

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: P234038

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)  
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-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 560mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2669 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

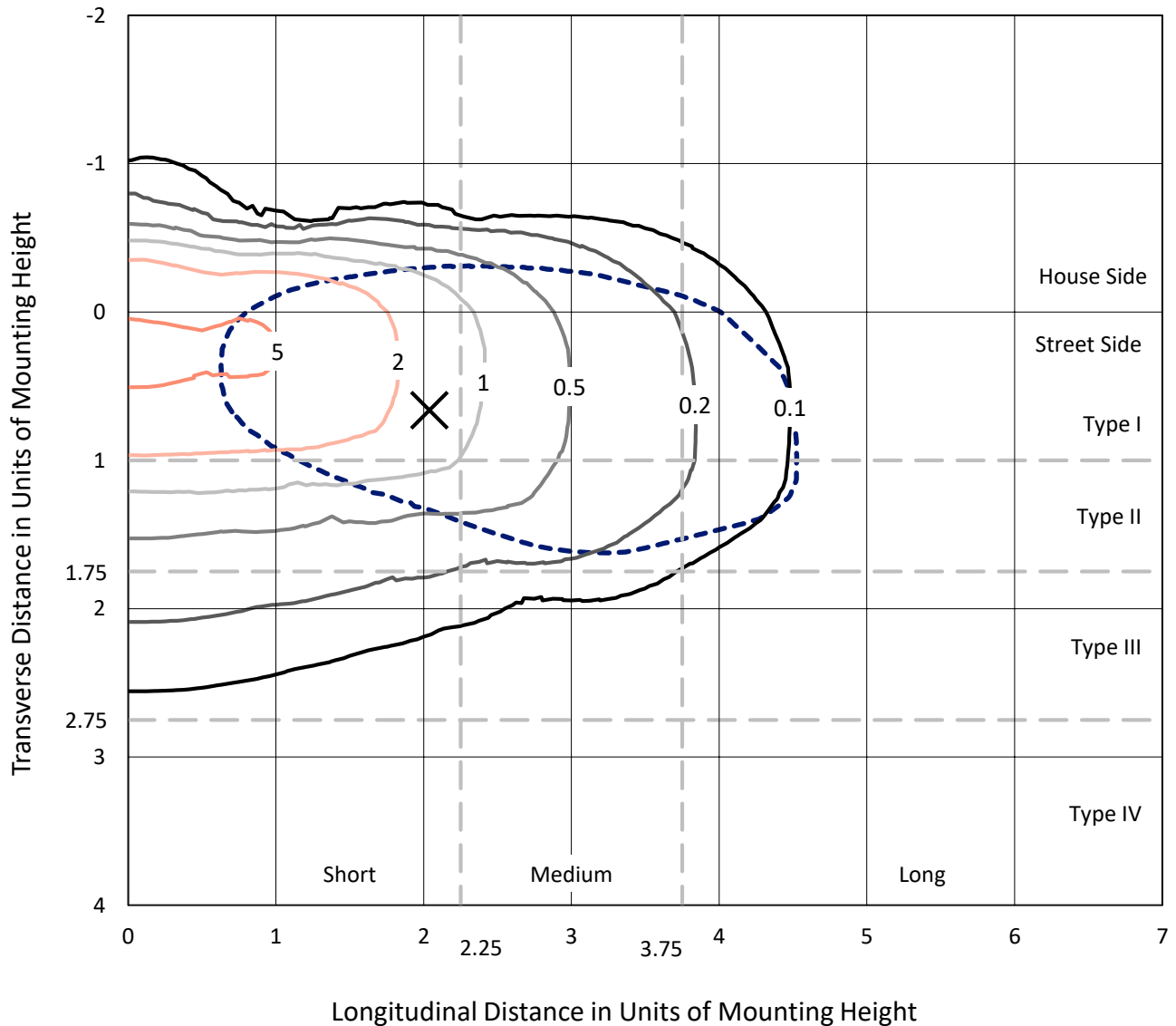
Input Watts (W): 24  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

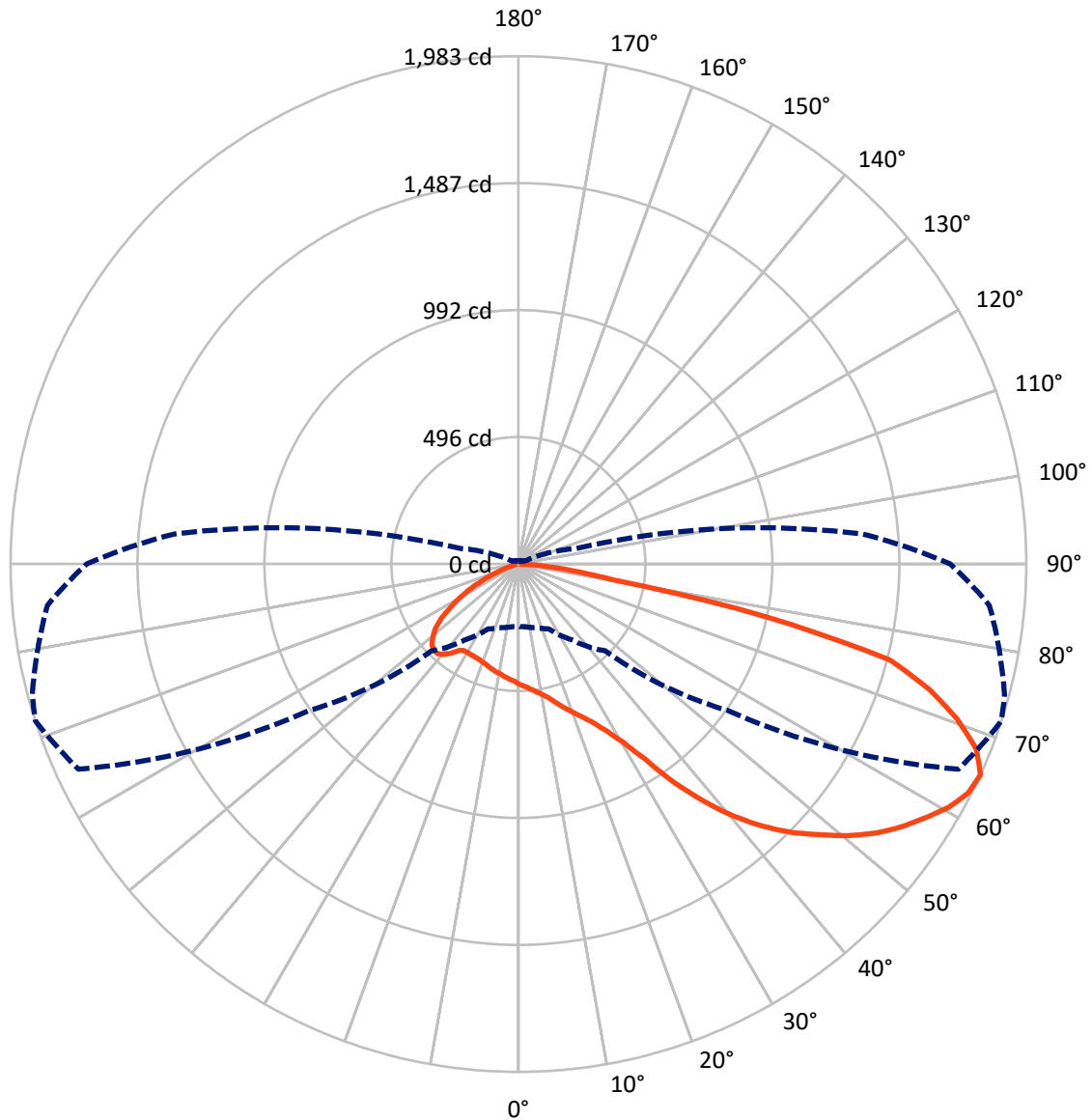
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	554.6	0.0	554.6
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	2114.4	0.0	2114.4
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	2669.0	0.0	2669.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.1	1.7
10°-20°	136.9	5.1
20°-30°	228.7	8.6
30°-40°	338.3	12.7
40°-50°	467.7	17.5
50°-60°	547.2	20.5
60°-70°	544.0	20.4
70°-80°	325.8	12.2
80°-90°	35.5	1.3
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°	2669.0	100.0
0°-180°	2669.0	100.0



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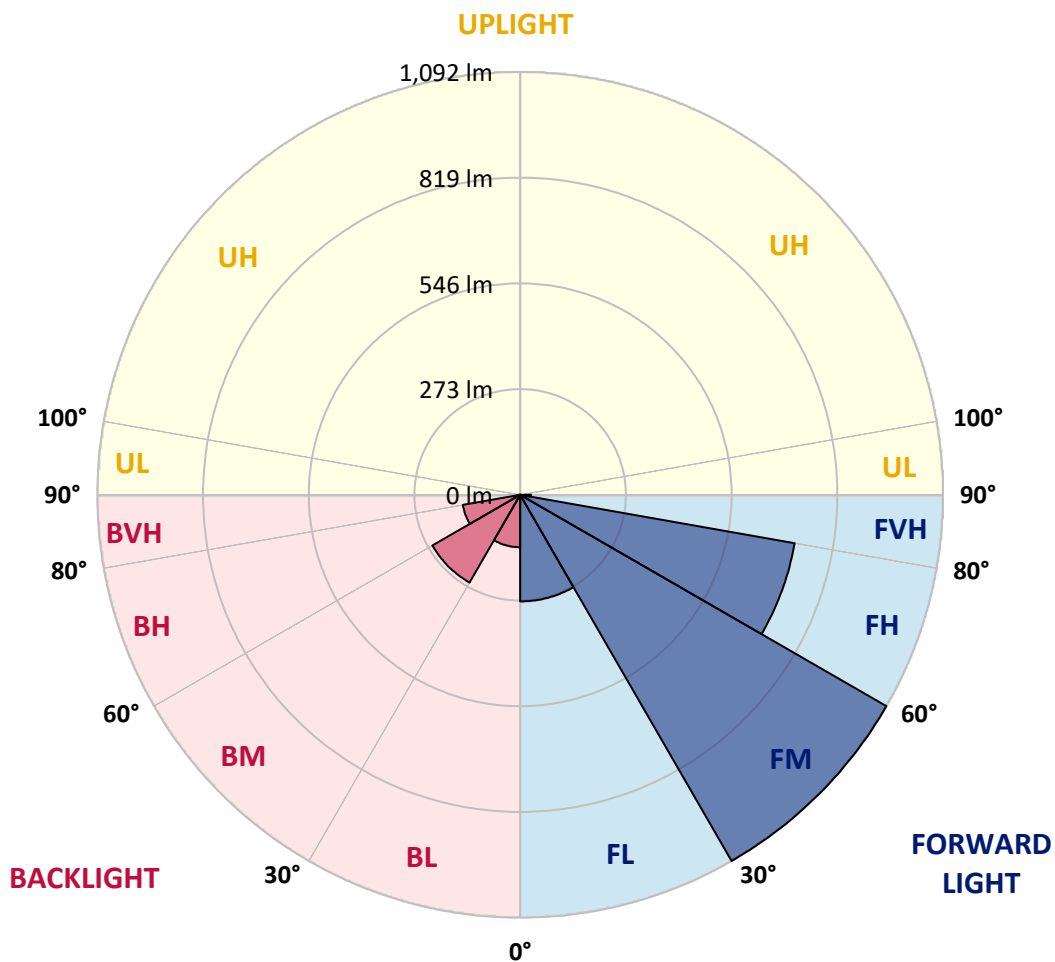
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.2	10.3			
FM (30°-60°)	1091.5	40.9			
FH (60°-80°)	719.6	27.0			G1/1800
FVH (80°-90°)	28.0	1.1			G1/100
BL (0°-30°)	135.4	5.1	B1/500		
BM (30°-60°)	261.6	9.8	B1/1000		
BH (60°-80°)	150.2	5.6	B1/500		G1/500
BVH (80°-90°)	7.4	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4
2.5°	510.0	510.5	510.7	502.6	498.3	493.3	488.5	483.2	477.8	475.8	468.6
5°	541.4	541.8	540.5	533.1	525.0	517.6	508.5	499.1	490.0	487.4	475.2
7.5°	571.6	571.4	570.3	561.0	551.0	541.2	528.3	515.7	503.7	499.6	481.5
10°	596.7	597.1	597.8	587.8	578.0	566.2	550.5	531.8	518.1	511.5	488.0
12.5°	624.1	622.8	624.6	614.8	601.3	590.6	576.4	554.4	538.1	529.8	500.7
15°	655.5	655.5	653.1	645.0	631.3	618.3	604.1	583.8	564.2	551.6	517.6
17.5°	677.1	675.7	675.1	668.1	656.4	645.0	634.2	613.5	592.1	576.7	533.5
20°	686.2	686.6	689.7	684.7	678.4	671.6	659.6	643.5	620.0	603.4	550.5
22.5°	703.8	704.3	708.0	704.5	702.7	701.0	689.9	675.7	650.7	634.8	571.9
25°	704.9	705.4	715.4	721.0	730.0	734.1	726.5	714.3	688.8	673.3	603.7
27.5°	708.2	709.5	719.7	735.4	758.9	767.2	762.9	762.4	740.9	724.5	645.0
30°	705.4	706.7	721.5	743.3	775.9	800.3	805.3	818.2	809.5	797.3	702.5
32.5°	685.3	690.1	707.8	742.4	790.5	834.7	850.8	894.8	907.9	909.2	817.9
35°	649.0	651.6	683.6	732.4	800.3	867.2	911.6	992.8	1048.1	1045.7	945.8
37.5°	621.3	622.2	655.1	715.4	805.8	902.0	980.8	1110.9	1174.4	1177.3	1061.2
40°	585.8	592.1	623.7	694.9	802.7	931.4	1049.7	1220.8	1294.9	1291.8	1162.5
42.5°	552.7	556.4	587.8	662.9	791.6	953.8	1117.2	1327.3	1400.1	1390.0	1259.6
45°	518.3	524.6	553.4	621.5	769.6	966.5	1178.4	1428.4	1495.0	1482.6	1345.2
47.5°	483.9	488.5	518.9	583.6	728.2	966.0	1238.5	1523.1	1579.3	1570.6	1426.2
50°	368.3	378.3	458.4	544.0	670.1	947.7	1287.0	1613.0	1667.7	1654.2	1505.2
52.5°	337.5	340.8	363.2	498.0	608.0	904.2	1324.9	1697.5	1745.7	1730.2	1579.7
55°	319.0	323.0	332.1	404.8	557.1	832.5	1340.6	1776.4	1812.3	1796.6	1646.1
57.5°	294.4	298.3	316.4	348.7	503.9	723.4	1317.5	1846.3	1871.3	1854.1	1707.8
60°	277.4	279.2	296.6	321.9	445.8	613.2	1240.4	1903.1	1929.2	1908.8	1768.7
62.5°	261.8	263.7	276.1	301.2	397.7	532.5	1120.4	1917.0	1970.4	1954.5	1824.5
65°	243.7	245.4	256.8	279.0	360.4	479.8	996.7	1895.7	1983.0	1965.0	1846.0
67.5°	219.7	222.1	231.1	251.1	311.6	420.1	812.7	1856.3	1927.7	1909.0	1801.8
70°	190.1	191.2	201.9	219.9	263.3	364.5	637.4	1716.0	1818.2	1797.5	1677.3
72.5°	153.5	155.5	167.0	186.0	216.2	300.3	455.4	1482.8	1679.5	1671.6	1495.9
75°	102.6	110.2	137.6	156.8	178.8	234.5	305.8	1040.7	1499.4	1505.5	1277.9
77.5°	19.6	20.3	57.7	85.8	104.5	143.3	189.2	511.3	988.2	1095.2	963.6
80°	12.8	13.9	24.6	60.1	69.3	71.0	97.1	224.1	372.4	471.0	555.8
82.5°	6.8	8.1	14.8	34.8	31.8	17.6	31.8	115.6	206.4	237.2	280.3
85°	2.8	3.3	7.2	12.0	8.9	7.4	7.4	46.2	91.5	105.8	110.0
87.5°	0.4	0.4	1.5	2.2	1.3	0.9	0.7	0.2	0.2	0.2	0.2
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°	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4	470.4
2.5°	468.6	464.7	459.3	453.0	448.4	446.0	444.0	438.8	437.1	440.6	439.7
5°	470.6	466.0	453.6	443.4	433.1	426.8	419.9	410.7	406.8	409.0	408.3
7.5°	471.9	466.2	447.7	431.8	414.6	402.7	393.5	381.5	375.7	377.8	375.2
10°	473.9	465.4	440.8	419.6	397.2	379.8	366.3	352.4	346.3	348.0	345.8
12.5°	482.1	468.4	437.5	409.2	381.8	360.0	343.0	328.2	319.5	321.2	319.5
15°	495.6	474.5	432.7	395.9	365.4	340.6	321.0	304.0	294.0	296.4	294.2
17.5°	509.8	481.9	428.4	381.1	348.0	320.3	299.9	285.5	269.4	270.9	267.6
20°	522.0	488.9	426.0	367.2	331.7	298.8	274.2	264.4	242.2	236.5	232.8
22.5°	539.0	499.1	424.0	355.8	311.4	277.2	248.0	229.7	205.8	193.8	192.7
25°	563.2	514.4	423.8	346.9	293.1	254.6	213.9	183.1	162.0	147.9	145.9
27.5°	593.9	534.6	426.2	338.0	274.8	226.0	171.8	137.8	118.9	108.0	106.1
30°	638.1	561.2	429.2	327.7	254.4	189.0	128.0	101.5	85.8	78.0	76.4
32.5°	732.8	629.4	433.8	317.1	229.7	142.4	93.0	73.6	61.6	56.8	59.2
35°	846.9	721.9	454.3	303.4	197.5	101.5	67.1	52.5	44.2	45.3	46.6
37.5°	946.7	810.3	500.2	285.7	154.4	74.5	46.2	39.2	39.2	42.7	45.7
40°	1040.7	890.0	541.4	261.8	108.2	51.4	35.7	36.4	35.7	37.9	37.2
42.5°	1129.6	965.6	573.6	233.2	70.8	35.5	32.4	33.8	32.7	33.1	31.1
45°	1213.6	1043.8	591.5	191.2	47.0	30.9	29.8	32.0	31.8	31.4	29.4
47.5°	1291.4	1112.6	600.4	137.8	32.4	27.9	28.1	29.6	30.3	29.8	28.7
50°	1367.6	1181.2	592.3	82.5	29.2	25.5	27.0	27.0	28.3	25.9	25.0
52.5°	1440.6	1250.0	566.9	50.1	26.8	23.7	25.0	24.6	25.3	22.9	22.4
55°	1509.2	1301.2	516.6	39.4	25.3	22.6	22.9	23.3	22.2	19.6	20.5
57.5°	1581.7	1344.7	446.4	35.7	24.6	21.1	21.6	21.3	19.6	17.2	17.2
60°	1641.3	1376.3	376.1	32.4	24.2	20.7	19.2	18.7	16.1	14.8	14.6
62.5°	1682.5	1385.2	307.5	29.0	22.9	19.2	17.2	15.9	13.5	12.2	11.8
65°	1685.8	1347.1	234.1	26.1	21.6	17.9	15.9	13.1	10.7	9.6	9.1
67.5°	1618.9	1241.3	165.1	24.0	19.4	16.6	13.9	10.5	8.5	7.6	7.4
70°	1479.1	1109.8	101.0	20.9	17.6	15.5	14.4	8.5	7.0	5.9	5.9
72.5°	1297.9	961.2	59.2	17.9	14.8	12.4	9.6	7.2	5.9	4.6	4.6
75°	1112.4	763.1	36.4	13.5	10.9	9.8	7.4	6.1	4.8	3.5	3.5
77.5°	801.0	563.4	28.3	8.7	6.8	7.0	5.4	4.8	3.9	2.8	2.8
80°	491.5	343.0	20.3	5.9	3.9	3.9	3.9	3.7	2.8	2.4	2.2
82.5°	249.1	156.8	10.0	3.5	2.4	2.4	2.4	2.6	2.2	1.7	1.7
85°	87.5	44.0	3.0	1.7	1.5	1.5	1.3	1.3	1.1	0.9	0.9
87.5°	0.2	0.4	0.4	0.7	0.9	0.9	0.7	0.4	0.2	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)