

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: P234045

Luminaire Tested: **VERD-C013-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)  
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-T4-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 560mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2718 lumens  
Efficiency: N/A  
Efficacy: 113.2 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

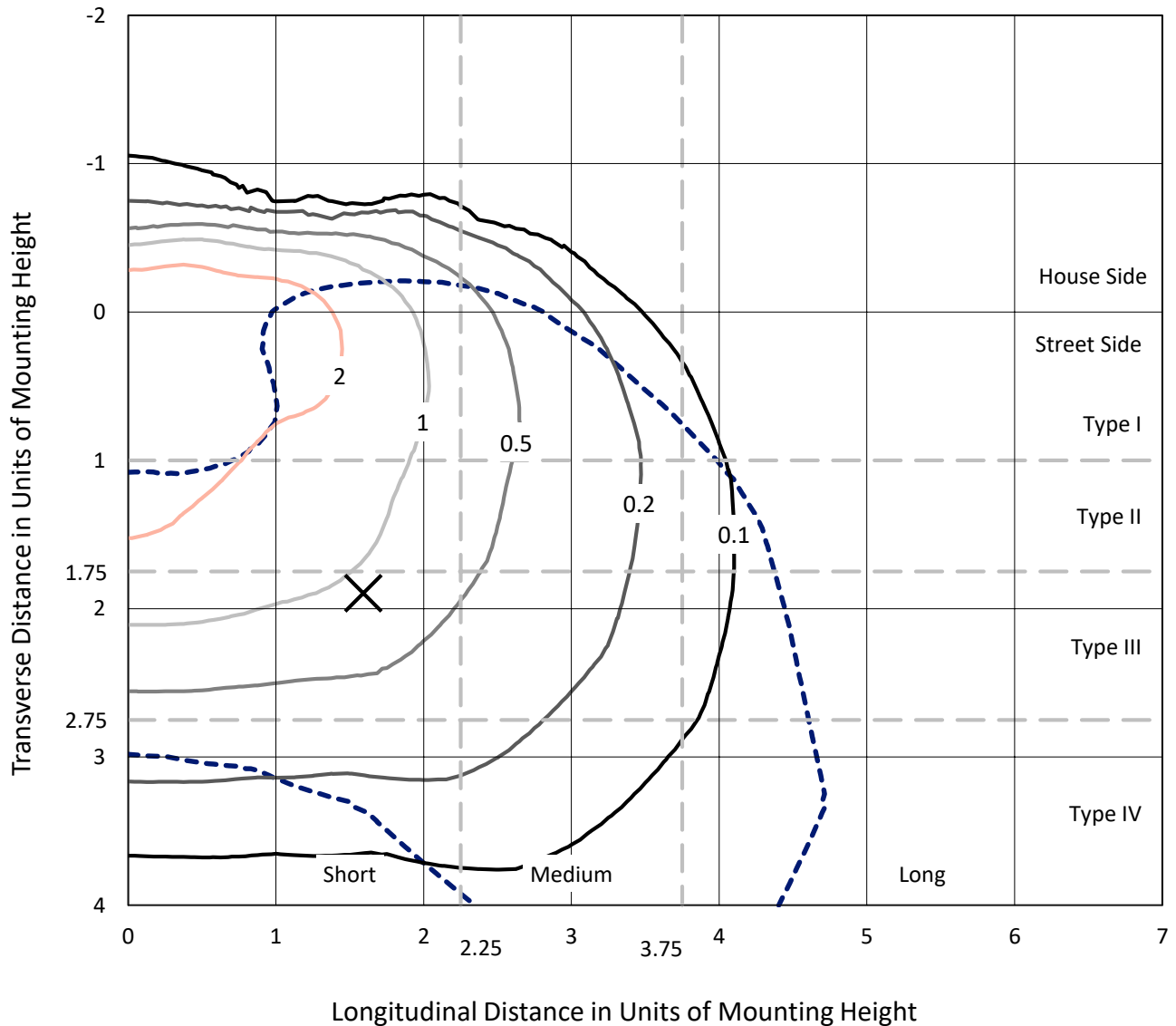
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

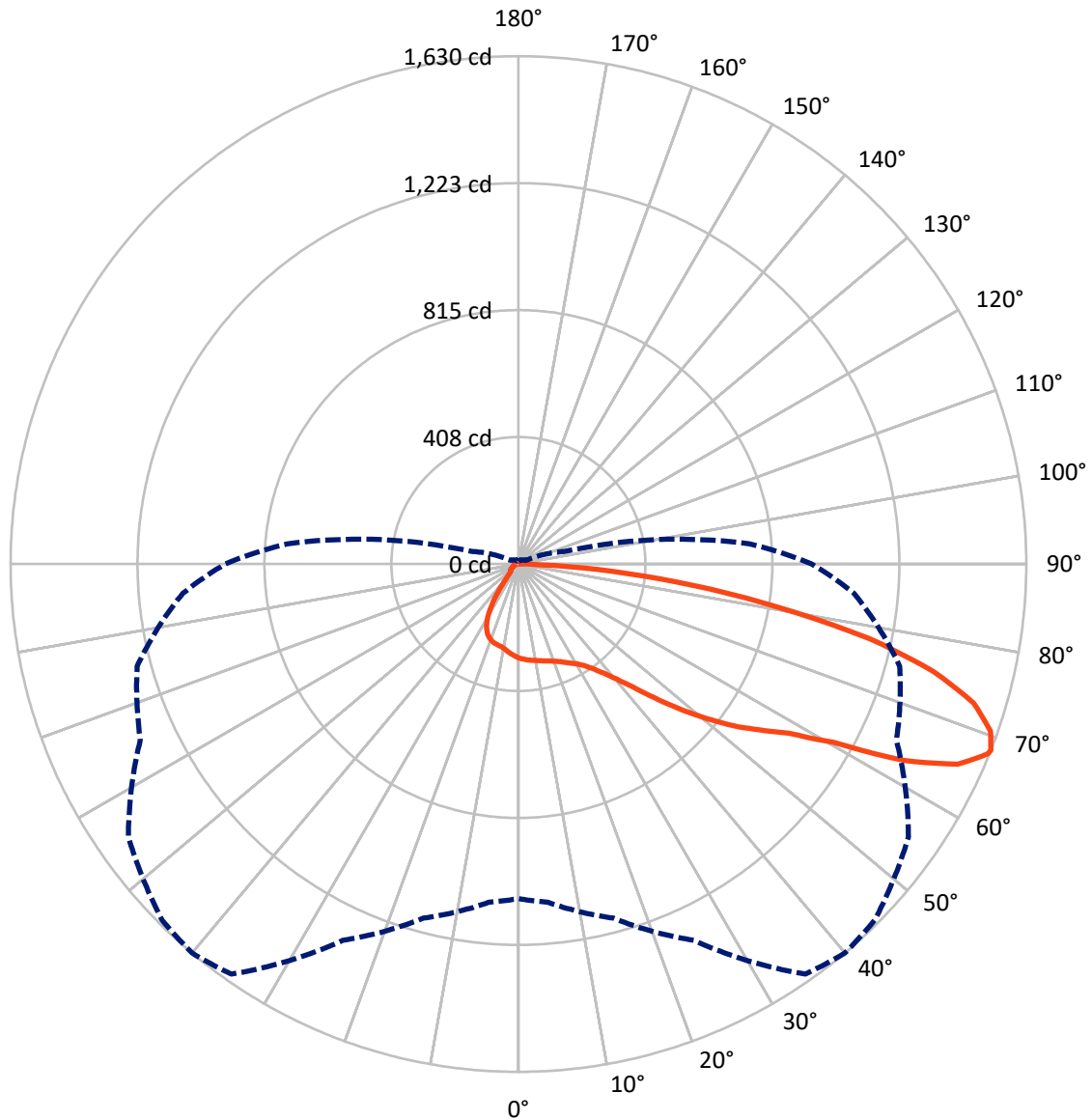
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	440.9	0.0	440.9
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	2277.1	0.0	2277.1
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	2718.0	0.0	2718.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.7	1.1
10°-20°	85.8	3.2
20°-30°	144.0	5.3
30°-40°	213.3	7.8
40°-50°	360.9	13.3
50°-60°	550.8	20.3
60°-70°	721.2	26.5
70°-80°	518.5	19.1
80°-90°	94.9	3.5
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°	2718.0	100.0
0°-180°	2718.0	100.0

**Coefficient of Utilization**



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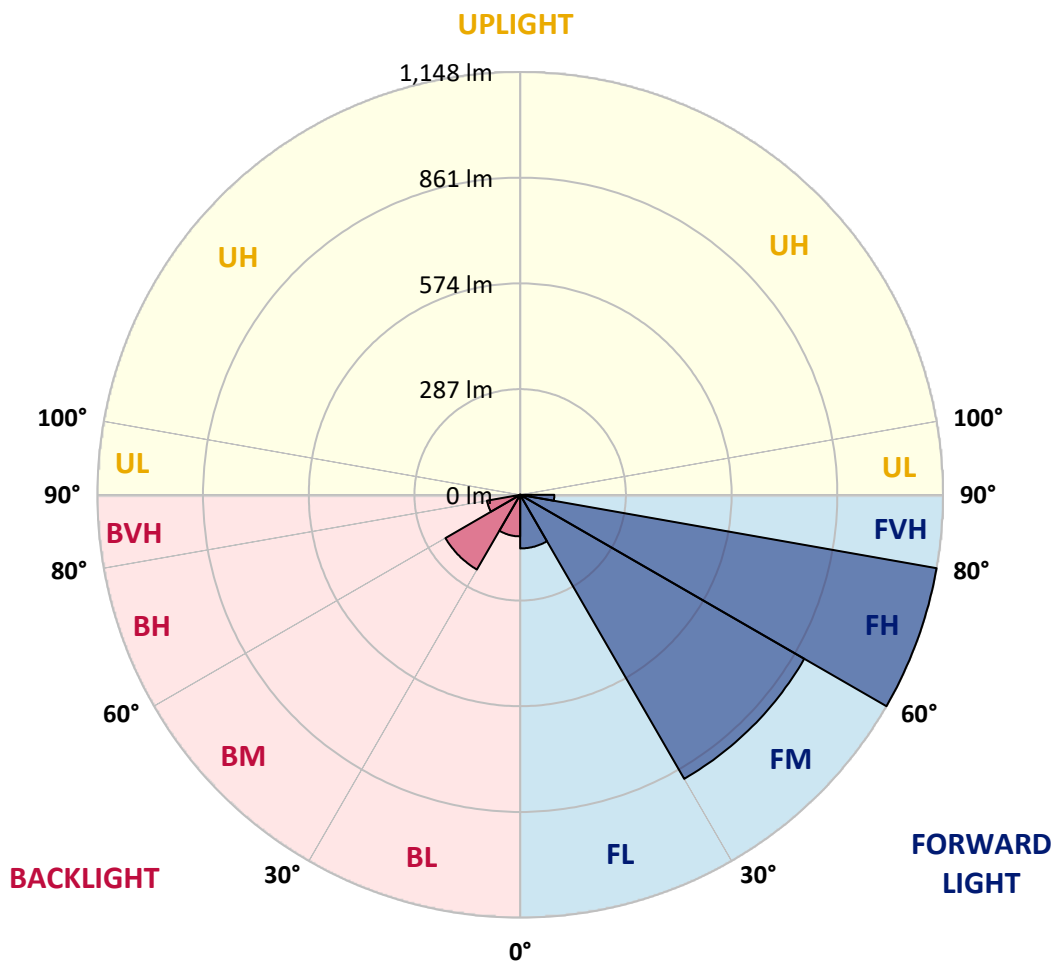
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	145.7	5.4			
FM	(30°-60°)	890.6	32.8			
FH	(60°-80°)	1148.1	42.2			G1/1800
FVH	(80°-90°)	92.7	3.4			G1/100
BL	(0°-30°)	112.8	4.2	B1/500		
BM	(30°-60°)	234.4	8.6	B1/1000		
BH	(60°-80°)	91.5	3.4	B0/110		G0/110
BVH	(80°-90°)	2.3	0.1			G0/10
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°	40°	45°	55°	65°	75°	85°
0°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	311.6	312.3	311.4	309.1	306.6	305.2	305.0	304.8	303.6	302.0	299.7
5°	314.8	315.0	314.1	312.3	310.0	309.5	308.9	309.1	308.4	306.8	304.3
7.5°	316.1	316.6	315.5	313.6	311.8	311.8	311.6	312.3	311.8	311.1	308.2
10°	315.7	316.4	315.7	315.0	314.3	315.0	314.5	316.1	316.4	316.4	312.9
12.5°	315.0	315.9	316.1	316.8	318.0	318.6	319.5	323.0	324.6	325.7	323.0
15°	315.7	316.1	318.0	319.1	321.4	323.0	325.0	330.7	333.4	336.6	335.3
17.5°	318.6	319.8	322.5	323.6	325.9	327.1	329.6	336.6	342.1	347.8	348.7
20°	325.0	325.7	330.2	330.7	331.8	333.0	335.7	343.4	351.6	359.8	362.1
22.5°	332.1	333.7	338.0	337.3	339.6	340.0	342.5	351.0	362.3	372.4	377.4
25°	339.3	340.7	345.0	345.5	348.2	350.0	353.0	361.2	375.8	388.5	397.4
27.5°	345.5	348.2	352.3	352.8	358.0	360.3	364.6	373.9	391.5	407.2	421.7
30°	356.9	357.6	361.4	362.8	369.8	371.9	376.9	388.7	410.1	429.7	452.5
32.5°	371.0	370.8	374.4	376.7	385.3	389.0	395.3	409.0	432.7	457.0	489.3
35°	396.9	394.7	396.9	399.2	409.2	413.1	419.9	440.4	468.2	509.6	549.4
37.5°	456.6	453.1	448.4	437.0	439.5	444.5	454.5	482.3	523.2	600.2	638.6
40°	559.9	552.4	532.4	502.3	484.6	485.0	494.3	530.8	590.8	704.0	732.9
42.5°	653.4	648.2	624.1	582.9	541.9	539.6	542.8	585.4	664.6	800.2	815.3
45°	741.5	744.0	709.0	676.6	627.7	612.7	608.8	643.6	746.3	886.0	887.4
47.5°	823.0	827.1	784.8	754.3	706.0	693.0	681.0	704.9	823.4	959.1	947.9
50°	910.6	913.8	855.1	830.0	789.5	777.5	768.4	778.8	902.4	1026.9	1001.9
52.5°	1031.7	1013.9	940.2	898.8	862.8	861.9	854.9	861.5	992.3	1087.9	1042.9
55°	1174.6	1128.2	1049.9	983.7	937.5	940.0	931.6	942.5	1081.3	1140.3	1080.9
57.5°	1225.2	1224.0	1187.6	1124.1	1030.3	1024.6	1010.1	1022.4	1158.2	1189.2	1107.7
60°	1295.3	1301.4	1305.5	1267.3	1213.1	1161.4	1112.7	1111.6	1229.9	1233.8	1120.9
62.5°	1340.6	1346.2	1378.1	1373.1	1406.6	1389.5	1334.0	1210.8	1284.8	1262.7	1125.9
65°	1255.9	1270.0	1350.3	1411.6	1525.6	1549.5	1541.5	1363.3	1322.1	1271.1	1116.6
67.5°	1102.7	1121.1	1209.2	1352.4	1599.3	1626.0	1611.4	1516.9	1338.3	1267.5	1090.9
68°	1074.0	1090.0	1176.5	1332.6	1606.8	1630.1	1616.9	1528.3	1339.0	1267.0	1081.1
70°	936.1	949.1	1033.5	1231.1	1585.9	1607.5	1605.7	1539.0	1333.0	1252.9	1015.3
72.5°	726.3	739.2	814.1	1021.0	1489.2	1528.8	1527.2	1496.2	1322.1	1181.0	851.2
75°	525.1	539.4	607.7	784.5	1288.7	1375.8	1393.4	1422.9	1208.5	993.9	605.6
77.5°	379.2	389.6	448.6	592.7	1052.6	1152.3	1187.8	1217.6	989.1	724.4	288.1
80°	252.9	260.4	317.3	440.6	793.0	851.7	889.9	840.1	562.8	262.0	31.2
82.5°	155.7	160.5	205.3	309.1	548.5	566.9	567.2	448.1	181.4	25.0	16.8
85°	83.5	85.1	111.5	168.6	289.7	303.6	298.2	188.2	36.6	13.4	9.1
87.5°	13.4	14.6	35.1	63.3	89.4	69.0	44.2	13.9	3.6	2.0	1.4
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°	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0	302.0
2.5°	300.9	300.2	298.4	297.5	295.2	295.9	295.9	294.1	295.0	298.6	298.2
5°	303.6	303.8	299.5	297.2	292.2	290.9	288.8	286.1	285.9	288.4	288.6
7.5°	305.9	307.0	300.9	296.3	289.5	284.7	280.6	275.8	274.7	276.3	276.3
10°	309.5	310.7	302.9	296.6	286.5	278.8	271.8	265.6	263.1	263.1	263.3
12.5°	319.1	318.4	309.5	299.7	287.9	275.6	264.5	256.3	250.4	250.1	249.2
15°	332.3	329.8	321.1	306.3	291.1	275.4	259.9	247.2	236.9	234.2	233.1
17.5°	346.4	343.2	332.7	314.8	296.1	275.2	254.7	236.9	219.9	213.3	211.2
20°	361.7	357.8	347.1	324.6	301.1	273.6	246.9	222.1	198.9	186.4	183.2
22.5°	378.5	375.3	362.3	334.6	304.5	270.2	234.9	203.5	173.9	155.9	154.5
25°	400.3	397.4	378.3	343.4	304.8	263.8	218.9	179.6	142.5	121.3	117.0
27.5°	426.5	421.3	391.0	348.9	301.1	252.6	198.2	147.7	105.8	88.1	87.6
30°	455.0	445.4	401.3	350.3	292.9	234.9	169.8	108.6	75.1	63.0	63.0
32.5°	488.4	470.9	411.7	348.0	279.5	210.3	130.0	75.3	51.7	46.0	46.0
35°	537.4	510.3	425.2	342.3	260.6	176.4	92.4	49.8	40.7	40.1	40.1
37.5°	614.7	569.7	443.4	332.7	234.7	134.5	60.1	38.5	38.9	38.9	38.7
40°	697.1	638.4	468.4	317.5	202.1	92.9	39.4	36.4	37.1	37.6	37.3
42.5°	771.6	703.7	495.7	297.0	163.6	58.5	36.0	35.1	34.6	35.1	35.3
45°	836.0	760.4	523.2	270.4	120.9	38.2	35.1	33.0	31.6	31.9	32.1
47.5°	891.0	805.0	541.9	242.4	80.1	33.9	33.9	30.3	28.9	28.9	28.9
50°	939.3	844.6	553.3	208.9	47.8	33.5	31.9	27.8	26.4	26.2	26.4
52.5°	974.3	872.4	551.9	168.2	32.1	32.3	29.1	25.5	23.9	24.4	24.6
55°	1002.1	889.9	539.9	123.1	30.0	30.3	27.1	23.0	21.8	22.1	22.1
57.5°	1019.6	894.2	515.3	80.1	29.4	27.1	24.4	20.5	19.1	19.1	19.1
60°	1025.3	892.0	481.8	51.2	29.1	24.4	22.1	18.4	17.1	17.1	17.1
62.5°	1020.5	878.8	425.2	36.9	27.1	22.8	20.0	16.4	15.0	14.6	14.6
65°	1003.5	843.5	327.7	30.5	24.4	20.9	18.2	14.8	13.0	12.3	12.1
67.5°	953.6	767.0	190.7	28.7	22.1	19.1	16.8	13.4	11.4	10.2	10.0
68°	940.7	744.2	156.8	28.4	22.1	18.9	16.6	13.0	10.9	9.8	9.6
70°	847.8	600.4	45.1	27.1	21.6	18.2	15.2	11.8	9.8	8.4	8.2
72.5°	638.4	351.9	28.2	24.1	21.4	16.2	14.8	11.8	8.6	7.3	6.8
75°	356.4	80.1	23.9	18.0	20.0	15.9	14.6	10.7	7.7	5.9	5.7
77.5°	73.3	23.2	20.5	12.5	15.2	13.9	12.3	9.1	7.1	4.6	4.3
80°	20.7	17.3	18.2	9.1	8.6	9.8	9.1	8.0	5.2	3.4	3.4
82.5°	13.4	12.7	16.4	6.1	4.6	4.6	5.9	4.8	4.6	2.7	2.7
85°	8.2	10.7	8.0	2.7	2.3	1.8	2.0	2.0	2.7	1.8	1.8
87.5°	1.1	1.1	1.1	1.1	1.1	0.9	0.7	0.7	0.7	0.9	0.9
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)