

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: P234025

Luminaire Tested: **VERD-C013-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)
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-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2662 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-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

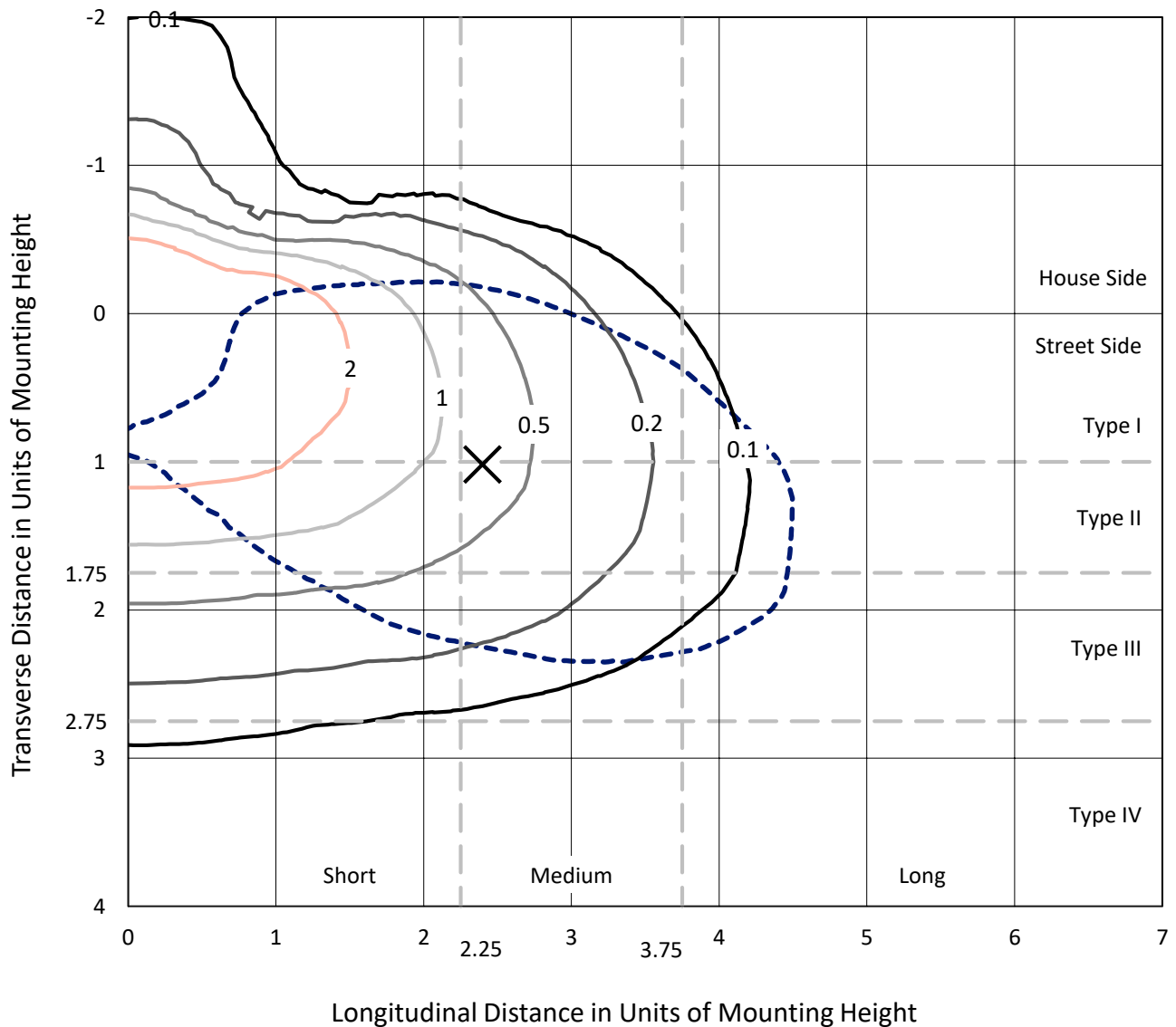


REPORT NUMBER: P234025

CATALOG NUMBER: VERD-C013-D-U-T3-8027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

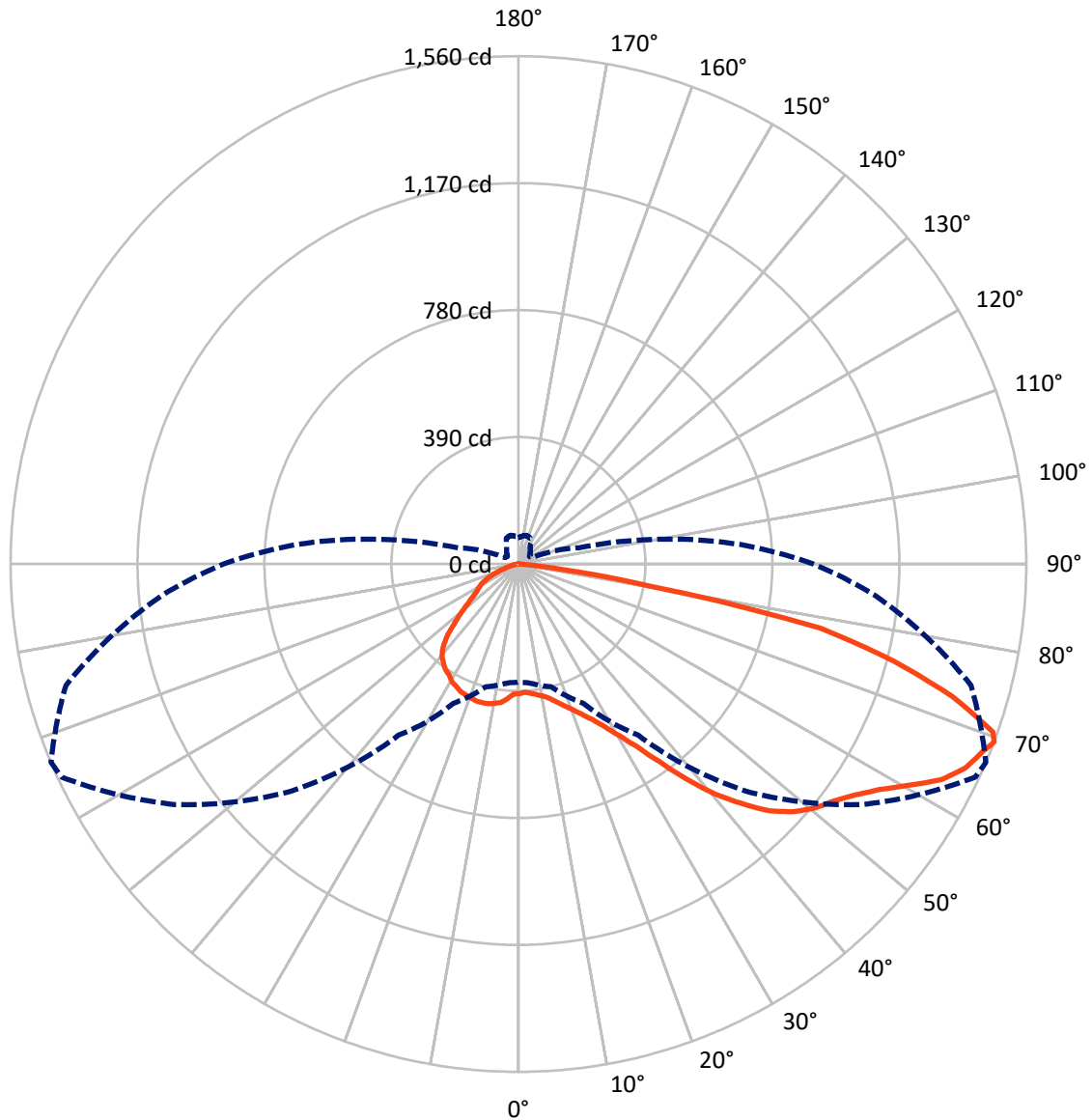


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P234025

CATALOG NUMBER: VERD-C013-D-U-T3-8027

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P234025

CATALOG NUMBER: VERD-C013-D-U-T3-8027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	599.5	0.0	599.5
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	2062.5	0.0	2062.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	2662.0	0.0	2662.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	1.5
10°-20°	128.5	4.8
20°-30°	221.4	8.3
30°-40°	329.3	12.4
40°-50°	453.6	17.0
50°-60°	542.2	20.4
60°-70°	572.2	21.5
70°-80°	342.9	12.9
80°-90°	31.5	1.2
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°	2662.0	100.0
0°-180°	2662.0	100.0



REPORT NUMBER: P234025

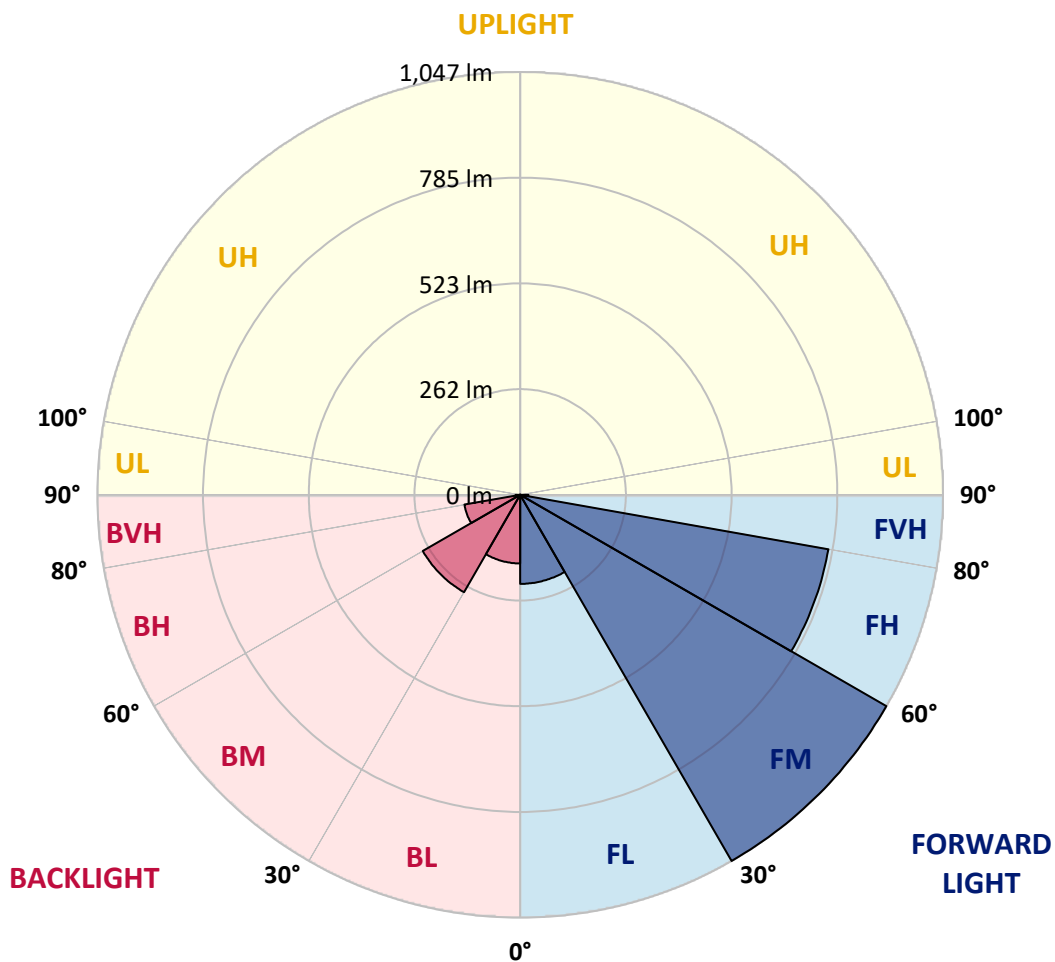
CATALOG NUMBER: VERD-C013-D-U-T3-8027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	220.4	8.3			
FM	(30°-60°)	1046.8	39.3			
FH	(60°-80°)	774.9	29.1			G1/1800
FVH	(80°-90°)	20.4	0.8			G1/100
BL	(0°-30°)	169.9	6.4	B1/500		
BM	(30°-60°)	278.3	10.5	B1/1000		
BH	(60°-80°)	140.2	5.3	B1/500		G1/500
BVH	(80°-90°)	11.1	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-G1

Type III Medium





REPORT NUMBER: P234025

CATALOG NUMBER: VERD-C013-D-U-T3-8027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2
2.5°	404.7	404.5	403.3	398.9	398.4	397.9	395.0	395.3	394.5	395.3	395.5
5°	415.9	414.9	413.7	409.1	407.4	405.2	400.8	400.6	398.9	399.4	399.9
7.5°	429.6	428.7	427.7	422.4	420.7	416.8	410.0	406.7	405.2	405.7	406.4
10°	448.3	446.6	445.1	437.4	434.7	428.2	420.0	414.2	412.2	412.9	414.9
12.5°	469.6	467.4	465.0	457.0	453.4	443.2	433.5	426.0	423.1	424.8	426.3
15°	491.6	490.4	489.4	480.0	474.9	463.8	451.7	442.2	439.6	441.0	441.8
17.5°	520.7	519.9	518.2	508.6	498.9	486.0	470.3	460.4	457.7	458.5	456.8
20°	552.4	550.4	549.5	538.6	528.4	510.7	492.6	478.5	477.8	478.1	472.7
22.5°	588.0	585.8	583.8	573.9	561.3	540.8	517.0	501.3	501.8	502.3	490.4
25°	624.3	622.6	620.9	611.4	598.8	576.3	547.8	530.1	529.9	530.1	513.6
27.5°	662.3	660.3	660.1	652.3	639.8	616.8	583.8	565.9	565.9	565.0	540.0
30°	696.1	698.1	698.1	693.7	681.9	658.9	627.9	610.0	612.4	610.5	578.8
32.5°	733.2	732.7	736.1	732.7	723.0	701.7	675.8	664.4	668.6	674.8	643.1
35°	754.7	758.1	766.6	771.4	766.8	749.4	730.5	739.2	744.8	773.1	735.1
37.5°	779.7	782.6	794.2	806.0	808.0	798.5	798.5	827.1	838.0	875.0	830.7
40°	796.8	799.7	812.3	826.1	845.0	851.5	868.5	912.8	928.3	953.2	901.9
42.5°	786.7	788.1	815.2	848.9	876.7	908.2	935.1	991.2	1006.0	1023.4	960.5
45°	768.8	771.4	801.4	855.7	903.6	966.0	999.9	1065.0	1082.0	1080.3	1005.5
47.5°	748.9	753.0	786.4	847.0	926.6	1016.1	1059.2	1127.0	1136.7	1124.6	1036.7
50°	726.9	733.9	769.5	838.2	943.3	1060.0	1103.3	1173.5	1178.6	1153.9	1064.1
52.5°	701.7	706.3	745.8	821.5	954.9	1089.0	1138.4	1208.1	1210.3	1190.2	1092.9
55°	666.9	671.0	714.8	799.3	956.6	1106.2	1160.9	1245.1	1252.4	1232.8	1119.0
57.5°	629.3	634.4	679.4	767.1	941.1	1113.2	1188.0	1292.8	1306.9	1278.8	1140.1
60°	585.8	592.3	637.8	727.9	910.6	1124.1	1238.6	1362.3	1379.7	1330.8	1160.2
62.5°	540.5	544.1	586.0	673.6	863.2	1129.7	1284.6	1441.7	1458.4	1380.0	1169.6
65°	476.8	482.7	519.9	608.5	796.4	1105.7	1306.1	1497.1	1509.2	1419.9	1160.4
67.5°	409.3	409.3	441.0	530.6	707.3	1042.3	1297.4	1523.7	1538.3	1448.0	1131.4
69°	362.6	366.2	390.4	472.0	641.9	985.9	1288.0	1548.2	1560.0	1439.0	1098.0
70°	326.8	329.9	354.4	429.4	593.3	941.4	1267.6	1537.3	1546.0	1411.4	1062.9
72.5°	240.4	243.0	260.0	299.2	446.1	759.6	1143.0	1389.9	1395.2	1269.3	937.7
75°	163.9	165.3	178.2	202.1	260.2	531.1	933.8	1174.0	1189.7	1100.9	767.8
77.5°	56.6	61.0	68.7	92.9	111.3	208.7	633.0	925.1	948.6	852.5	537.1
80°	19.4	19.1	36.8	47.7	58.6	95.9	200.2	387.8	409.8	351.5	193.4
82.5°	14.5	15.0	24.4	26.4	17.9	35.3	77.9	118.6	130.0	113.5	80.1
85°	9.2	9.0	10.9	11.4	8.2	15.0	18.9	19.1	19.8	17.2	17.4
87.5°	5.1	5.1	4.8	4.1	2.2	1.9	1.7	1.7	1.5	1.5	1.5
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: P234025

CATALOG NUMBER: VERD-C013-D-U-T3-8027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2
2.5°	394.3	397.7	398.4	399.4	401.8	405.0	409.3	409.3	411.0	416.1	417.8
5°	399.9	404.0	409.3	414.9	421.4	428.4	435.5	437.9	441.3	448.0	449.5
7.5°	408.3	412.9	422.1	429.6	435.2	442.2	448.0	449.0	453.4	459.7	460.9
10°	417.1	421.2	430.4	434.2	441.8	449.5	452.4	453.9	457.5	462.3	461.6
12.5°	428.9	430.1	436.7	439.3	443.0	447.8	449.3	449.3	451.4	459.2	459.4
15°	440.5	440.5	441.5	440.1	440.5	443.0	443.2	440.1	442.5	446.3	444.9
17.5°	452.9	449.5	445.1	438.8	433.3	433.0	428.0	420.4	418.3	423.8	423.6
20°	464.5	458.7	448.3	434.0	426.3	415.9	403.0	398.7	398.4	399.4	398.7
22.5°	479.8	467.9	449.0	429.4	408.1	391.6	381.0	366.2	365.7	363.6	360.2
25°	497.9	481.0	452.2	424.3	393.3	372.0	346.4	330.6	321.7	323.6	317.8
27.5°	521.4	500.8	453.4	413.2	373.0	336.9	306.0	285.6	277.9	274.5	270.6
30°	553.6	521.9	462.1	403.7	347.8	300.1	262.1	232.6	221.5	224.4	224.9
32.5°	605.1	561.8	466.7	385.1	318.8	260.0	210.6	178.6	172.1	180.3	182.5
35°	694.9	623.8	477.6	374.0	285.6	213.0	156.6	143.5	145.0	152.0	152.5
37.5°	783.3	702.2	511.2	349.8	245.9	157.8	121.5	114.5	121.5	130.5	131.7
40°	845.3	763.4	541.0	325.8	190.3	114.2	92.7	84.2	94.4	108.7	111.3
42.5°	900.2	812.1	562.1	292.6	130.2	81.6	66.6	68.7	83.8	94.2	96.6
45°	939.7	845.5	576.6	249.6	83.0	61.7	59.5	66.6	80.8	89.1	89.8
47.5°	964.6	865.1	565.9	196.5	62.5	58.3	58.6	67.5	81.8	91.0	90.8
50°	987.1	875.5	531.3	155.9	59.3	55.9	59.8	70.2	85.0	93.4	92.9
52.5°	1011.1	885.7	489.2	122.2	56.9	54.7	61.2	71.9	85.0	90.3	89.6
55°	1031.6	894.6	457.5	98.3	55.2	54.5	62.7	74.6	84.5	86.7	85.2
57.5°	1042.3	879.4	423.1	82.5	53.5	54.5	63.7	74.1	87.4	94.4	92.9
60°	1036.5	865.1	395.3	76.7	51.1	54.2	64.1	79.4	107.2	113.8	113.3
62.5°	1025.8	849.4	356.3	69.0	48.4	54.7	63.9	84.2	123.4	121.3	115.2
65°	1004.0	817.9	303.1	60.0	45.7	55.7	63.9	94.9	107.7	105.3	102.6
67.5°	957.6	749.9	242.5	51.6	42.8	52.8	62.9	90.3	92.7	86.4	83.3
69°	905.5	685.0	191.9	47.0	41.1	51.3	62.7	87.1	91.3	84.5	80.8
70°	864.9	634.4	155.2	43.6	39.5	50.8	62.5	85.0	90.5	83.0	79.2
72.5°	720.4	512.7	81.3	35.1	33.6	46.2	60.3	83.0	90.8	79.6	74.1
75°	565.9	364.8	54.0	26.9	25.9	40.4	55.2	79.9	85.4	71.6	63.2
77.5°	349.0	159.8	37.3	18.6	18.9	31.5	47.4	71.4	86.2	72.4	61.5
80°	101.4	61.7	23.7	12.6	11.6	18.6	37.3	61.5	81.8	74.3	67.0
82.5°	58.6	40.2	16.0	8.0	7.0	8.5	23.5	47.7	72.1	68.0	69.5
85°	13.3	11.1	5.8	3.9	3.9	4.8	8.0	27.6	49.9	58.3	65.8
87.5°	1.5	1.5	1.5	1.5	1.5	1.2	1.5	7.5	21.8	31.0	36.1
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)