

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: P234022

Luminaire Tested: **VERD-C013-D-U-T2-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234022  
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-T2-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 560mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2945 lumens  
Efficiency: N/A  
Efficacy: 122.7 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

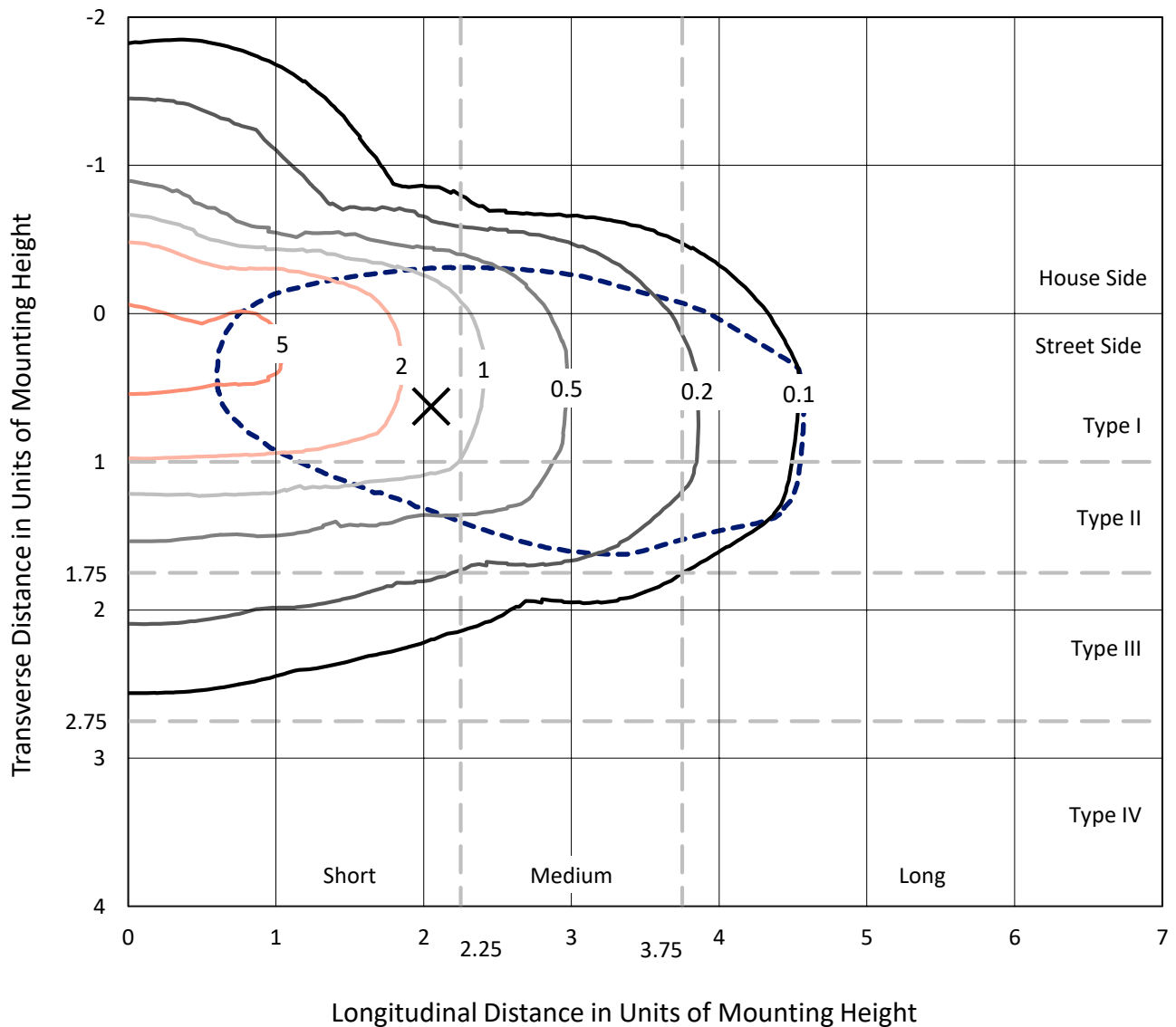


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

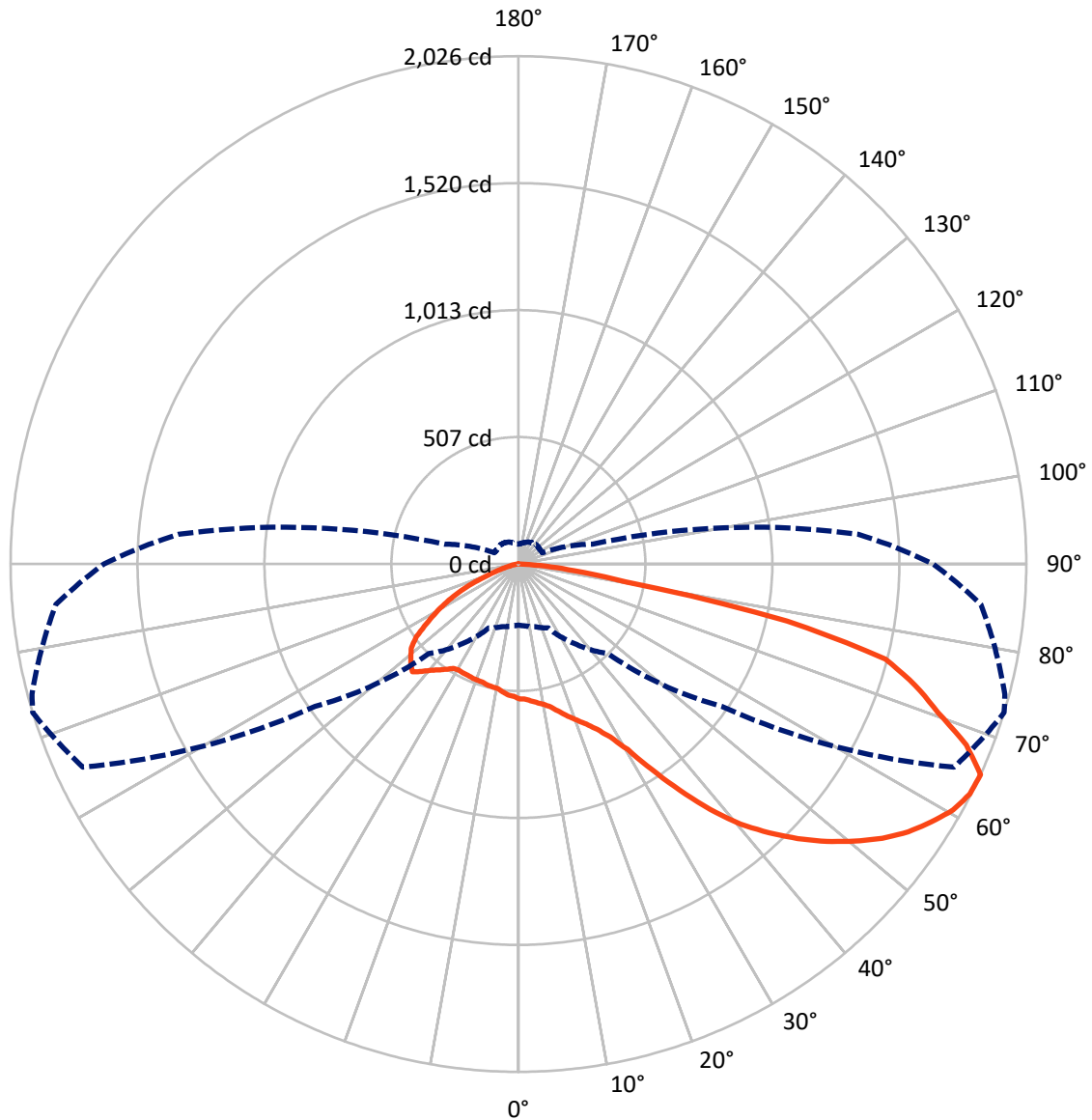


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	754.9	0.0	754.9
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	2190.1	0.0	2190.1
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	2945.0	0.0	2945.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.4	1.7
10°-20°	155.4	5.3
20°-30°	260.6	8.8
30°-40°	382.2	13.0
40°-50°	516.6	17.5
50°-60°	598.4	20.3
60°-70°	584.5	19.8
70°-80°	351.0	11.9
80°-90°	45.0	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°	2945.0	100.0
0°-180°	2945.0	100.0



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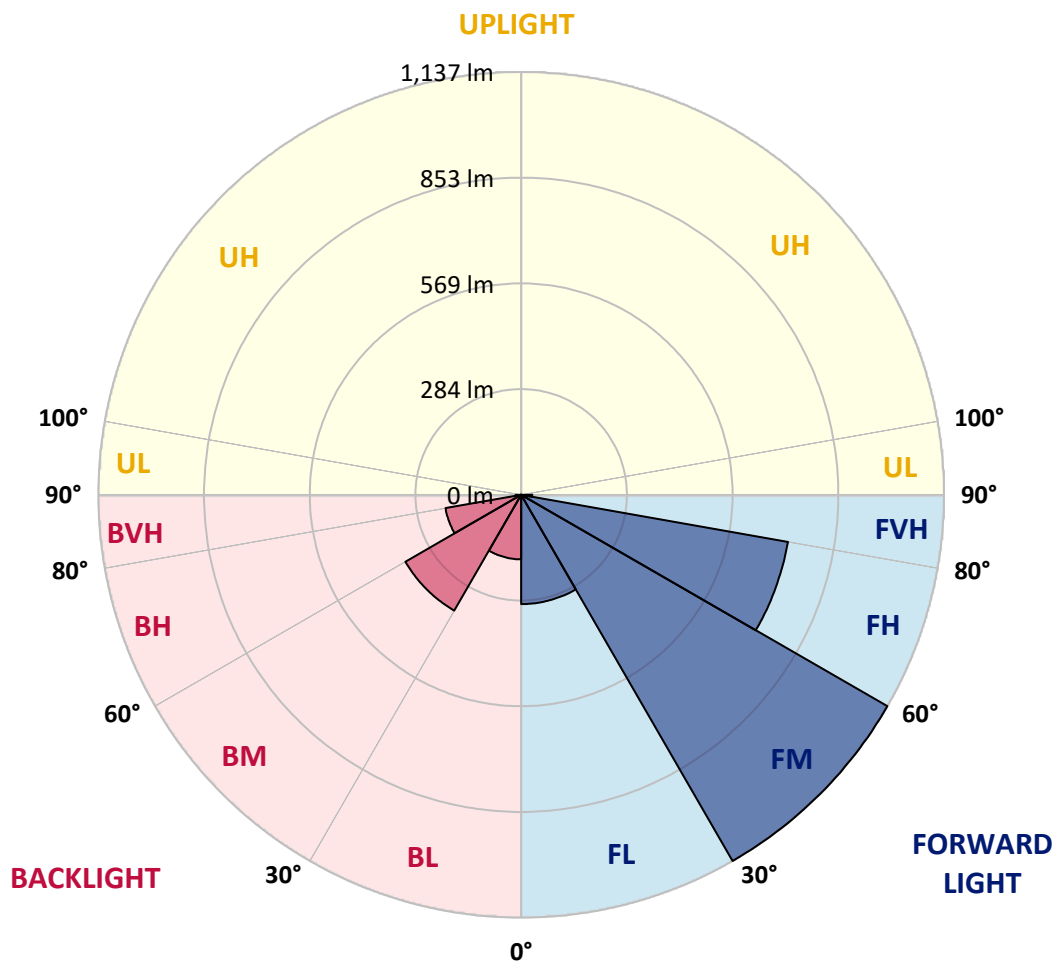
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.9	10.0			
FM (30°-60°)	1137.5	38.6			
FH (60°-80°)	728.8	24.7			G1/1800
FVH (80°-90°)	29.9	1.0			G1/100
BL (0°-30°)	173.5	5.9	B1/500		
BM (30°-60°)	359.7	12.2	B1/1000		
BH (60°-80°)	206.7	7.0	B1/500		G1/500
BVH (80°-90°)	15.0	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°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	571.6	573.8	571.4	564.4	561.0	558.5	551.3	544.9	539.8	539.3	534.5
5°	593.6	596.8	592.8	583.9	580.5	575.4	567.4	558.5	549.5	547.6	538.0
7.5°	621.4	621.9	619.8	610.9	603.7	593.0	579.1	569.8	559.3	556.4	541.2
10°	644.9	644.6	642.0	633.4	626.2	616.8	597.3	582.1	569.8	566.0	544.9
12.5°	667.4	666.8	664.2	655.3	646.2	638.5	623.8	603.2	586.6	581.8	555.6
15°	695.2	693.8	689.6	677.8	670.6	661.5	650.8	630.2	611.2	604.5	571.1
17.5°	716.6	716.3	713.1	703.2	694.6	684.7	674.9	658.8	638.2	630.7	586.4
20°	728.9	727.8	727.0	719.2	717.1	711.7	697.6	685.3	664.7	656.9	603.5
22.5°	742.0	742.2	742.5	738.5	744.6	740.1	729.7	714.7	693.8	685.0	627.5
25°	744.9	745.4	750.8	759.6	767.1	775.4	767.9	753.2	730.7	721.4	660.4
27.5°	736.6	738.8	754.8	769.8	796.2	806.9	805.6	804.8	781.8	772.4	705.6
30°	744.1	744.1	755.1	780.7	814.2	842.2	848.4	865.5	858.5	851.9	781.5
32.5°	721.6	725.7	745.2	781.0	833.9	874.8	902.7	950.2	977.8	972.2	889.0
35°	679.4	684.7	713.4	768.2	843.8	913.3	963.1	1054.8	1108.0	1114.7	1018.4
37.5°	646.8	651.3	687.2	748.1	847.6	949.4	1032.9	1172.4	1241.2	1237.7	1128.1
40°	606.9	615.0	651.1	724.3	838.8	980.2	1108.5	1280.5	1364.9	1348.9	1232.3
42.5°	571.1	578.1	608.3	686.3	826.5	997.6	1177.0	1391.7	1465.7	1452.9	1331.0
45°	533.1	539.3	567.4	640.9	797.8	1006.1	1241.2	1498.1	1562.5	1548.1	1422.4
47.5°	489.6	497.9	531.3	598.1	755.9	1000.8	1287.9	1590.6	1654.5	1643.8	1498.1
50°	379.7	388.2	475.7	558.0	697.6	978.6	1329.9	1683.1	1737.7	1727.5	1564.9
52.5°	344.6	348.4	375.7	512.0	636.9	934.7	1356.1	1759.3	1818.7	1808.5	1628.0
55°	323.3	325.9	341.2	418.2	585.3	864.2	1359.3	1838.5	1886.9	1873.5	1695.2
57.5°	301.3	304.3	321.1	360.7	533.4	753.7	1325.4	1905.6	1942.2	1927.8	1759.3
60°	282.9	284.5	301.1	328.3	474.9	644.1	1237.9	1951.3	1993.3	1974.6	1822.2
62.5°	266.0	268.2	280.2	305.1	425.7	562.0	1116.0	1951.6	2021.3	2009.9	1854.0
65°	244.1	247.3	259.1	281.5	385.8	505.9	989.8	1917.6	2026.4	2009.3	1852.4
67.5°	218.7	222.7	233.4	251.3	332.9	446.0	813.9	1873.0	1927.2	1924.3	1775.9
70°	193.3	193.3	205.3	219.8	276.2	381.8	643.0	1713.9	1775.9	1780.4	1638.7
72.5°	163.1	163.6	173.0	185.6	222.5	313.4	468.4	1465.2	1655.6	1600.5	1478.0
75°	136.9	136.4	146.0	156.4	181.0	246.8	305.6	1076.4	1513.1	1525.4	1300.8
77.5°	72.7	70.1	82.4	90.6	106.1	137.2	169.5	539.8	1095.7	1119.8	1041.4
80°	20.6	20.9	54.5	61.0	69.8	67.9	78.6	205.9	433.4	488.5	607.2
82.5°	12.3	14.2	31.0	36.4	27.3	17.6	29.9	114.4	224.3	251.3	301.3
85°	6.4	7.0	11.0	13.6	10.4	8.8	9.1	48.1	109.1	111.0	120.3
87.5°	2.9	2.9	4.0	4.3	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5
2.5°	530.7	533.4	528.9	525.4	522.7	521.1	519.2	514.7	516.0	517.9	517.6
5°	533.4	534.7	526.7	515.8	505.6	498.4	493.6	486.4	486.4	489.3	489.3
7.5°	535.8	533.9	517.6	499.2	487.7	481.8	474.1	466.3	465.0	467.1	467.4
10°	537.2	529.1	506.4	489.3	474.3	462.3	452.4	443.6	443.3	446.2	446.8
12.5°	543.0	527.5	505.6	482.1	459.6	446.8	435.0	425.1	421.6	421.9	422.5
15°	552.1	533.9	504.5	472.2	447.9	430.7	413.6	401.1	397.9	402.1	403.7
17.5°	563.1	544.4	499.5	463.1	433.4	412.8	395.7	384.5	374.3	369.8	369.0
20°	577.5	553.2	502.1	449.7	419.5	392.0	370.6	356.9	348.4	347.9	347.3
22.5°	596.5	563.1	502.7	440.9	397.6	369.0	342.5	334.8	319.5	313.9	316.3
25°	621.6	578.1	501.3	431.5	380.7	342.2	310.4	296.3	290.6	284.2	284.8
27.5°	654.0	601.9	504.8	419.2	353.2	309.6	274.1	258.8	250.3	244.9	245.7
30°	719.8	638.0	504.5	407.5	327.8	275.9	235.8	225.7	217.1	212.3	214.7
32.5°	813.4	716.3	515.8	391.7	298.9	230.7	203.7	192.2	185.0	179.7	181.0
35°	929.1	801.6	544.6	370.3	266.0	196.3	177.8	163.6	154.8	152.7	151.9
37.5°	1036.6	877.0	571.9	356.1	228.3	177.3	154.0	139.8	132.1	134.8	134.8
40°	1132.6	977.0	602.7	333.4	194.1	155.6	127.5	121.1	117.1	121.7	123.3
42.5°	1205.1	1073.0	644.4	303.5	166.3	129.9	109.1	113.6	115.2	118.4	117.6
45°	1294.9	1127.8	685.5	275.7	142.0	108.3	105.3	114.7	118.4	121.4	120.1
47.5°	1377.5	1170.3	677.3	224.3	119.5	104.8	107.2	114.7	121.1	125.9	125.1
50°	1448.6	1223.5	661.5	174.3	114.7	108.0	109.1	111.8	121.4	124.6	124.6
52.5°	1493.0	1276.2	642.0	140.9	118.2	112.0	110.2	109.9	116.3	118.7	116.6
55°	1546.5	1330.7	591.4	130.7	119.5	114.7	113.1	110.7	112.6	110.7	111.8
57.5°	1605.8	1384.5	513.9	127.8	118.7	113.9	122.5	109.6	108.6	101.9	100.3
60°	1658.0	1405.6	446.0	121.1	114.4	111.8	113.9	108.3	102.9	94.1	90.6
62.5°	1677.5	1403.7	377.0	114.2	108.0	108.6	108.3	104.3	99.5	90.6	88.5
65°	1654.0	1360.9	305.6	105.9	102.9	105.1	102.4	96.5	88.5	81.3	79.4
67.5°	1574.3	1251.8	227.0	94.9	94.7	98.7	96.8	88.8	79.9	74.3	74.3
70°	1421.9	1117.6	147.1	78.9	84.8	91.7	91.7	83.2	71.7	66.8	68.2
72.5°	1255.1	961.7	95.2	58.6	66.8	83.2	82.6	76.7	66.0	59.9	60.2
75°	1087.1	763.1	61.5	40.4	43.3	70.9	73.3	62.6	51.3	43.8	42.5
77.5°	826.5	574.1	39.0	23.5	27.5	43.3	55.6	52.1	52.4	63.9	63.4
80°	508.3	346.0	28.3	11.5	13.6	28.3	44.9	49.7	69.8	46.0	42.2
82.5°	254.5	161.8	15.0	7.0	7.8	12.6	26.7	59.6	50.8	30.5	28.9
85°	95.2	43.6	4.5	3.5	4.3	6.4	11.0	54.5	32.4	24.3	23.8
87.5°	0.5	0.8	0.8	1.1	1.6	1.9	4.0	25.9	16.3	11.8	11.2
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)