

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: P233797

Luminaire Tested: **VERD-C026-D-U-T4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233797  
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-C026-D-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 790mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8235 lumens  
Efficiency: N/A  
Efficacy: 132.8 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 - G3

Input Watts (W): 62  
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

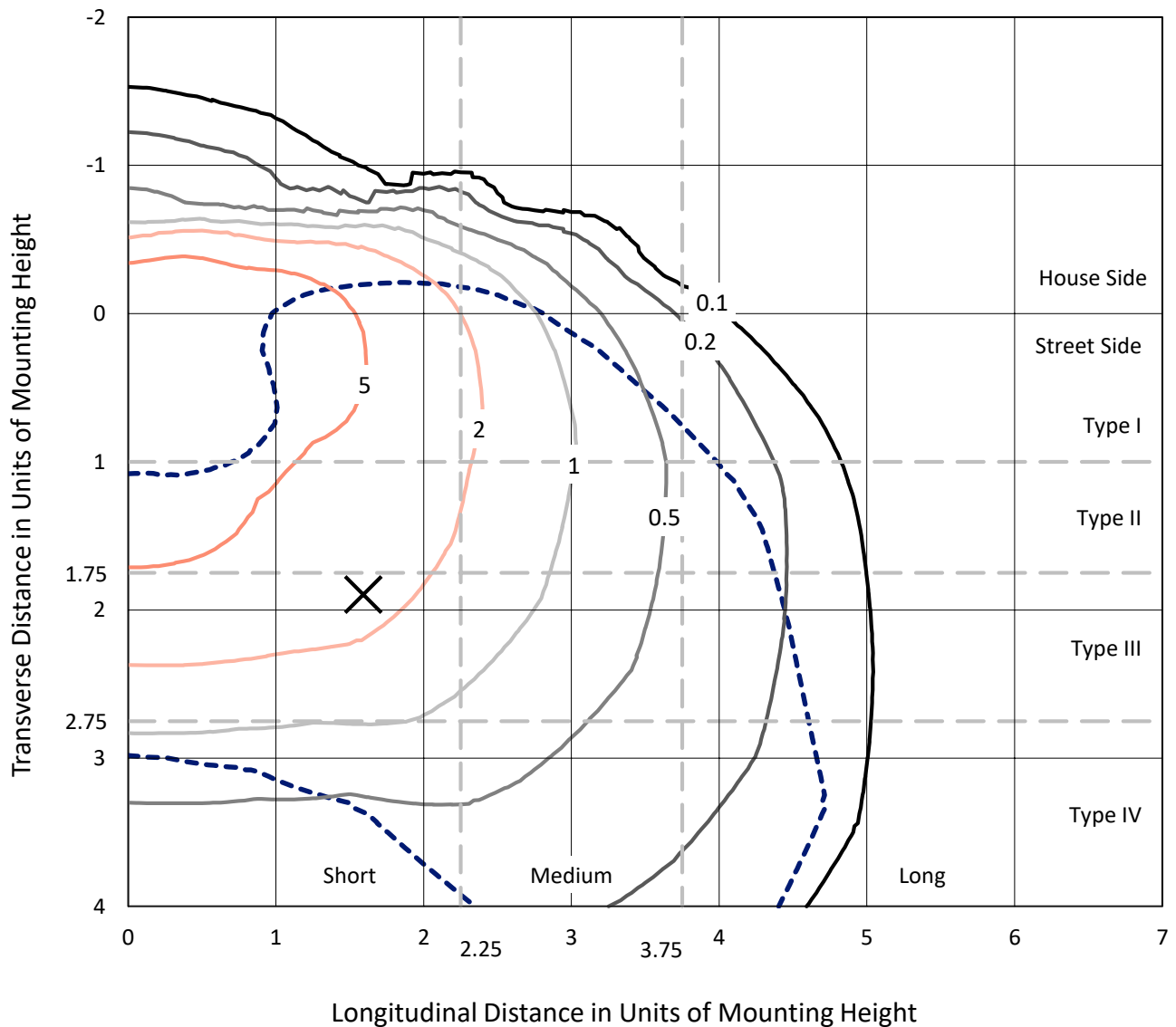


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

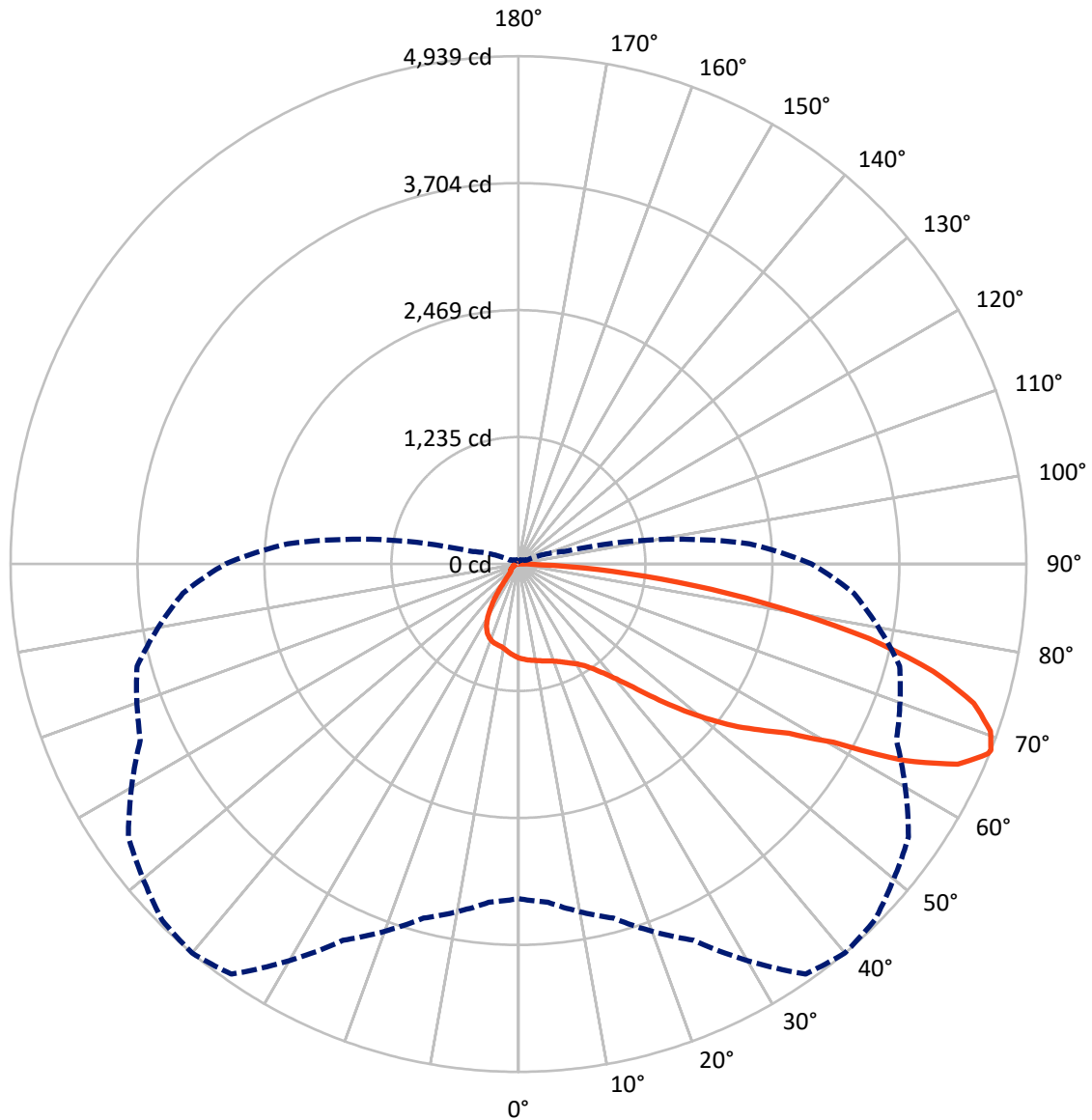


Based on 10 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - Non-Cutoff

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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	1335.9	0.0	1335.9
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	6899.1	0.0	6899.1
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	8235.0	0.0	8235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.8	1.1
10°-20°	260.0	3.2
20°-30°	436.4	5.3
30°-40°	646.3	7.8
40°-50°	1093.4	13.3
50°-60°	1668.7	20.3
60°-70°	2185.0	26.5
70°-80°	1570.9	19.1
80°-90°	287.6	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°	8235.0	100.0
0°-180°	8235.0	100.0

**Coefficient of Utilization**



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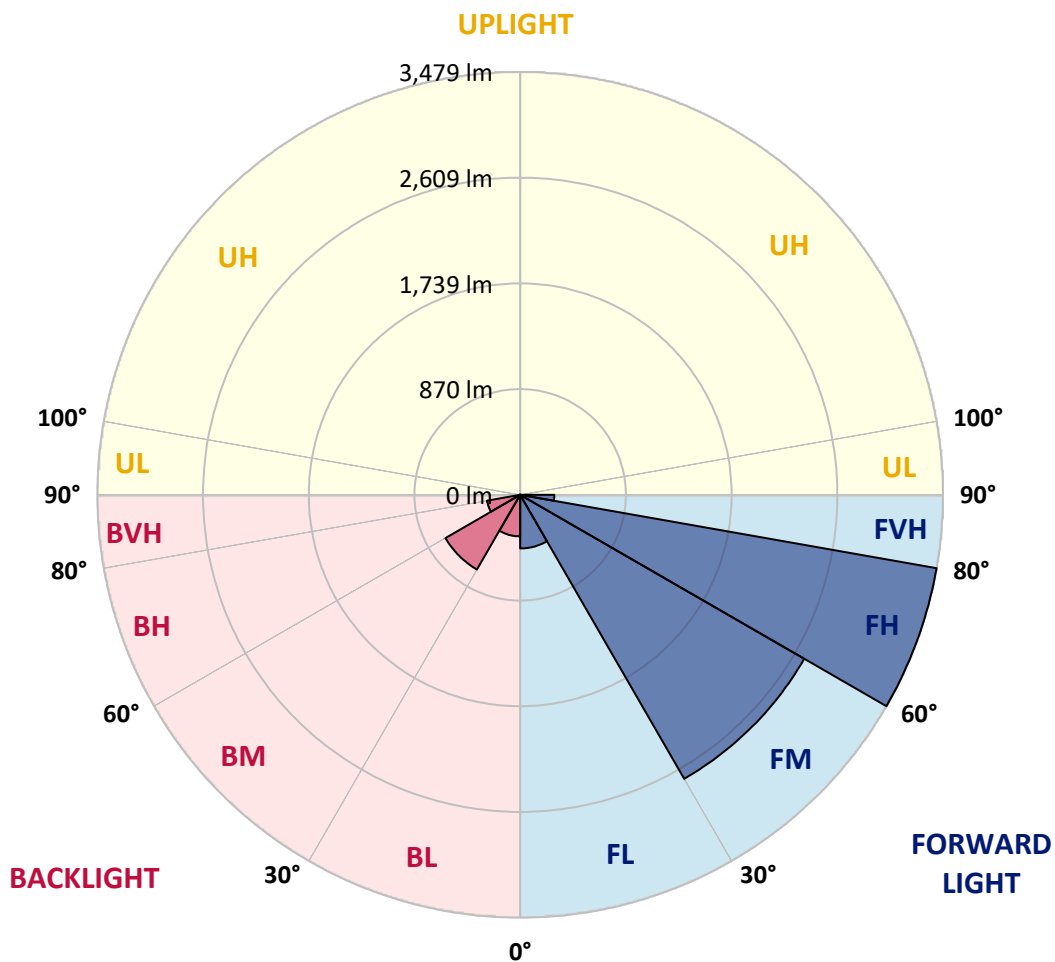
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.5	5.4			
FM	(30°-60°)	2698.3	32.8			
FH	(60°-80°)	3478.6	42.2			G2/5000
FVH	(80°-90°)	280.7	3.4			G3/500
BL	(0°-30°)	341.8	4.2	B1/500		
BM	(30°-60°)	710.0	8.6	B1/1000		
BH	(60°-80°)	277.2	3.4	B1/500		G1/500
BVH	(80°-90°)	6.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1
2.5°	944.0	946.1	943.3	936.4	928.9	924.7	924.0	923.3	919.9	915.1	908.2
5°	953.7	954.4	951.6	946.1	939.2	937.8	935.8	936.4	934.4	929.5	922.0
7.5°	957.8	959.2	955.8	950.2	944.7	944.7	944.0	946.1	944.7	942.7	933.7
10°	956.4	958.5	956.4	954.4	952.3	954.4	953.0	957.8	958.5	958.5	948.2
12.5°	954.4	957.1	957.8	959.9	963.3	965.4	968.2	978.5	983.3	986.8	978.5
15°	956.4	957.8	963.3	966.8	973.7	978.5	984.7	1002.0	1010.2	1019.9	1015.7
17.5°	965.4	968.9	977.1	980.6	987.5	990.9	998.5	1019.9	1036.4	1053.7	1056.4
20°	984.7	986.8	1000.6	1002.0	1005.4	1008.8	1017.1	1040.6	1065.4	1090.2	1097.1
22.5°	1006.1	1010.9	1024.0	1022.0	1028.8	1030.2	1037.8	1063.3	1097.8	1128.1	1143.3
25°	1028.2	1032.3	1045.4	1046.8	1055.1	1060.6	1069.5	1094.4	1138.5	1177.1	1204.0
27.5°	1046.8	1055.1	1067.5	1068.8	1084.7	1091.6	1104.7	1133.0	1186.1	1233.7	1277.8
30°	1081.3	1083.3	1095.0	1099.2	1120.6	1126.8	1141.9	1177.8	1242.6	1301.9	1370.9
32.5°	1124.0	1123.3	1134.4	1141.2	1167.5	1178.5	1197.8	1239.2	1310.9	1384.7	1482.6
35°	1202.6	1195.7	1202.6	1209.5	1239.9	1251.6	1272.3	1334.3	1418.5	1544.0	1664.6
37.5°	1383.3	1372.9	1358.5	1324.0	1331.6	1346.7	1377.1	1461.2	1585.3	1818.4	1935.0
40°	1696.4	1673.6	1612.9	1521.9	1468.1	1469.5	1497.8	1608.1	1790.1	2132.9	2220.4
42.5°	1979.8	1963.9	1890.8	1766.0	1641.9	1635.0	1644.6	1773.6	2013.6	2424.5	2470.1
45°	2246.6	2254.2	2148.0	2050.1	1901.9	1856.3	1844.6	1950.1	2261.1	2684.5	2688.7
47.5°	2493.5	2505.9	2377.7	2285.3	2139.1	2099.8	2063.2	2135.6	2494.9	2905.9	2872.1
50°	2759.0	2768.6	2590.7	2514.9	2392.1	2355.6	2328.0	2359.7	2734.2	3111.4	3035.5
52.5°	3125.8	3072.1	2848.6	2723.1	2614.2	2611.4	2590.0	2610.0	3006.6	3296.2	3159.6
55°	3558.9	3418.2	3181.0	2980.3	2840.4	2847.9	2822.4	2855.5	3276.2	3454.8	3274.8
57.5°	3712.0	3708.5	3598.2	3405.8	3121.7	3104.5	3060.3	3097.6	3509.3	3603.0	3356.2
60°	3924.4	3943.0	3955.4	3839.6	3675.4	3518.9	3371.3	3367.9	3726.5	3738.2	3396.2
62.5°	4061.6	4078.8	4175.4	4160.2	4261.6	4209.9	4041.6	3668.5	3892.7	3825.8	3411.3
65°	3805.1	3847.8	4091.3	4276.8	4622.2	4694.6	4670.5	4130.6	4005.7	3851.3	3383.1
67.5°	3341.0	3396.9	3663.7	4097.5	4845.7	4926.3	4882.2	4596.0	4054.7	3840.2	3305.1
68°	3254.1	3302.4	3564.4	4037.5	4868.4	4938.7	4898.7	4630.5	4056.8	3838.9	3275.5
70°	2836.2	2875.5	3131.4	3729.9	4805.0	4870.5	4865.0	4662.9	4038.8	3796.1	3076.2
72.5°	2200.4	2239.7	2466.6	3093.4	4511.9	4631.9	4627.1	4533.3	4005.7	3578.2	2579.0
75°	1590.9	1634.3	1841.2	2377.0	3904.4	4168.5	4221.6	4311.2	3661.6	3011.4	1835.0
77.5°	1148.8	1180.6	1359.2	1795.7	3189.3	3491.3	3598.9	3689.2	2996.9	2194.9	873.0
80°	766.1	788.9	961.3	1335.0	2402.5	2580.4	2696.2	2545.2	1705.3	793.7	94.5
82.5°	471.7	486.2	622.0	936.4	1661.9	1717.7	1718.4	1357.8	549.6	75.9	51.0
85°	253.1	257.9	337.9	511.0	877.8	919.9	903.3	570.3	111.0	40.7	27.6
87.5°	40.7	44.1	106.2	191.7	271.0	208.9	133.8	42.1	11.0	6.2	4.1
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°	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1	915.1
2.5°	911.6	909.6	904.0	901.3	894.4	896.4	896.4	890.9	893.7	904.7	903.3
5°	919.9	920.6	907.5	900.6	885.4	881.3	875.1	866.8	866.1	873.7	874.4
7.5°	926.8	930.2	911.6	897.8	877.1	862.7	850.2	835.8	832.3	837.1	837.1
10°	937.8	941.3	917.8	898.5	868.2	844.7	823.4	804.7	797.2	797.2	797.8
12.5°	966.8	964.7	937.8	908.2	872.3	835.1	801.3	776.5	758.5	757.8	755.1
15°	1006.8	999.2	973.0	928.2	882.0	834.4	787.5	748.9	717.8	709.6	706.1
17.5°	1049.5	1039.9	1008.2	953.7	897.1	833.7	771.6	717.8	666.1	646.1	639.9
20°	1095.7	1084.0	1051.6	983.3	912.3	828.9	748.2	673.0	602.7	564.8	555.1
22.5°	1146.8	1137.1	1097.8	1013.7	922.7	818.5	711.6	616.5	526.8	472.4	468.2
25°	1213.0	1204.0	1146.1	1040.6	923.3	799.2	663.4	544.1	431.7	367.5	354.4
27.5°	1292.3	1276.4	1184.7	1057.1	912.3	765.4	600.6	447.5	320.7	266.9	265.5
30°	1378.5	1349.5	1215.7	1061.3	887.5	711.6	514.4	328.9	227.6	191.0	191.0
32.5°	1479.8	1426.7	1247.4	1054.4	846.8	637.2	393.7	228.2	156.5	139.3	139.3
35°	1628.1	1546.0	1288.1	1037.1	789.6	534.4	280.0	151.0	123.4	121.4	121.4
37.5°	1862.5	1726.0	1343.3	1008.2	711.0	407.5	182.0	116.5	117.9	117.9	117.2
40°	2112.2	1934.3	1419.1	962.0	612.3	281.3	119.3	110.3	112.4	113.8	113.1
42.5°	2337.7	2132.2	1501.9	899.9	495.8	177.2	109.0	106.2	104.8	106.2	106.9
45°	2532.8	2303.9	1585.3	819.2	366.2	115.8	106.2	100.0	95.9	96.5	97.2
47.5°	2699.7	2439.0	1641.9	734.4	242.7	102.7	102.7	91.7	87.6	87.6	87.6
50°	2845.9	2559.0	1676.4	633.0	144.8	101.4	96.5	84.1	80.0	79.3	80.0
52.5°	2952.1	2643.1	1672.2	509.6	97.2	97.9	88.3	77.2	72.4	73.8	74.5
55°	3036.2	2696.2	1635.7	373.1	91.0	91.7	82.1	69.6	66.2	66.9	66.9
57.5°	3089.3	2709.3	1561.2	242.7	89.0	82.1	73.8	62.1	57.9	57.9	57.9
60°	3106.5	2702.4	1459.8	155.2	88.3	73.8	66.9	55.9	51.7	51.7	51.7
62.5°	3092.1	2662.5	1288.1	111.7	82.1	69.0	60.7	49.6	45.5	44.1	44.1
65°	3040.3	2555.6	993.0	92.4	73.8	63.4	55.2	44.8	39.3	37.2	36.5
67.5°	2889.3	2323.9	577.9	86.9	66.9	57.9	51.0	40.7	34.5	31.0	30.3
68°	2850.0	2254.9	475.1	86.2	66.9	57.2	50.3	39.3	33.1	29.7	29.0
70°	2568.7	1819.1	136.5	82.1	65.5	55.2	46.2	35.9	29.7	25.5	24.8
72.5°	1934.3	1066.1	85.5	73.1	64.8	49.0	44.8	35.9	26.2	22.1	20.7
75°	1079.9	242.7	72.4	54.5	60.7	48.3	44.1	32.4	23.4	17.9	17.2
77.5°	222.0	70.3	62.1	37.9	46.2	42.1	37.2	27.6	21.4	13.8	13.1
80°	62.8	52.4	55.2	27.6	26.2	29.7	27.6	24.1	15.9	10.3	10.3
82.5°	40.7	38.6	49.6	18.6	13.8	13.8	17.9	14.5	13.8	8.3	8.3
85°	24.8	32.4	24.1	8.3	6.9	5.5	6.2	6.2	8.3	5.5	5.5
87.5°	3.4	3.4	3.4	3.4	3.4	2.8	2.1	2.1	2.1	2.8	2.8
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)