

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: P233584

Luminaire Tested: **VERD-C015-D-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
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-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 750mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3884 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

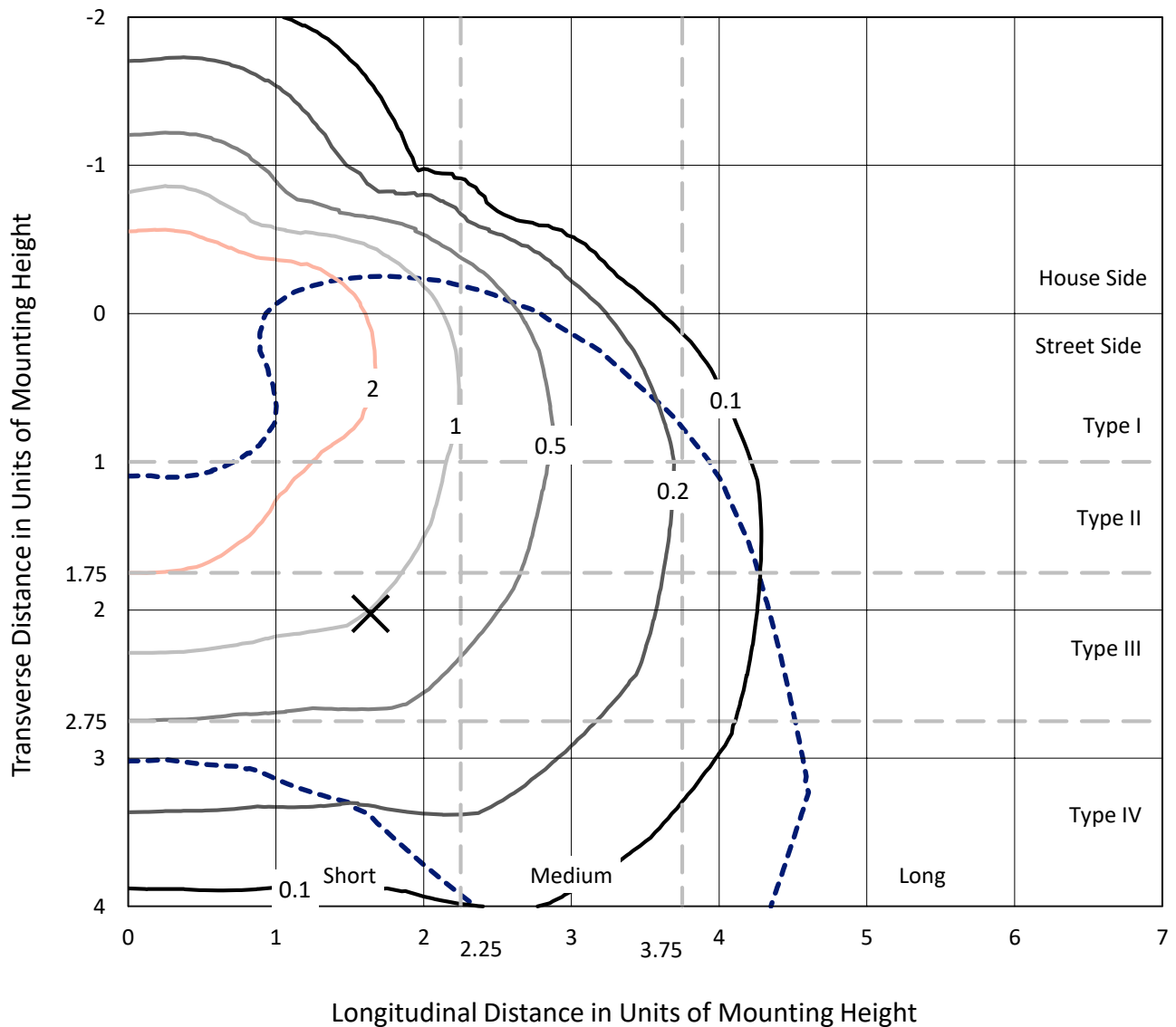


REPORT NUMBER: P233584

CATALOG NUMBER: VERD-C015-D-U-T4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

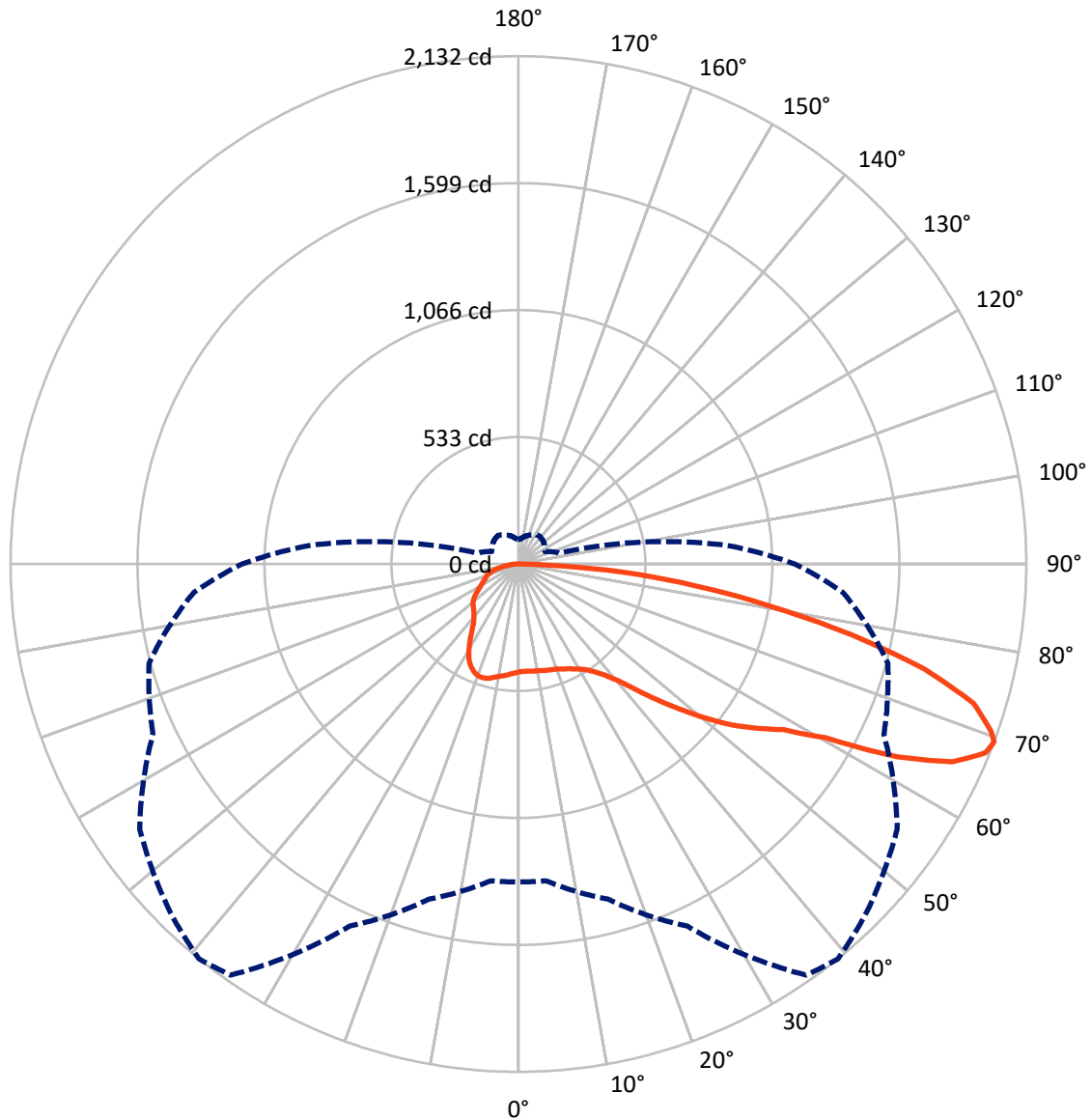


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233584

CATALOG NUMBER: VERD-C015-D-U-T4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P233584

CATALOG NUMBER: VERD-C015-D-U-T4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	910.5	0.0	910.5
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	2973.5	0.0	2973.5
	% Fixture	76.6	0.0	76.6
Total	Lumens	3884.0	0.0	3884.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.1
10°-20°	135.9	3.5
20°-30°	228.8	5.9
30°-40°	331.4	8.5
40°-50°	535.7	13.8
50°-60°	784.3	20.2
60°-70°	981.6	25.3
70°-80°	701.7	18.1
80°-90°	140.7	3.6
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°	3884.0	100.0
0°-180°	3884.0	100.0



REPORT NUMBER: P233584

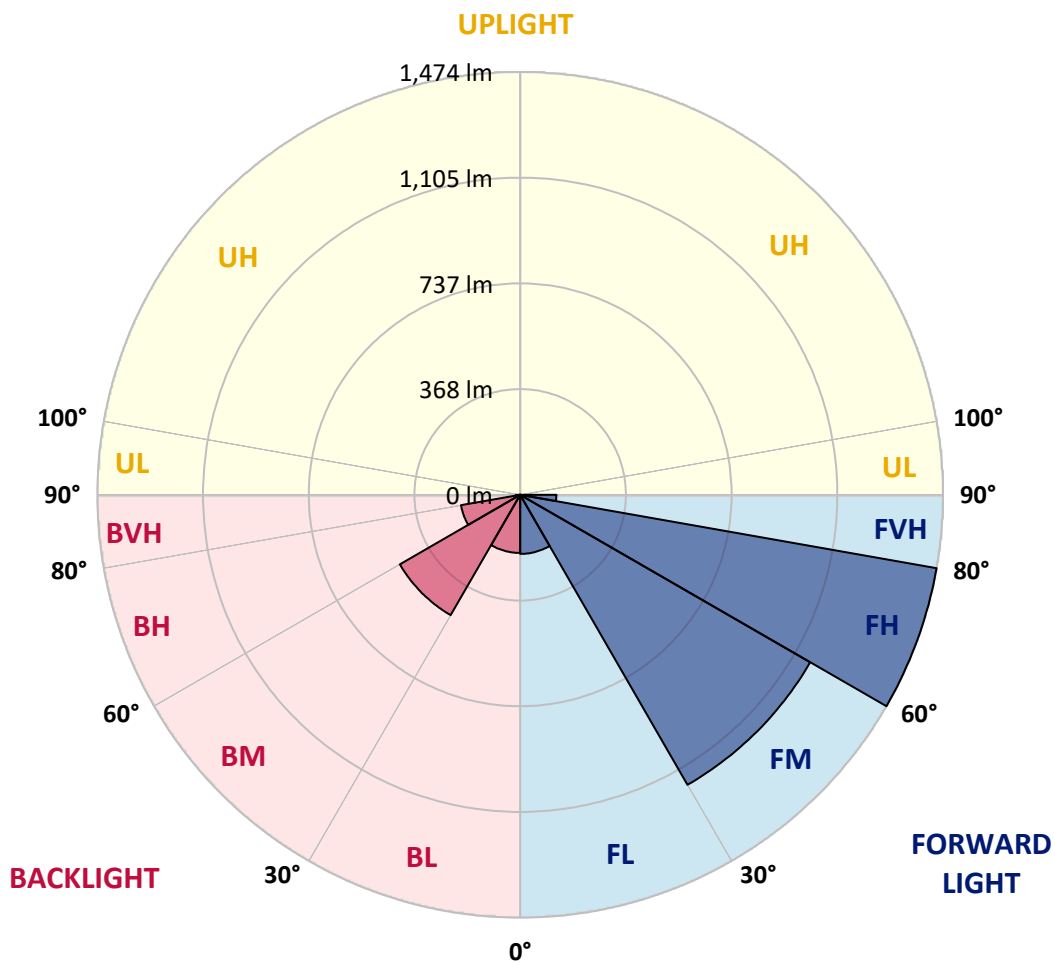
CATALOG NUMBER: VERD-C015-D-U-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	206.0	5.3			
FM (30°-60°)	1167.2	30.1			
FH (60°-80°)	1474.0	37.9			G1/1800
FVH (80°-90°)	126.3	3.3			G2/225
BL (0°-30°)	202.5	5.2	B1/500		
BM (30°-60°)	484.2	12.5	B1/1000		
BH (60°-80°)	209.4	5.4	B1/500		G1/500
BVH (80°-90°)	14.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P233584

CATALOG NUMBER: VERD-C015-D-U-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4
2.5°	460.3	459.6	458.1	452.4	451.7	451.3	452.1	449.9	449.5	450.3	449.5
5°	460.6	459.9	458.1	453.1	452.4	451.7	452.1	450.3	450.6	452.4	452.4
7.5°	461.4	460.6	458.9	453.5	454.9	454.2	455.6	453.1	453.1	454.6	454.9
10°	459.6	459.2	458.1	454.2	456.3	454.9	456.3	456.7	458.1	459.2	458.9
12.5°	454.9	454.9	454.9	453.1	459.2	458.9	461.4	463.9	467.4	469.2	470.3
15°	452.1	451.7	454.2	453.8	461.4	462.4	466.7	473.2	478.5	483.2	484.6
17.5°	454.9	454.9	458.1	457.4	464.9	465.7	470.3	479.6	488.6	497.5	501.4
20°	458.1	458.5	462.4	463.5	470.7	470.3	475.0	486.4	498.6	511.8	518.6
22.5°	468.2	467.8	471.0	468.9	477.1	478.5	482.5	492.5	509.7	526.5	537.6
25°	475.7	476.7	480.0	478.5	485.3	487.1	493.6	503.2	523.6	543.7	563.4
27.5°	482.8	485.0	487.5	487.1	496.4	498.6	503.6	518.6	542.2	566.2	593.8
30°	493.6	492.9	494.6	497.9	510.0	511.5	517.6	535.8	564.4	595.6	632.4
32.5°	507.9	507.2	509.0	511.8	526.5	530.1	538.3	558.0	594.1	631.7	676.8
35°	530.4	532.2	533.7	537.2	551.6	556.6	567.7	592.7	634.6	694.7	759.1
37.5°	608.8	604.9	597.0	582.7	586.6	592.4	608.1	643.9	704.7	806.8	865.8
40°	731.2	726.6	701.9	660.0	641.0	642.5	657.9	706.5	789.6	938.5	992.9
42.5°	846.5	840.8	811.4	759.1	721.6	717.3	718.7	774.9	882.6	1070.2	1099.2
45°	955.3	958.2	913.4	873.3	830.4	810.7	804.6	846.5	986.1	1184.4	1193.3
47.5°	1059.4	1061.6	1011.1	972.5	930.9	908.0	896.2	928.8	1081.3	1276.7	1268.5
50°	1165.7	1171.5	1102.4	1069.5	1031.2	1014.7	1003.2	1024.7	1186.5	1365.1	1339.7
52.5°	1315.7	1291.7	1201.2	1154.6	1127.4	1122.4	1110.6	1128.2	1298.2	1443.1	1390.2
55°	1482.5	1431.3	1336.1	1254.9	1217.3	1217.3	1206.9	1227.3	1413.4	1501.5	1431.3
57.5°	1536.5	1541.6	1508.6	1420.2	1319.3	1311.4	1301.4	1329.3	1512.2	1553.7	1446.7
60°	1631.0	1645.0	1670.4	1596.7	1546.9	1480.0	1419.2	1434.2	1597.4	1596.7	1463.2
62.5°	1677.9	1691.2	1770.6	1730.9	1777.8	1782.4	1668.6	1552.7	1660.4	1618.2	1471.1
65°	1633.5	1642.9	1748.8	1801.1	1937.1	2001.8	1945.7	1711.9	1693.7	1609.2	1441.7
67.5°	1487.9	1505.4	1593.1	1752.4	2079.2	2115.3	2062.7	1930.6	1708.0	1612.1	1418.1
69°	1334.7	1335.0	1456.7	1677.6	2107.1	2132.1	2067.7	1941.0	1693.0	1605.3	1367.6
70°	1248.4	1257.4	1347.6	1612.8	2096.7	2104.9	2055.5	1940.6	1682.6	1603.1	1319.7
72.5°	974.3	969.6	1059.4	1348.6	1979.3	1997.6	1943.1	1885.9	1674.0	1510.8	1116.4
75°	681.1	695.4	783.5	1021.9	1705.5	1760.2	1760.2	1811.8	1540.8	1291.0	807.1
77.5°	506.8	509.0	579.5	780.6	1372.3	1429.2	1481.4	1524.7	1204.4	884.4	360.8
80°	343.2	346.5	410.9	575.9	1016.9	1069.1	1151.8	1049.1	716.6	306.0	41.2
82.5°	216.2	220.5	271.7	404.4	724.8	748.4	773.8	592.4	238.7	35.4	26.1
85°	128.5	129.2	163.9	258.4	442.0	443.5	416.3	272.7	64.1	21.1	16.5
87.5°	53.7	56.6	71.6	114.5	129.6	102.4	63.7	21.8	9.7	8.6	5.7
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: P233584

CATALOG NUMBER: VERD-C015-D-U-T4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4	452.4
2.5°	447.4	451.3	450.6	451.7	453.1	456.0	459.2	457.8	459.6	463.5	463.5
5°	451.3	454.6	455.6	457.8	459.6	462.4	464.6	463.9	467.8	473.5	473.5
7.5°	454.6	457.1	460.6	463.1	464.9	470.7	472.8	471.4	474.2	481.0	481.4
10°	459.2	461.7	467.1	469.6	473.2	476.0	478.9	478.5	481.4	487.5	488.6
12.5°	470.7	472.5	480.0	483.5	483.5	487.1	485.0	481.4	482.8	486.4	487.1
15°	485.7	488.2	497.9	499.7	497.9	498.6	493.6	482.1	476.4	477.5	477.8
17.5°	502.9	507.2	518.3	515.8	513.6	508.2	495.4	478.2	461.0	454.6	455.6
20°	521.1	526.5	539.4	534.0	526.1	512.2	491.4	462.1	435.6	420.2	419.5
22.5°	542.2	549.0	561.2	551.9	534.4	510.0	478.2	442.4	408.7	384.8	383.3
25°	571.2	578.8	583.1	564.4	535.8	502.2	459.2	415.5	373.3	344.7	342.5
27.5°	604.2	608.1	599.5	571.6	529.0	485.3	435.6	381.5	335.0	311.4	308.2
30°	640.7	637.5	610.6	568.0	511.5	458.9	398.7	338.2	301.0	282.0	279.2
32.5°	682.9	672.9	619.2	558.0	488.2	424.1	358.6	310.7	281.0	262.0	260.6
35°	752.3	723.7	633.2	542.6	457.4	383.3	321.8	287.1	263.8	240.2	236.6
37.5°	852.9	798.9	653.6	528.3	424.1	344.0	293.9	268.1	247.7	221.2	216.2
40°	957.4	887.3	687.2	512.5	393.0	315.0	278.5	260.2	240.2	215.1	208.3
42.5°	1053.0	971.4	726.6	492.9	360.4	291.7	270.9	258.1	238.0	214.4	209.0
45°	1139.6	1050.5	767.0	470.3	324.6	273.1	264.9	254.1	233.7	211.2	206.9
47.5°	1212.6	1117.8	807.8	444.2	290.3	261.6	258.4	247.0	228.0	206.2	202.6
50°	1273.1	1166.1	831.1	416.6	262.0	253.0	249.1	234.8	215.5	195.1	192.9
52.5°	1317.9	1196.2	852.2	401.9	239.8	239.1	236.6	222.6	204.0	182.9	178.6
55°	1349.0	1220.9	842.9	390.5	216.2	221.6	220.1	211.5	195.8	171.1	167.5
57.5°	1350.8	1223.0	822.9	322.5	192.9	200.4	202.9	204.4	186.8	165.0	160.7
60°	1349.0	1207.3	785.6	236.6	170.4	179.3	188.6	188.6	176.5	155.0	151.8
62.5°	1340.8	1176.1	699.0	168.6	152.5	164.3	176.5	171.1	160.7	143.5	140.3
65°	1303.2	1124.2	546.9	137.4	145.0	155.7	161.4	153.9	140.7	122.8	121.3
67.5°	1234.8	1005.4	316.4	126.0	138.5	148.2	152.8	141.4	128.9	111.7	111.0
69°	1159.7	885.1	178.2	123.1	134.6	143.2	147.1	134.6	122.4	105.9	102.7
70°	1092.4	777.8	116.0	120.6	130.6	139.9	142.8	129.9	118.5	101.6	99.5
72.5°	827.5	468.5	78.0	110.2	119.9	127.1	131.4	119.2	106.3	89.5	85.2
75°	452.1	127.4	68.7	94.5	106.7	116.3	117.4	102.0	83.4	66.2	64.4
77.5°	88.0	43.7	59.1	78.0	84.8	96.3	95.6	85.2	72.3	56.2	54.0
80°	33.3	31.5	49.4	55.8	59.8	71.9	76.2	68.7	60.1	38.3	32.9
82.5°	22.5	23.3	36.9	32.9	36.5	42.6	53.7	52.3	47.6	26.1	23.3
85°	15.7	18.3	20.4	14.0	17.9	26.8	35.4	34.4	29.3	18.3	16.5
87.5°	4.7	5.0	5.7	7.2	11.1	20.0	29.0	24.0	16.1	13.6	11.8
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)