

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: P234031

Luminaire Tested: **VERD-C013-D-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234031
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-C013-D-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 560mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2981 lumens
Efficiency: N/A
Efficacy: 124.2 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 - G1

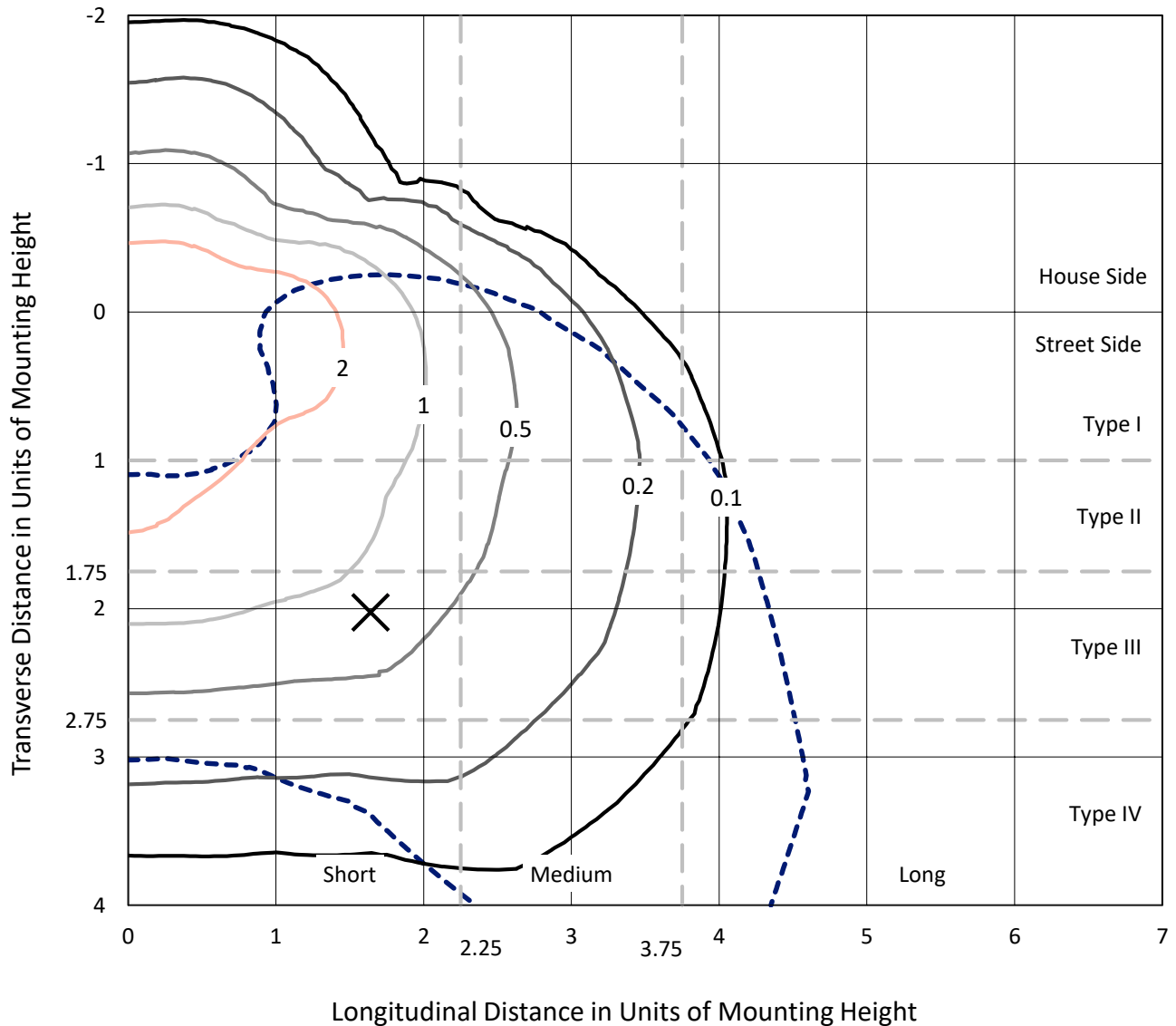
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

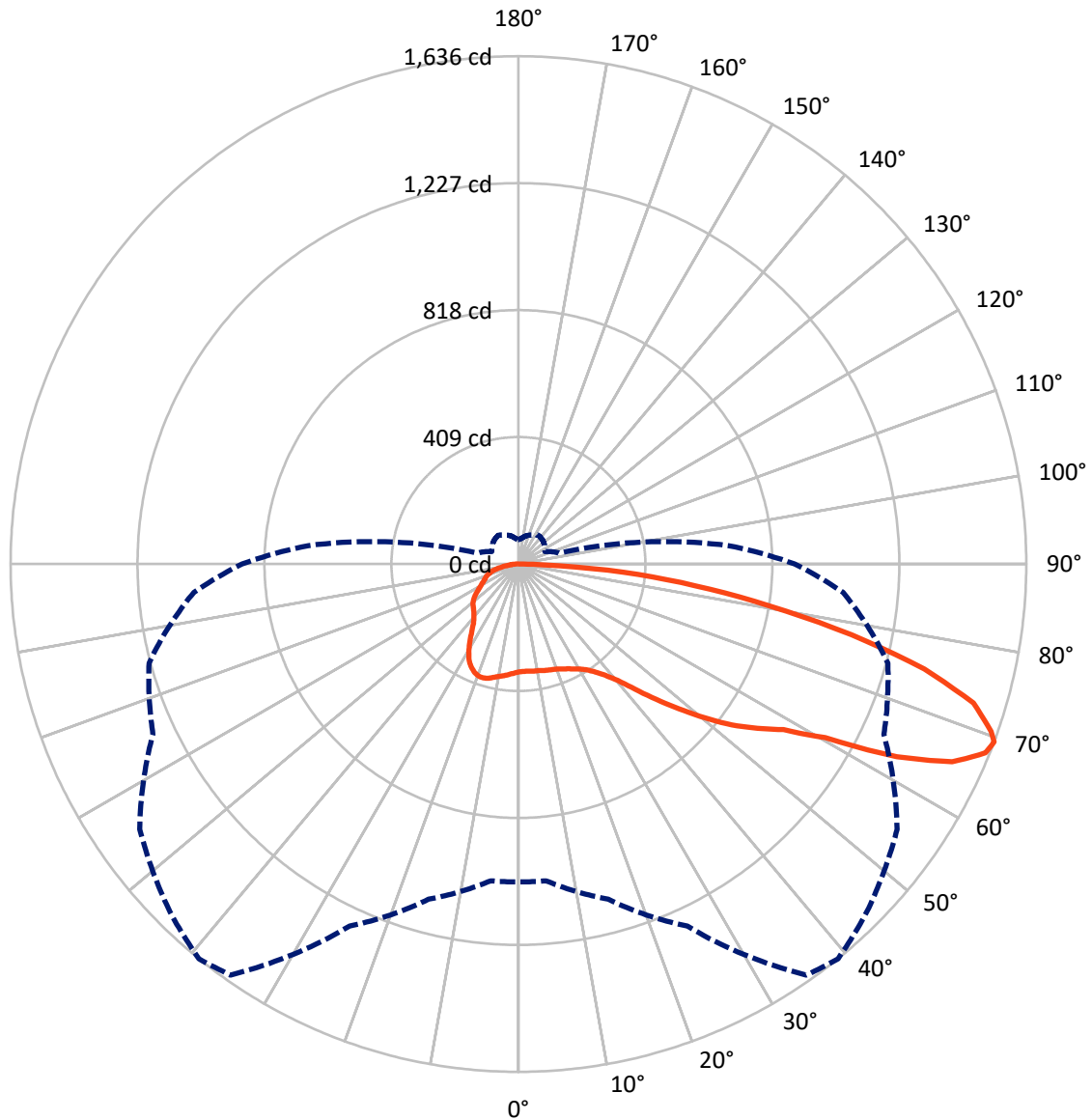
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	698.8	0.0	698.8
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	2282.2	0.0	2282.2
	% Fixture	76.6	0.0	76.6
Total	Lumens	2981.0	0.0	2981.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	1.1
10°-20°	104.3	3.5
20°-30°	175.6	5.9
30°-40°	254.4	8.5
40°-50°	411.2	13.8
50°-60°	601.9	20.2
60°-70°	753.4	25.3
70°-80°	538.6	18.1
80°-90°	108.0	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°	2981.0	100.0
0°-180°	2981.0	100.0



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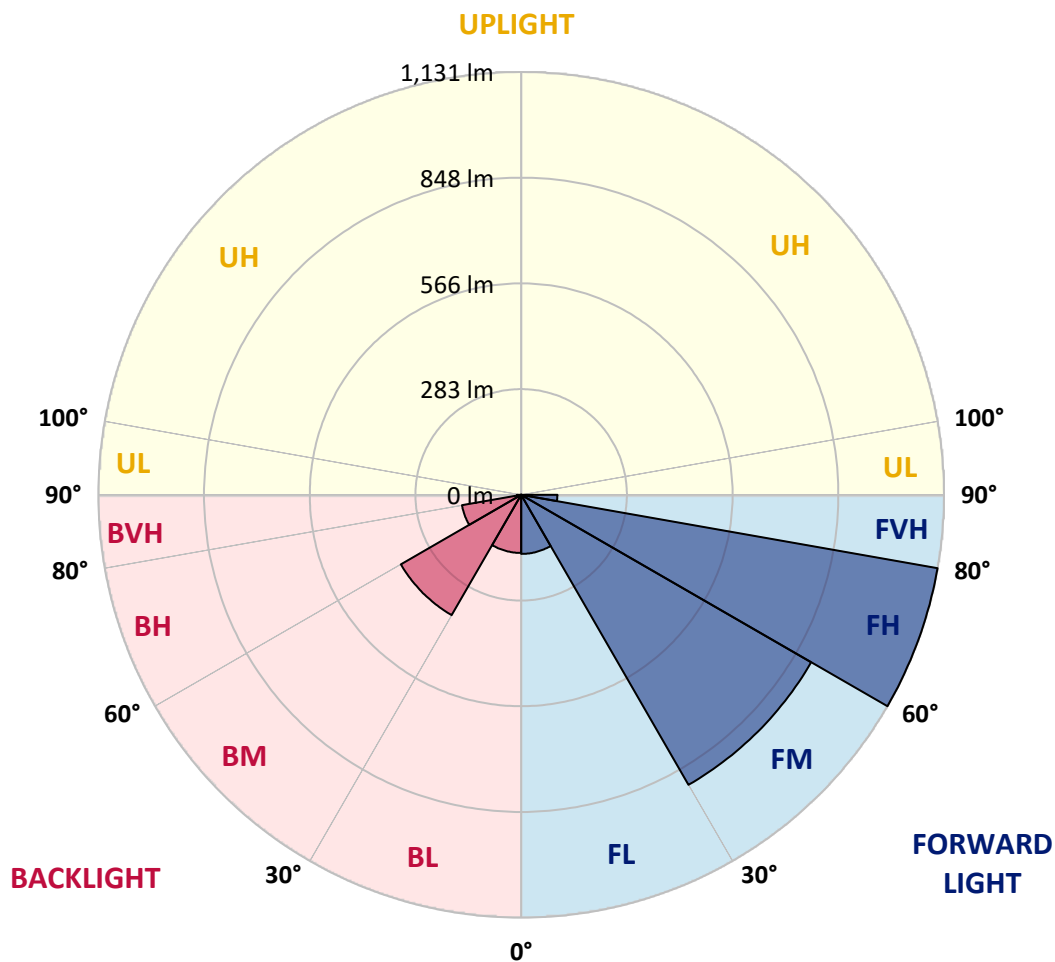
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.1	5.3			
FM	(30°-60°)	895.8	30.1			
FH	(60°-80°)	1131.3	37.9			G1/1800
FVH	(80°-90°)	96.9	3.3			G1/100
BL	(0°-30°)	155.5	5.2	B1/500		
BM	(30°-60°)	371.6	12.5	B1/1000		
BH	(60°-80°)	160.7	5.4	B1/500		G1/500
BVH	(80°-90°)	11.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2
2.5°	353.3	352.7	351.6	347.2	346.7	346.4	347.0	345.3	345.0	345.6	345.0
5°	353.5	353.0	351.6	347.8	347.2	346.7	347.0	345.6	345.9	347.2	347.2
7.5°	354.1	353.5	352.2	348.1	349.2	348.6	349.7	347.8	347.8	348.9	349.2
10°	352.7	352.4	351.6	348.6	350.3	349.2	350.3	350.5	351.6	352.4	352.2
12.5°	349.2	349.2	349.2	347.8	352.4	352.2	354.1	356.0	358.8	360.1	361.0
15°	347.0	346.7	348.6	348.3	354.1	354.9	358.2	363.2	367.3	370.9	372.0
17.5°	349.2	349.2	351.6	351.1	356.8	357.4	361.0	368.1	375.0	381.8	384.9
20°	351.6	351.9	354.9	355.7	361.2	361.0	364.5	373.3	382.7	392.8	398.0
22.5°	359.3	359.0	361.5	359.9	366.2	367.3	370.3	378.0	391.2	404.1	412.6
25°	365.1	365.9	368.4	367.3	372.5	373.9	378.8	386.2	401.9	417.3	432.4
27.5°	370.6	372.2	374.1	373.9	381.0	382.7	386.5	398.0	416.2	434.6	455.7
30°	378.8	378.3	379.6	382.1	391.5	392.6	397.2	411.2	433.2	457.1	485.4
32.5°	389.8	389.3	390.6	392.8	404.1	406.8	413.2	428.3	456.0	484.9	519.5
35°	407.1	408.5	409.6	412.3	423.3	427.2	435.7	454.9	487.1	533.2	582.7
37.5°	467.3	464.3	458.2	447.2	450.2	454.6	466.7	494.2	540.9	619.2	664.5
40°	561.2	557.7	538.7	506.6	492.0	493.1	504.9	542.3	606.0	720.3	762.0
42.5°	649.7	645.3	622.8	582.7	553.8	550.5	551.6	594.7	677.4	821.4	843.6
45°	733.2	735.4	701.1	670.3	637.3	622.2	617.5	649.7	756.8	909.0	915.9
47.5°	813.1	814.8	776.0	746.4	714.5	696.9	687.9	712.9	829.9	979.9	973.6
50°	894.7	899.1	846.1	820.8	791.4	778.8	770.0	786.5	910.7	1047.7	1028.2
52.5°	1009.8	991.4	921.9	886.2	865.3	861.5	852.4	865.9	996.4	1107.6	1067.0
55°	1137.8	1098.6	1025.5	963.1	934.3	934.3	926.3	942.0	1084.8	1152.4	1098.6
57.5°	1179.3	1183.2	1157.9	1090.0	1012.6	1006.5	998.8	1020.3	1160.6	1192.5	1110.4
60°	1251.8	1262.5	1282.1	1225.5	1187.3	1135.9	1089.2	1100.7	1226.0	1225.5	1123.0
62.5°	1287.8	1298.0	1359.0	1328.5	1364.5	1368.0	1280.7	1191.7	1274.4	1241.9	1129.0
65°	1253.8	1260.9	1342.2	1382.3	1486.7	1536.4	1493.3	1313.9	1299.9	1235.1	1106.5
67.5°	1142.0	1155.4	1222.7	1345.0	1595.8	1623.5	1583.1	1481.8	1310.9	1237.3	1088.4
69°	1024.4	1024.7	1118.1	1287.5	1617.2	1636.4	1587.0	1489.7	1299.4	1232.1	1049.7
70°	958.2	965.0	1034.3	1237.8	1609.2	1615.5	1577.6	1489.5	1291.4	1230.4	1012.8
72.5°	747.8	744.2	813.1	1035.1	1519.1	1533.1	1491.4	1447.4	1284.8	1159.5	856.8
75°	522.8	533.8	601.3	784.3	1309.0	1351.0	1351.0	1390.6	1182.6	990.9	619.5
77.5°	389.0	390.6	444.7	599.1	1053.2	1096.9	1137.0	1170.2	924.4	678.8	276.9
80°	263.4	265.9	315.4	442.0	780.4	820.5	884.0	805.2	550.0	234.9	31.6
82.5°	165.9	169.2	208.5	310.4	556.3	574.4	593.9	454.6	183.2	27.2	20.1
85°	98.6	99.2	125.8	198.3	339.3	340.4	319.5	209.3	49.2	16.2	12.6
87.5°	41.2	43.4	54.9	87.9	99.4	78.6	48.9	16.8	7.4	6.6	4.4
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°	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2	347.2
2.5°	343.4	346.4	345.9	346.7	347.8	350.0	352.4	351.3	352.7	355.7	355.7
5°	346.4	348.9	349.7	351.3	352.7	354.9	356.6	356.0	359.0	363.4	363.4
7.5°	348.9	350.8	353.5	355.5	356.8	361.2	362.9	361.8	364.0	369.2	369.5
10°	352.4	354.4	358.5	360.4	363.2	365.4	367.6	367.3	369.5	374.1	375.0
12.5°	361.2	362.6	368.4	371.1	371.1	373.9	372.2	369.5	370.6	373.3	373.9
15°	372.8	374.7	382.1	383.5	382.1	382.7	378.8	370.0	365.6	366.5	366.7
17.5°	386.0	389.3	397.8	395.9	394.2	390.1	380.2	367.0	353.8	348.9	349.7
20°	400.0	404.1	414.0	409.9	403.8	393.1	377.2	354.6	334.3	322.5	322.0
22.5°	416.2	421.4	430.7	423.6	410.1	391.5	367.0	339.5	313.7	295.3	294.2
25°	438.4	444.2	447.5	433.2	411.2	385.4	352.4	318.9	286.5	264.5	262.9
27.5°	463.7	466.7	460.1	438.7	406.0	372.5	334.3	292.8	257.1	239.0	236.5
30°	491.7	489.3	468.6	436.0	392.6	352.2	306.0	259.6	231.0	216.5	214.3
32.5°	524.1	516.4	475.2	428.3	374.7	325.5	275.3	238.4	215.6	201.1	200.0
35°	577.4	555.5	486.0	416.5	351.1	294.2	247.0	220.3	202.5	184.3	181.6
37.5°	654.6	613.1	501.6	405.5	325.5	264.0	225.5	205.8	190.1	169.8	165.9
40°	734.8	681.0	527.4	393.4	301.6	241.7	213.7	199.7	184.3	165.1	159.9
42.5°	808.2	745.6	557.7	378.3	276.6	223.9	208.0	198.1	182.7	164.5	160.4
45°	874.7	806.3	588.7	361.0	249.2	209.6	203.3	195.0	179.4	162.1	158.8
47.5°	930.7	857.9	620.0	340.9	222.8	200.8	198.3	189.5	175.0	158.2	155.5
50°	977.1	895.0	637.9	319.8	201.1	194.2	191.2	180.2	165.4	149.7	148.1
52.5°	1011.5	918.1	654.1	308.5	184.1	183.5	181.6	170.9	156.6	140.4	137.1
55°	1035.4	937.0	646.9	299.7	165.9	170.0	168.9	162.4	150.3	131.3	128.6
57.5°	1036.7	938.7	631.5	247.5	148.1	153.8	155.8	156.9	143.4	126.6	123.3
60°	1035.4	926.6	603.0	181.6	130.8	137.6	144.8	144.8	135.4	118.9	116.5
62.5°	1029.0	902.7	536.5	129.4	117.0	126.1	135.4	131.3	123.3	110.2	107.7
65°	1000.2	862.9	419.8	105.5	111.3	119.5	123.9	118.1	108.0	94.2	93.1
67.5°	947.7	771.6	242.8	96.7	106.3	113.7	117.3	108.5	98.9	85.7	85.2
69°	890.0	679.3	136.8	94.5	103.3	109.9	112.9	103.3	93.9	81.3	78.8
70°	838.4	596.9	89.0	92.6	100.3	107.4	109.6	99.7	90.9	78.0	76.4
72.5°	635.1	359.6	59.9	84.6	92.0	97.5	100.8	91.5	81.6	68.7	65.4
75°	347.0	97.8	52.7	72.5	81.9	89.3	90.1	78.3	64.0	50.8	49.4
77.5°	67.6	33.5	45.3	59.9	65.1	73.9	73.3	65.4	55.5	43.1	41.5
80°	25.5	24.2	37.9	42.9	45.9	55.2	58.5	52.7	46.2	29.4	25.3
82.5°	17.3	17.9	28.3	25.3	28.0	32.7	41.2	40.1	36.5	20.1	17.9
85°	12.1	14.0	15.7	10.7	13.7	20.6	27.2	26.4	22.5	14.0	12.6
87.5°	3.6	3.8	4.4	5.5	8.5	15.4	22.3	18.4	12.4	10.4	9.1
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)