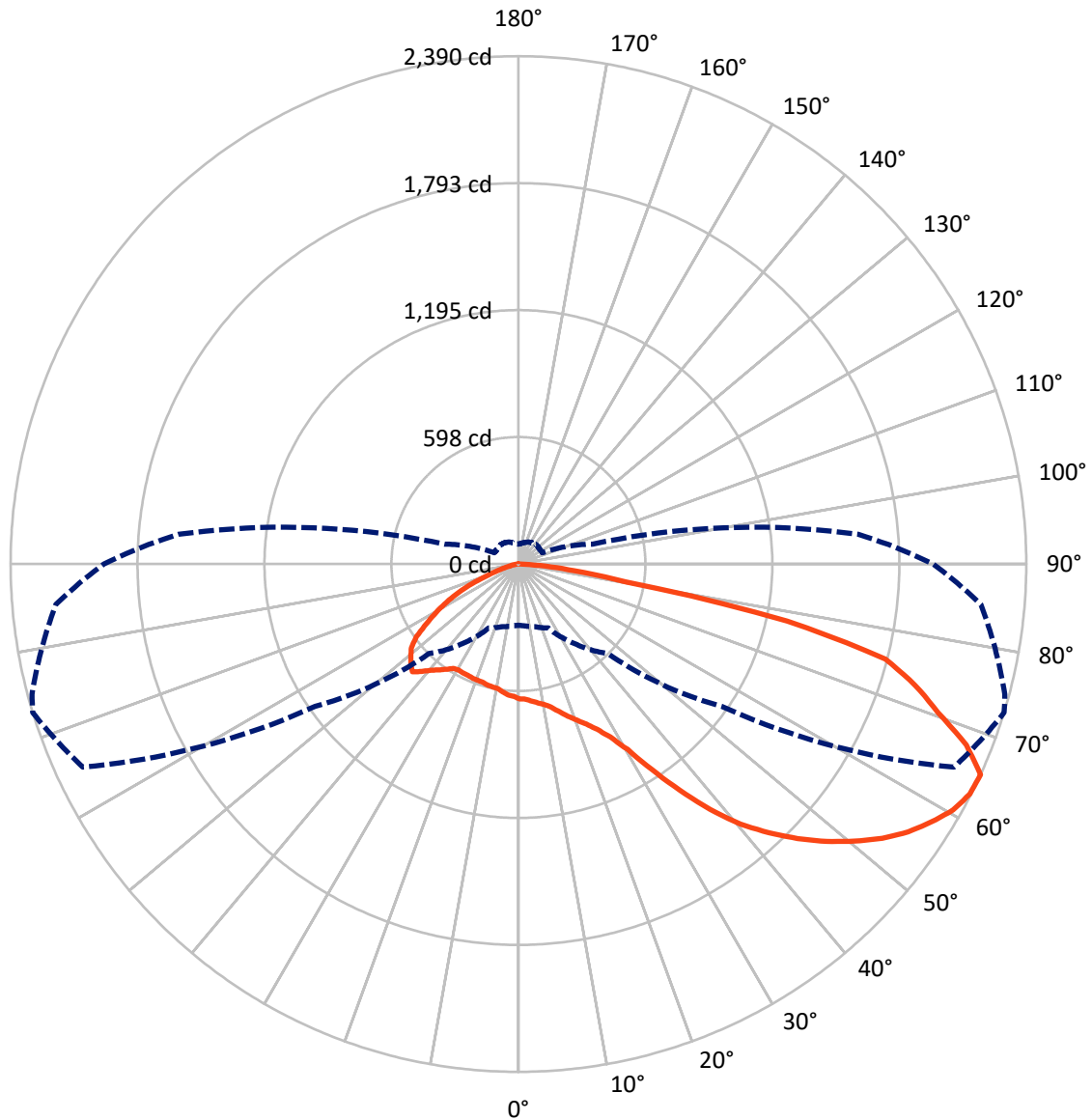


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - Non-Cutoff

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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	890.5	0.0	890.5
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	2583.5	0.0	2583.5
	% Fixture	74.4	0.0	74.4
Total	Lumens	3474.0	0.0	3474.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	1.7
10°-20°	183.3	5.3
20°-30°	307.4	8.8
30°-40°	450.9	13.0
40°-50°	609.3	17.5
50°-60°	705.9	20.3
60°-70°	689.5	19.8
70°-80°	414.1	11.9
80°-90°	53.0	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°	3474.0	100.0
0°-180°	3474.0	100.0



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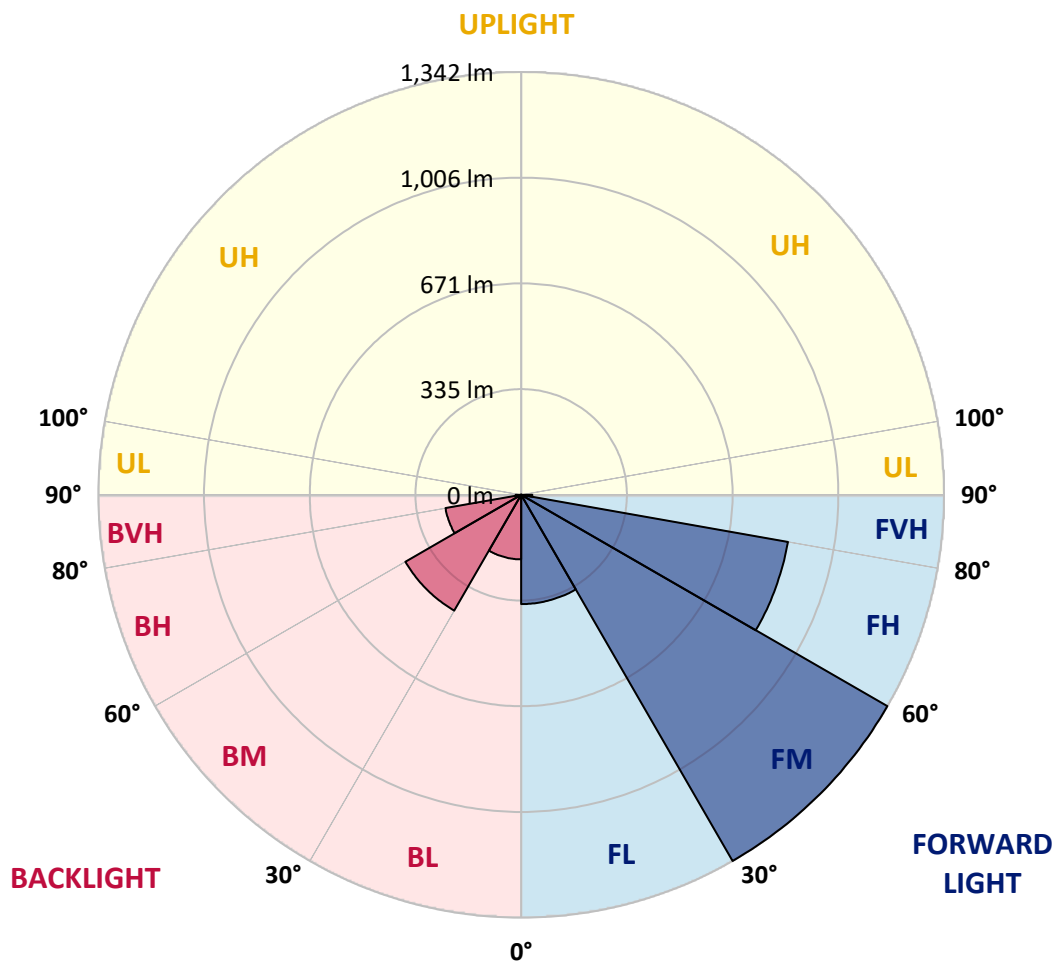
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	346.6	10.0			
FM	(30°-60°)	1341.8	38.6			
FH	(60°-80°)	859.7	24.7			G1/1800
FVH	(80°-90°)	35.3	1.0			G1/100
BL	(0°-30°)	204.7	5.9	B1/500		
BM	(30°-60°)	424.3	12.2	B1/1000		
BH	(60°-80°)	243.8	7.0	B1/500		G1/500
BVH	(80°-90°)	17.7	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°	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
2.5°	674.3	676.9	674.0	665.8	661.7	658.9	650.4	642.8	636.8	636.2	630.5
5°	700.2	704.0	699.2	688.8	684.7	678.7	669.3	658.9	648.1	645.9	634.6
7.5°	733.0	733.6	731.1	720.7	712.2	699.6	683.2	672.1	659.8	656.4	638.4
10°	760.7	760.4	757.3	747.2	738.7	727.6	704.6	686.6	672.1	667.7	642.8
12.5°	787.2	786.6	783.5	773.0	762.3	753.2	735.8	711.5	692.0	686.3	655.4
15°	820.0	818.5	813.4	799.5	791.0	780.3	767.7	743.4	721.0	713.1	673.7
17.5°	845.3	845.0	841.2	829.5	819.4	807.7	796.1	777.1	752.9	744.0	691.7
20°	859.8	858.5	857.6	848.4	845.9	839.6	822.9	808.4	784.1	774.9	711.9
22.5°	875.2	875.6	875.9	871.1	878.4	873.0	860.7	843.1	818.5	808.1	740.2
25°	878.7	879.3	885.6	896.1	904.9	914.7	905.8	888.5	862.0	851.0	779.0
27.5°	868.9	871.5	890.4	908.0	939.3	951.9	950.3	949.4	922.2	911.2	832.3
30°	877.8	877.8	890.7	921.0	960.4	993.5	1000.8	1021.0	1012.8	1004.9	921.9
32.5°	851.3	856.0	879.0	921.3	983.7	1032.0	1064.8	1120.9	1153.4	1146.8	1048.7
35°	801.4	807.7	841.5	906.1	995.4	1077.4	1136.1	1244.3	1307.0	1314.9	1201.4
37.5°	763.0	768.3	810.6	882.5	999.8	1120.0	1218.4	1383.0	1464.1	1460.0	1330.7
40°	716.0	725.4	768.0	854.4	989.4	1156.3	1307.7	1510.5	1610.1	1591.2	1453.7
42.5°	673.7	681.9	717.5	809.6	974.9	1176.8	1388.4	1641.7	1729.0	1713.9	1570.1
45°	628.9	636.2	669.3	756.0	941.2	1186.9	1464.1	1767.2	1843.2	1826.2	1677.9
47.5°	577.5	587.3	626.7	705.6	891.6	1180.5	1519.3	1876.3	1951.7	1939.1	1767.2
50°	447.9	458.0	561.1	658.2	822.9	1154.4	1568.8	1985.5	2049.8	2037.8	1846.0
52.5°	406.6	411.0	443.1	604.0	751.3	1102.6	1599.7	2075.3	2145.4	2133.4	1920.5
55°	381.3	384.5	402.5	493.3	690.4	1019.4	1603.5	2168.7	2225.8	2210.0	1999.6
57.5°	355.5	358.9	378.8	425.5	629.2	889.1	1563.4	2247.9	2291.1	2274.0	2075.3
60°	333.7	335.6	355.1	387.3	560.2	759.8	1460.3	2301.8	2351.3	2329.2	2149.5
62.5°	313.8	316.3	330.5	359.9	502.1	663.0	1316.5	2302.1	2384.4	2370.9	2187.0
65°	288.0	291.7	305.6	332.1	455.1	596.7	1167.6	2262.1	2390.4	2370.2	2185.1
67.5°	258.0	262.7	275.3	296.5	392.7	526.1	960.1	2209.4	2273.4	2269.9	2094.9
70°	228.0	228.0	242.2	259.3	325.8	450.4	758.5	2021.7	2094.9	2100.3	1933.1
72.5°	192.4	193.0	204.1	218.9	262.4	369.7	552.6	1728.4	1953.0	1888.0	1743.5
75°	161.5	160.9	172.2	184.5	213.5	291.1	360.5	1269.8	1784.9	1799.4	1534.4
77.5°	85.8	82.6	97.1	106.9	125.2	161.8	200.0	636.8	1292.5	1320.9	1228.5
80°	24.3	24.6	64.3	71.9	82.3	80.1	92.7	242.9	511.3	576.2	716.3
82.5°	14.5	16.7	36.6	42.9	32.2	20.8	35.3	135.0	264.6	296.5	355.5
85°	7.6	8.2	12.9	16.1	12.3	10.4	10.7	56.8	128.7	130.9	141.9
87.5°	3.5	3.5	4.7	5.0	3.2	1.9	1.3	0.9	0.9	0.6	0.6
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°	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
2.5°	626.1	629.2	623.9	619.8	616.6	614.7	612.5	607.1	608.7	610.9	610.6
5°	629.2	630.8	621.3	608.4	596.4	587.9	582.2	573.7	573.7	577.2	577.2
7.5°	632.1	629.9	610.6	588.9	575.3	568.4	559.2	550.1	548.5	551.0	551.3
10°	633.6	624.2	597.4	577.2	559.5	545.3	533.7	523.3	522.9	526.4	527.0
12.5°	640.6	622.3	596.4	568.7	542.2	527.0	513.2	501.5	497.4	497.7	498.3
15°	651.3	629.9	595.2	557.0	528.3	508.1	487.9	473.1	469.3	474.4	476.3
17.5°	664.2	642.2	589.2	546.3	511.3	487.0	466.8	453.5	441.6	436.2	435.3
20°	681.3	652.6	592.3	530.5	494.9	462.4	437.1	421.1	411.0	410.3	409.7
22.5°	703.7	664.2	593.0	520.1	469.0	435.3	404.0	394.9	376.9	370.3	373.1
25°	733.3	681.9	591.4	509.1	449.1	403.7	366.2	349.5	342.8	335.3	335.9
27.5°	771.5	710.0	595.5	494.5	416.6	365.2	323.3	305.3	295.2	288.9	289.9
30°	849.1	752.5	595.2	480.7	386.7	325.5	278.2	266.2	256.1	250.4	253.3
32.5°	959.5	845.0	608.4	462.1	352.6	272.2	240.3	226.8	218.3	211.9	213.5
35°	1096.0	945.6	642.5	436.8	313.8	231.5	209.7	193.0	182.6	180.1	179.1
37.5°	1222.8	1034.5	674.6	420.1	269.4	209.1	181.7	165.0	155.8	159.0	159.0
40°	1336.0	1152.5	710.9	393.3	229.0	183.6	150.4	142.9	138.1	143.5	145.4
42.5°	1421.5	1265.7	760.1	358.0	196.2	153.3	128.7	134.0	135.9	139.7	138.8
45°	1527.5	1330.4	808.7	325.2	167.5	127.7	124.3	135.3	139.7	143.2	141.6
47.5°	1624.9	1380.5	798.9	264.6	141.0	123.6	126.5	135.3	142.9	148.6	147.6
50°	1708.8	1443.3	780.3	205.6	135.3	127.4	128.7	131.8	143.2	147.0	147.0
52.5°	1761.2	1505.4	757.3	166.2	139.4	132.2	129.9	129.6	137.2	140.0	137.5
55°	1824.3	1569.8	697.7	154.2	141.0	135.3	133.4	130.6	132.8	130.6	131.8
57.5°	1894.3	1633.1	606.2	150.8	140.0	134.4	144.5	129.3	128.1	120.2	118.3
60°	1955.8	1658.1	526.1	142.9	135.0	131.8	134.4	127.7	121.4	111.0	106.9
62.5°	1978.8	1655.9	444.7	134.7	127.4	128.1	127.7	123.0	117.3	106.9	104.4
65°	1951.1	1605.4	360.5	124.9	121.4	124.0	120.8	113.9	104.4	95.9	93.7
67.5°	1857.1	1476.7	267.8	112.0	111.7	116.4	114.2	104.7	94.3	87.7	87.7
70°	1677.3	1318.4	173.5	93.0	100.0	108.2	108.2	98.1	84.5	78.9	80.4
72.5°	1480.5	1134.5	112.3	69.1	78.9	98.1	97.5	90.5	77.9	70.6	71.0
75°	1282.4	900.2	72.5	47.6	51.1	83.6	86.4	73.8	60.6	51.7	50.1
77.5°	974.9	677.2	46.0	27.8	32.5	51.1	65.6	61.5	61.8	75.4	74.8
80°	599.6	408.1	33.4	13.6	16.1	33.4	53.0	58.7	82.3	54.2	49.8
82.5°	300.3	190.8	17.7	8.2	9.1	14.8	31.5	70.3	59.9	36.0	34.1
85°	112.3	51.4	5.4	4.1	5.0	7.6	12.9	64.3	38.2	28.7	28.1
87.5°	0.6	0.9	0.9	1.3	1.9	2.2	4.7	30.6	19.2	13.9	13.2
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)