

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: P234042

Luminaire Tested: **VERD-C013-D-U-T3-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234042  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)  
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-T3-7030-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 560mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2715 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

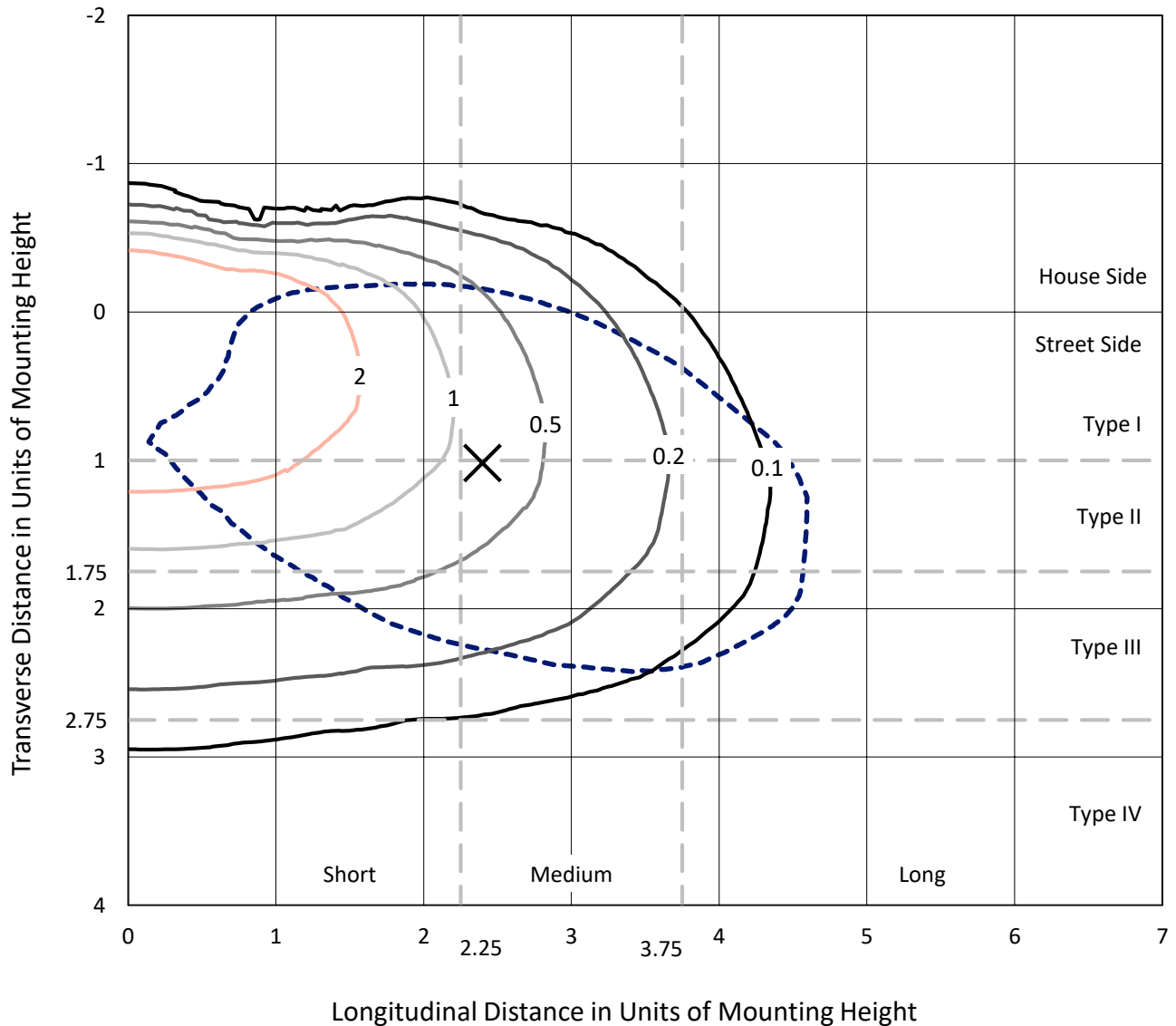
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

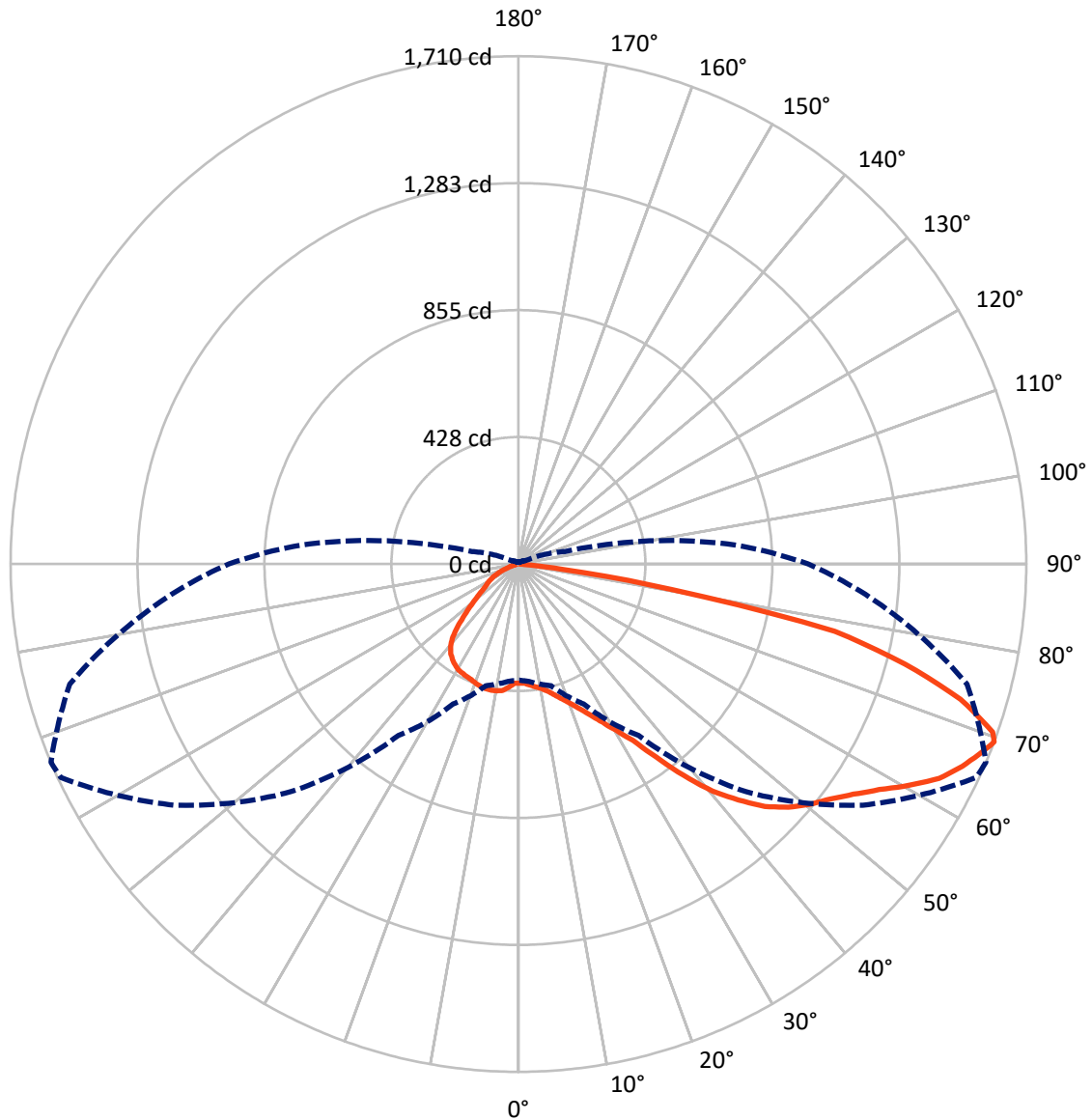
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	489.4	0.0	489.4
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	2225.6	0.0	2225.6
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	2715.0	0.0	2715.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.5	1.5
10°-20°	127.5	4.7
20°-30°	217.5	8.0
30°-40°	328.9	12.1
40°-50°	464.7	17.1
50°-60°	561.6	20.7
60°-70°	592.6	21.8
70°-80°	356.7	13.1
80°-90°	24.9	0.9
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°	2715.0	100.0
0°-180°	2715.0	100.0

**Coefficient of Utilization**



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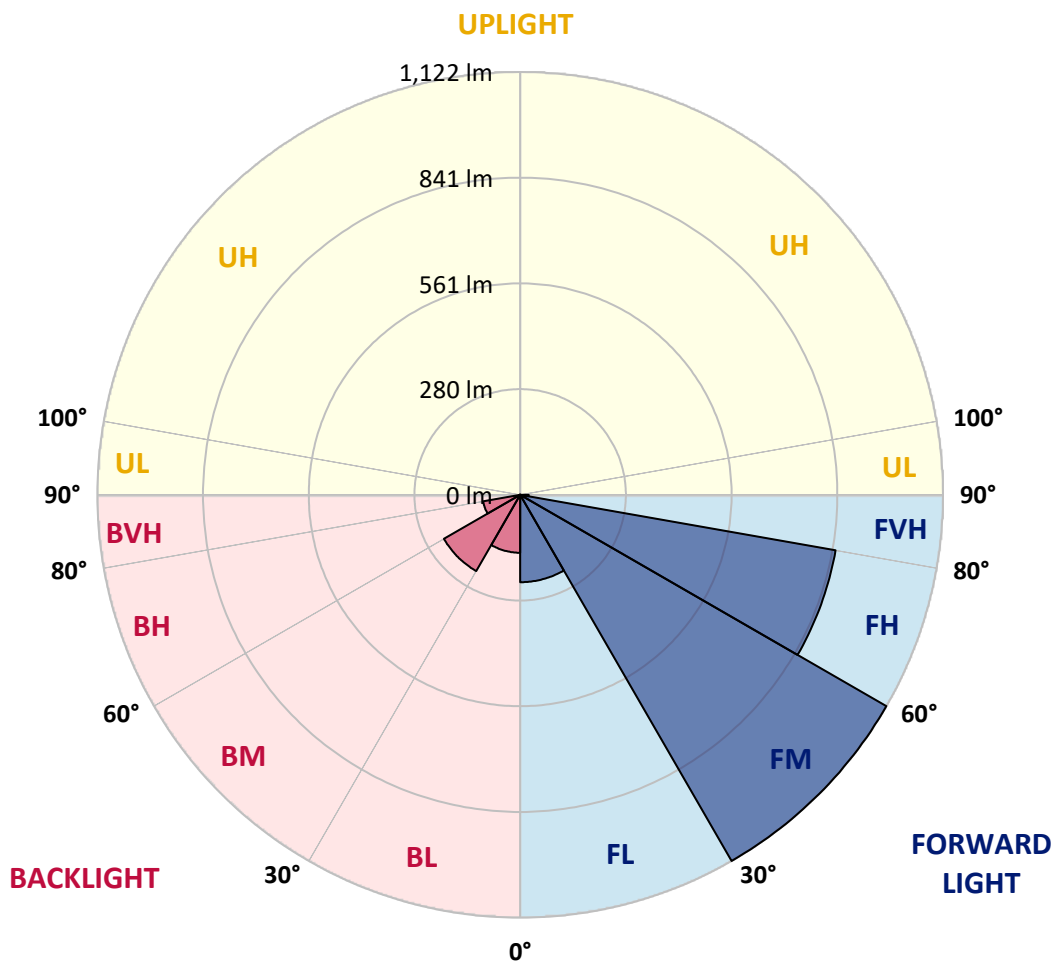
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.8	8.5			
FM	(30°-60°)	1121.7	41.3			
FH	(60°-80°)	849.5	31.3			G1/1800
FVH	(80°-90°)	22.5	0.8			G1/100
BL	(0°-30°)	153.7	5.7	B1/500		
BM	(30°-60°)	233.5	8.6	B1/1000		
BH	(60°-80°)	99.8	3.7	B0/110		G0/110
BVH	(80°-90°)	2.4	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5
2.5°	411.9	411.2	411.2	407.6	404.1	403.2	403.0	401.9	402.2	400.6	399.1
5°	423.8	423.8	423.4	418.6	414.9	412.5	411.0	409.1	409.3	408.2	406.9
7.5°	441.7	442.0	441.1	434.8	431.1	425.3	421.8	418.2	417.9	416.7	417.1
10°	463.8	464.5	463.2	455.2	448.9	440.9	433.5	427.0	426.6	425.1	426.4
12.5°	488.7	489.6	486.3	478.1	470.9	458.4	449.5	440.9	439.6	439.4	440.2
15°	517.2	517.7	516.6	504.5	495.8	484.4	469.9	458.8	457.5	457.8	456.7
17.5°	549.0	550.1	547.7	536.9	525.5	509.7	492.4	478.7	478.1	477.4	472.7
20°	582.8	583.9	582.4	572.2	558.6	538.7	517.5	501.9	501.7	500.2	489.1
22.5°	620.9	622.4	621.5	609.2	594.7	573.1	546.7	530.4	530.0	525.2	508.6
25°	662.2	661.8	662.6	649.4	635.8	613.1	580.4	563.5	563.5	557.7	533.0
27.5°	702.2	702.0	703.5	694.2	679.9	658.5	619.1	602.0	603.6	595.1	562.5
30°	741.1	741.1	744.8	738.8	728.2	705.7	667.2	649.2	651.2	642.3	599.7
32.5°	777.5	779.2	785.5	781.8	773.8	753.5	720.6	704.2	708.7	712.4	668.9
35°	804.3	806.0	820.5	821.8	819.9	806.3	781.8	792.4	797.8	826.8	778.4
37.5°	827.9	830.1	847.4	858.2	864.5	856.0	857.5	893.0	903.2	937.4	871.8
40°	845.2	850.0	867.0	882.0	904.0	914.0	938.7	989.1	1005.5	1019.1	936.1
42.5°	833.3	836.5	866.6	906.6	938.9	973.9	1013.9	1073.9	1086.2	1081.9	992.7
45°	815.8	819.7	851.3	913.1	966.6	1036.4	1085.3	1150.2	1164.3	1140.3	1041.6
47.5°	796.1	801.5	835.7	904.5	989.7	1094.0	1150.0	1215.8	1224.0	1192.4	1082.7
50°	776.2	782.2	821.0	897.3	1007.7	1142.0	1197.2	1269.2	1271.6	1235.7	1119.7
52.5°	749.4	755.6	798.0	882.4	1020.2	1173.6	1238.5	1313.1	1314.6	1282.4	1154.8
55°	715.4	723.4	768.2	860.3	1023.2	1192.0	1264.7	1358.8	1368.9	1333.0	1183.5
57.5°	675.4	682.7	732.1	828.5	1008.1	1198.2	1301.2	1419.1	1433.2	1384.3	1207.3
60°	629.3	637.7	687.3	787.4	977.6	1215.8	1361.8	1504.4	1512.8	1437.9	1228.3
62.5°	582.1	588.2	633.2	729.7	930.0	1226.4	1415.4	1584.4	1590.0	1489.6	1240.9
65°	515.1	522.7	566.6	663.5	861.4	1206.0	1436.0	1639.1	1642.6	1532.9	1234.8
67.5°	442.2	448.2	480.3	583.7	771.4	1141.6	1427.6	1675.7	1686.7	1566.7	1207.3
69°	390.5	396.5	424.2	519.8	704.6	1084.5	1415.7	1700.6	1710.3	1564.3	1172.3
70°	350.2	356.3	382.5	472.2	652.2	1036.2	1396.8	1688.0	1694.3	1537.7	1138.1
72.5°	250.5	256.6	278.0	332.1	494.1	851.7	1280.2	1548.7	1557.1	1409.8	1017.2
75°	131.1	145.6	184.1	214.6	292.7	599.7	1064.3	1331.9	1344.3	1237.2	836.5
77.5°	16.9	17.7	51.9	87.2	120.9	252.9	756.1	1069.5	1089.0	990.1	578.5
80°	13.6	13.8	18.0	43.5	60.1	102.5	268.2	500.6	524.2	440.0	212.7
82.5°	9.5	10.0	14.1	22.9	19.7	37.4	93.2	141.5	145.8	126.1	84.8
85°	5.4	5.4	6.7	8.9	6.3	14.1	19.3	20.6	18.4	18.2	13.6
87.5°	1.5	1.7	1.9	1.5	0.6	0.6	0.9	0.9	0.9	0.6	0.6
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°	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5	401.5
2.5°	401.5	401.1	401.3	402.2	403.5	408.2	411.5	411.9	413.4	419.0	418.4
5°	408.4	411.0	412.5	417.1	420.1	426.6	430.5	430.9	433.1	438.9	439.1
7.5°	418.2	422.5	424.7	429.8	430.9	434.0	435.0	434.0	434.2	439.4	439.8
10°	426.6	432.0	432.0	433.3	431.4	431.6	428.1	424.9	423.1	427.7	428.8
12.5°	439.6	441.1	437.6	433.7	427.9	422.7	416.9	411.7	407.6	410.2	408.6
15°	453.0	450.6	442.2	432.0	421.6	412.8	400.6	393.1	385.9	387.4	386.1
17.5°	466.4	458.6	445.4	428.5	413.4	396.5	379.7	367.8	354.8	353.7	351.8
20°	479.4	468.1	446.3	421.4	400.2	376.4	350.2	329.9	310.6	305.7	302.4
22.5°	495.0	478.7	447.4	414.5	385.9	353.5	313.9	282.3	261.5	254.6	251.4
25°	514.9	493.4	450.4	409.3	371.4	325.1	270.8	234.7	212.2	200.3	199.2
27.5°	538.4	511.2	455.6	402.6	350.9	287.3	226.3	188.6	164.6	152.5	148.6
30°	569.4	533.3	460.3	397.4	321.9	246.0	179.6	137.6	109.0	101.2	97.1
32.5°	628.0	569.2	466.4	385.3	287.7	200.8	127.2	84.8	65.3	60.1	60.1
35°	723.4	648.1	481.5	368.6	246.6	146.2	76.4	47.6	38.9	35.9	34.4
37.5°	809.5	727.7	519.4	342.9	196.6	86.5	43.7	29.4	26.6	27.0	27.0
40°	870.3	782.2	561.2	308.1	133.5	46.3	27.7	23.6	24.0	24.2	24.2
42.5°	922.4	828.8	584.1	266.7	72.7	30.1	23.8	21.4	22.1	21.8	21.6
45°	966.1	866.6	591.7	209.8	35.3	26.6	21.6	19.7	19.7	19.5	19.5
47.5°	1003.6	900.1	577.6	156.0	28.6	24.4	20.6	18.2	18.0	19.0	19.0
50°	1037.7	926.1	542.6	118.1	27.7	22.5	19.5	16.9	17.1	18.6	18.6
52.5°	1066.3	941.5	490.6	88.5	25.7	20.8	18.0	15.8	15.8	17.3	17.3
55°	1087.5	941.5	451.0	66.2	24.7	19.0	16.7	15.1	14.3	14.7	14.9
57.5°	1098.1	923.7	419.2	53.6	23.4	17.3	15.4	13.2	11.7	12.1	11.9
60°	1095.3	913.6	382.7	47.8	21.8	16.0	13.6	11.2	9.7	9.3	9.3
62.5°	1090.1	902.1	337.0	41.5	20.3	14.9	11.2	9.1	8.2	7.8	8.0
65°	1070.4	864.9	279.3	34.6	18.8	14.5	9.5	8.0	7.1	6.7	6.7
67.5°	1022.8	797.8	211.1	29.2	17.5	11.7	8.2	6.9	6.1	5.6	5.6
69°	975.6	733.8	162.0	26.6	16.7	10.6	7.6	6.3	5.6	5.0	5.0
70°	935.0	684.3	127.0	24.9	16.0	10.2	7.4	6.1	5.4	4.8	4.8
72.5°	796.1	542.8	64.5	21.6	13.4	8.9	6.5	5.4	4.5	3.9	3.9
75°	617.6	374.0	42.6	17.1	10.4	8.0	5.8	4.8	3.9	3.2	3.0
77.5°	371.7	146.2	30.5	11.0	6.7	6.3	4.8	3.9	3.2	2.6	2.6
80°	102.5	62.7	20.6	7.4	3.9	4.1	3.5	2.8	2.4	1.9	1.9
82.5°	61.7	40.7	13.6	4.8	2.6	2.6	1.9	1.9	1.5	1.5	1.5
85°	10.6	8.2	3.2	1.9	1.5	1.5	1.1	0.6	0.6	0.6	0.6
87.5°	0.6	0.6	0.6	0.9	0.9	0.6	0.4	0.2	0.0	0.0	0.0
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)