

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: P234023

Luminaire Tested: **VERD-C013-D-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234023
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-C013-D-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 560mA LED AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3026 lumens
Efficiency: N/A
Efficacy: 126.1 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

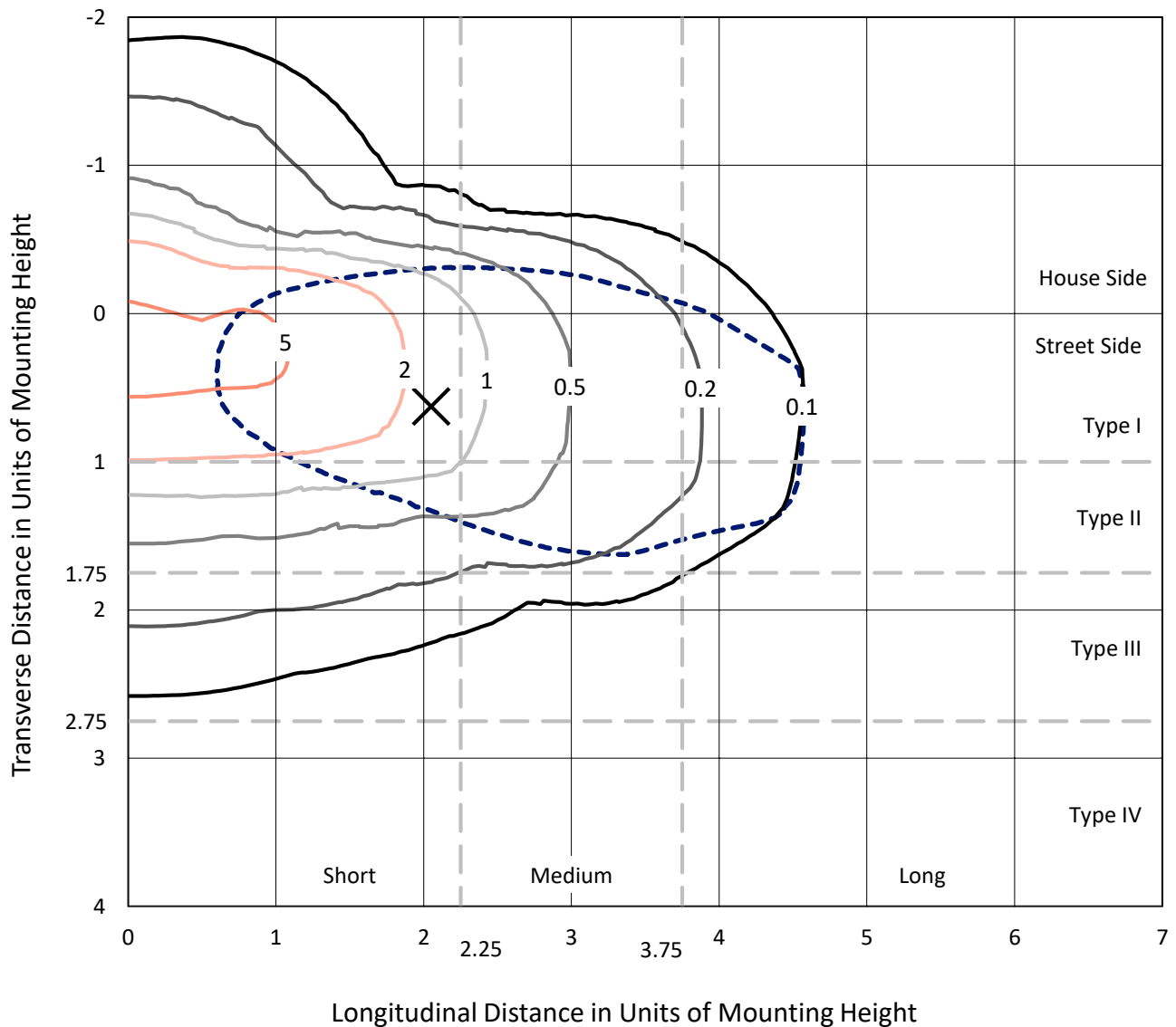
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P234023
 CATALOG NUMBER: VERD-C013-D-U-T2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

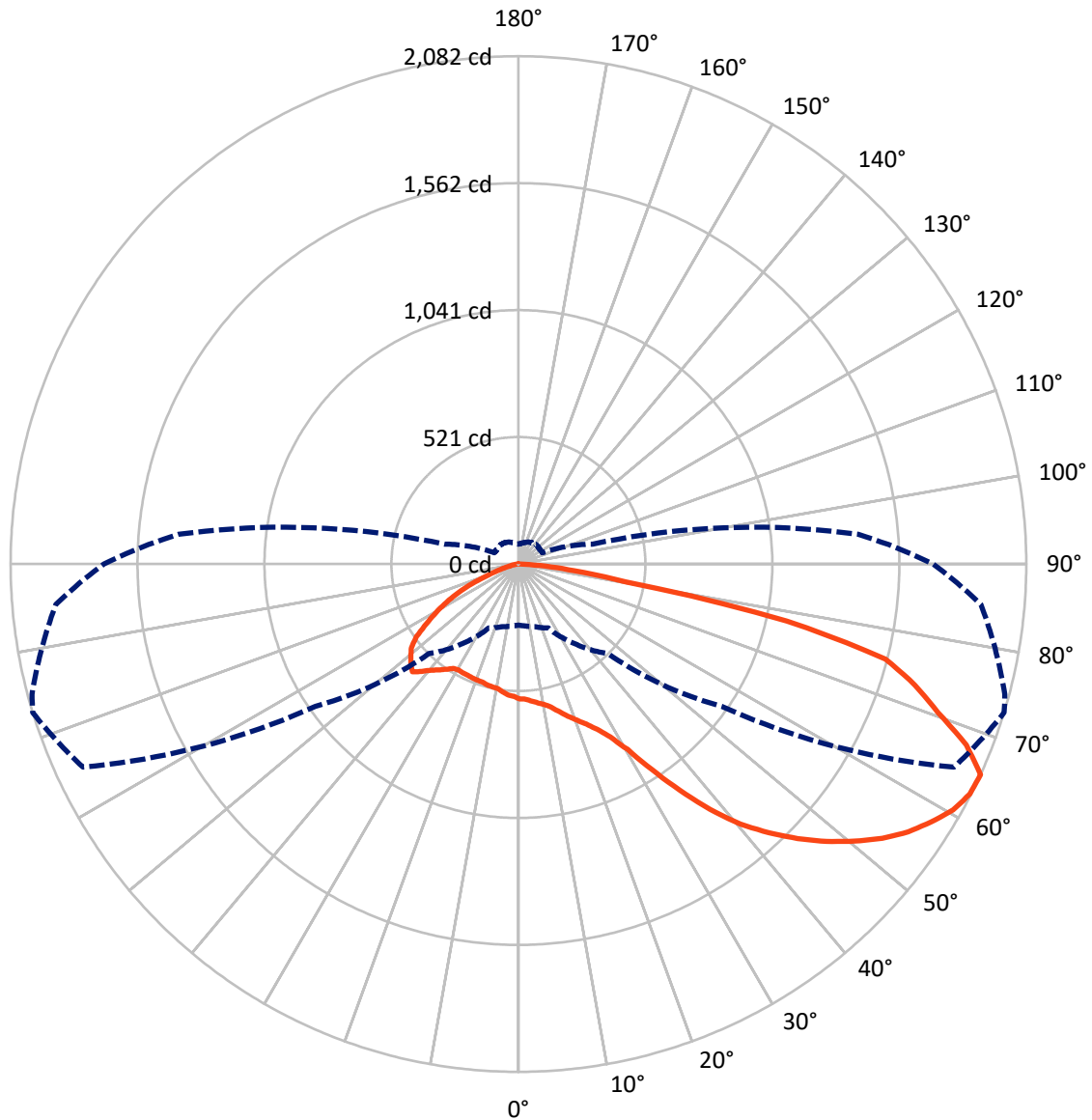


Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P234023

CATALOG NUMBER: VERD-C013-D-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P234023

CATALOG NUMBER: VERD-C013-D-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	775.7	0.0	775.7
	% Fixture	25.6	0.0	25.6
Street Side	Lumens	2250.3	0.0	2250.3
	% Fixture	74.4	0.0	74.4
Total	Lumens	3026.0	0.0	3026.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.7
10°-20°	159.6	5.3
20°-30°	267.8	8.8
30°-40°	392.7	13.0
40°-50°	530.8	17.5
50°-60°	614.8	20.3
60°-70°	600.6	19.8
70°-80°	360.7	11.9
80°-90°	46.2	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°	3026.0	100.0
0°-180°	3026.0	100.0



REPORT NUMBER: P234023

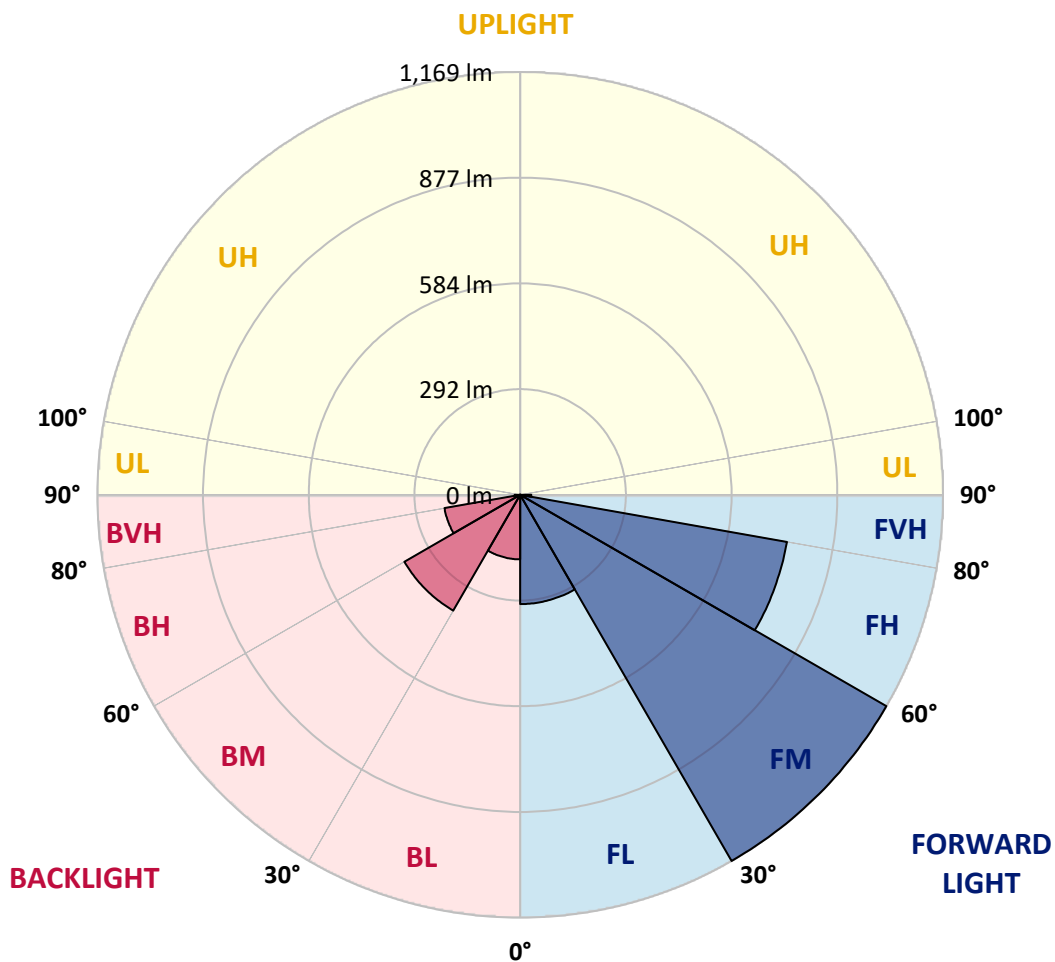
CATALOG NUMBER: VERD-C013-D-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.9	10.0			
FM	(30°-60°)	1168.7	38.6			
FH	(60°-80°)	748.9	24.7			G1/1800
FVH	(80°-90°)	30.8	1.0			G1/100
BL	(0°-30°)	178.3	5.9	B1/500		
BM	(30°-60°)	369.6	12.2	B1/1000		
BH	(60°-80°)	212.4	7.0	B1/500		G1/500
BVH	(80°-90°)	15.4	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: P234023

CATALOG NUMBER: VERD-C013-D-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3
2.5°	587.4	589.6	587.1	580.0	576.4	573.9	566.5	559.9	554.7	554.1	549.2
5°	609.9	613.2	609.1	600.0	596.4	591.2	583.0	573.9	564.6	562.6	552.8
7.5°	638.5	639.0	636.8	627.8	620.3	609.3	595.1	585.4	574.7	571.7	556.0
10°	662.6	662.4	659.6	650.8	643.4	633.8	613.7	598.1	585.4	581.6	559.9
12.5°	685.7	685.2	682.4	673.4	664.0	656.1	640.9	619.8	602.8	597.8	570.9
15°	714.3	712.9	708.5	696.4	689.0	679.7	668.7	647.5	628.0	621.2	586.8
17.5°	736.3	736.0	732.7	722.5	713.7	703.6	693.4	676.9	655.8	648.1	602.5
20°	748.9	747.8	747.0	739.0	736.8	731.3	716.8	704.1	683.0	675.0	620.1
22.5°	762.4	762.6	762.9	758.8	765.1	760.4	749.7	734.3	712.9	703.9	644.8
25°	765.4	765.9	771.4	780.5	788.2	796.7	789.0	773.9	750.8	741.2	678.6
27.5°	756.9	759.1	775.6	790.9	818.1	829.1	827.8	826.9	803.3	793.7	725.0
30°	764.6	764.6	775.8	802.2	836.5	865.4	871.7	889.3	882.2	875.3	803.0
32.5°	741.5	745.6	765.7	802.5	856.9	898.9	927.5	976.4	1004.7	998.9	913.5
35°	698.1	703.6	733.0	789.3	867.0	938.5	989.6	1083.8	1138.5	1145.3	1046.4
37.5°	664.6	669.2	706.1	768.7	870.9	975.6	1061.3	1204.7	1275.3	1271.7	1159.1
40°	623.6	631.9	669.0	744.2	861.8	1007.2	1139.0	1315.7	1402.5	1386.0	1266.2
42.5°	586.8	594.0	625.0	705.2	849.2	1025.0	1209.4	1430.0	1506.1	1492.9	1367.6
45°	547.8	554.1	583.0	658.5	819.8	1033.8	1275.3	1539.3	1605.5	1590.7	1461.6
47.5°	503.0	511.5	545.9	614.6	776.7	1028.3	1323.4	1634.4	1700.0	1689.0	1539.3
50°	390.1	398.9	488.7	573.4	716.8	1005.5	1366.5	1729.4	1785.5	1775.0	1608.0
52.5°	354.1	358.0	386.0	526.1	654.4	960.4	1393.4	1807.7	1868.7	1858.3	1672.8
55°	332.1	334.9	350.6	429.7	601.4	887.9	1396.7	1889.0	1938.8	1925.0	1741.8
57.5°	309.6	312.6	329.9	370.6	548.1	774.5	1361.8	1958.0	1995.6	1980.8	1807.7
60°	290.7	292.3	309.3	337.4	487.9	661.8	1272.0	2005.0	2048.1	2028.9	1872.3
62.5°	273.4	275.6	287.9	313.5	437.4	577.5	1146.7	2005.2	2076.9	2065.1	1905.0
65°	250.8	254.1	266.2	289.3	396.4	519.8	1017.0	1970.3	2082.2	2064.6	1903.3
67.5°	224.7	228.8	239.8	258.2	342.0	458.2	836.3	1924.5	1980.2	1977.2	1824.7
70°	198.6	198.6	211.0	225.8	283.8	392.3	660.7	1761.0	1824.7	1829.4	1683.8
72.5°	167.6	168.1	177.7	190.7	228.6	322.0	481.3	1505.5	1701.1	1644.5	1518.7
75°	140.7	140.1	150.0	160.7	186.0	253.6	314.0	1106.1	1554.7	1567.3	1336.6
77.5°	74.7	72.0	84.6	93.1	109.1	140.9	174.2	554.7	1125.8	1150.6	1070.1
80°	21.2	21.4	56.0	62.6	71.7	69.8	80.8	211.5	445.3	501.9	623.9
82.5°	12.6	14.6	31.9	37.4	28.0	18.1	30.8	117.6	230.5	258.2	309.6
85°	6.6	7.1	11.3	14.0	10.7	9.1	9.3	49.5	112.1	114.0	123.6
87.5°	3.0	3.0	4.1	4.4	2.7	1.6	1.1	0.8	0.8	0.5	0.5
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: P234023

CATALOG NUMBER: VERD-C013-D-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3	553.3
2.5°	545.3	548.1	543.4	539.8	537.1	535.4	533.5	528.9	530.2	532.1	531.9
5°	548.1	549.5	541.2	530.0	519.5	512.1	507.1	499.7	499.7	502.8	502.8
7.5°	550.6	548.6	531.9	512.9	501.1	495.1	487.1	479.1	477.8	479.9	480.2
10°	551.9	543.7	520.3	502.8	487.4	475.0	464.8	455.8	455.5	458.5	459.1
12.5°	558.0	542.0	519.5	495.3	472.3	459.1	447.0	436.8	433.2	433.5	434.1
15°	567.3	548.6	518.4	485.2	460.2	442.6	425.0	412.1	408.8	413.2	414.8
17.5°	578.6	559.3	513.2	475.8	445.3	424.2	406.6	395.1	384.6	379.9	379.1
20°	593.4	568.4	515.9	462.1	431.0	402.8	380.8	366.8	358.0	357.4	356.9
22.5°	612.9	578.6	516.5	453.0	408.5	379.1	351.9	344.0	328.3	322.5	325.0
25°	638.7	594.0	515.1	443.4	391.2	351.7	319.0	304.4	298.6	292.0	292.6
27.5°	672.0	618.4	518.7	430.8	362.9	318.1	281.6	265.9	257.1	251.7	252.5
30°	739.6	655.5	518.4	418.7	336.8	283.5	242.3	231.9	223.1	218.1	220.6
32.5°	835.7	736.0	530.0	402.5	307.1	237.1	209.3	197.5	190.1	184.6	186.0
35°	954.7	823.6	559.6	380.5	273.4	201.7	182.7	168.1	159.1	156.9	156.0
37.5°	1065.1	901.1	587.6	365.9	234.6	182.1	158.2	143.7	135.7	138.5	138.5
40°	1163.7	1003.9	619.2	342.6	199.5	159.9	131.0	124.5	120.3	125.0	126.6
42.5°	1238.2	1102.5	662.1	311.8	170.9	133.5	112.1	116.8	118.4	121.7	120.9
45°	1330.5	1158.8	704.4	283.2	145.9	111.3	108.2	117.9	121.7	124.7	123.4
47.5°	1415.4	1202.5	695.9	230.5	122.8	107.7	110.2	117.9	124.5	129.4	128.6
50°	1488.5	1257.2	679.7	179.1	117.9	111.0	112.1	114.8	124.7	128.0	128.0
52.5°	1534.1	1311.3	659.6	144.8	121.4	115.1	113.2	112.9	119.5	122.0	119.8
55°	1589.0	1367.3	607.7	134.3	122.8	117.9	116.2	113.7	115.7	113.7	114.8
57.5°	1650.0	1422.5	528.0	131.3	122.0	117.0	125.8	112.6	111.5	104.7	103.0
60°	1703.6	1444.2	458.2	124.5	117.6	114.8	117.0	111.3	105.8	96.7	93.1
62.5°	1723.6	1442.3	387.4	117.3	111.0	111.5	111.3	107.1	102.2	93.1	90.9
65°	1699.5	1398.4	314.0	108.8	105.8	108.0	105.2	99.2	90.9	83.5	81.6
67.5°	1617.6	1286.3	233.2	97.5	97.3	101.4	99.5	91.2	82.1	76.4	76.4
70°	1461.0	1148.4	151.1	81.0	87.1	94.2	94.2	85.4	73.6	68.7	70.1
72.5°	1289.6	988.2	97.8	60.2	68.7	85.4	84.9	78.8	67.9	61.5	61.8
75°	1117.0	784.1	63.2	41.5	44.5	72.8	75.3	64.3	52.7	45.1	43.7
77.5°	849.2	589.8	40.1	24.2	28.3	44.5	57.1	53.6	53.8	65.7	65.1
80°	522.3	355.5	29.1	11.8	14.0	29.1	46.2	51.1	71.7	47.3	43.4
82.5°	261.5	166.2	15.4	7.1	8.0	12.9	27.5	61.3	52.2	31.3	29.7
85°	97.8	44.8	4.7	3.6	4.4	6.6	11.3	56.0	33.2	25.0	24.5
87.5°	0.5	0.8	0.8	1.1	1.6	1.9	4.1	26.6	16.8	12.1	11.5
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)