

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: P509265

Luminaire Tested: **VERD-CA2-60-730-U-T4**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-730-U-T4  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 850mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9109 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

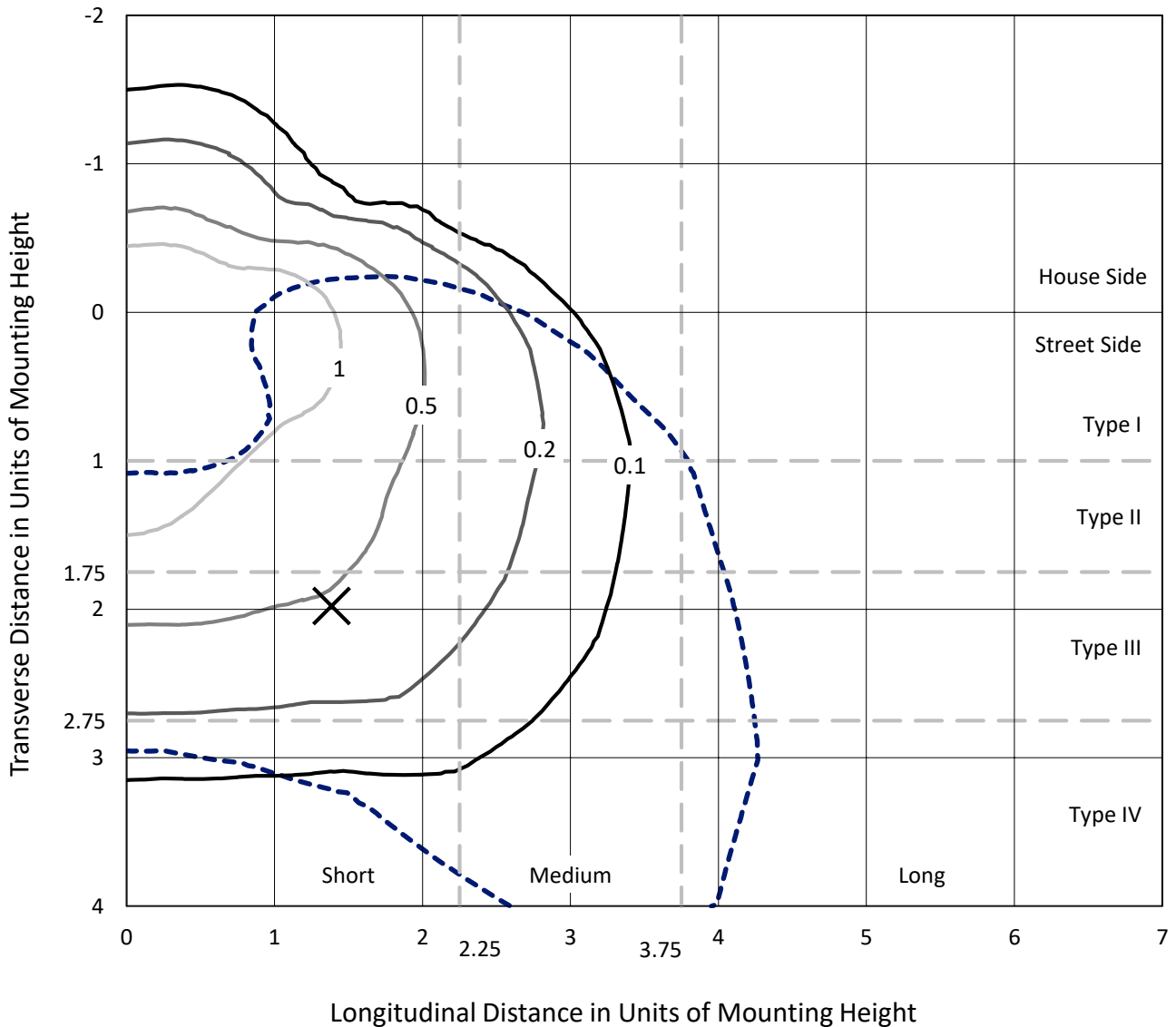
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

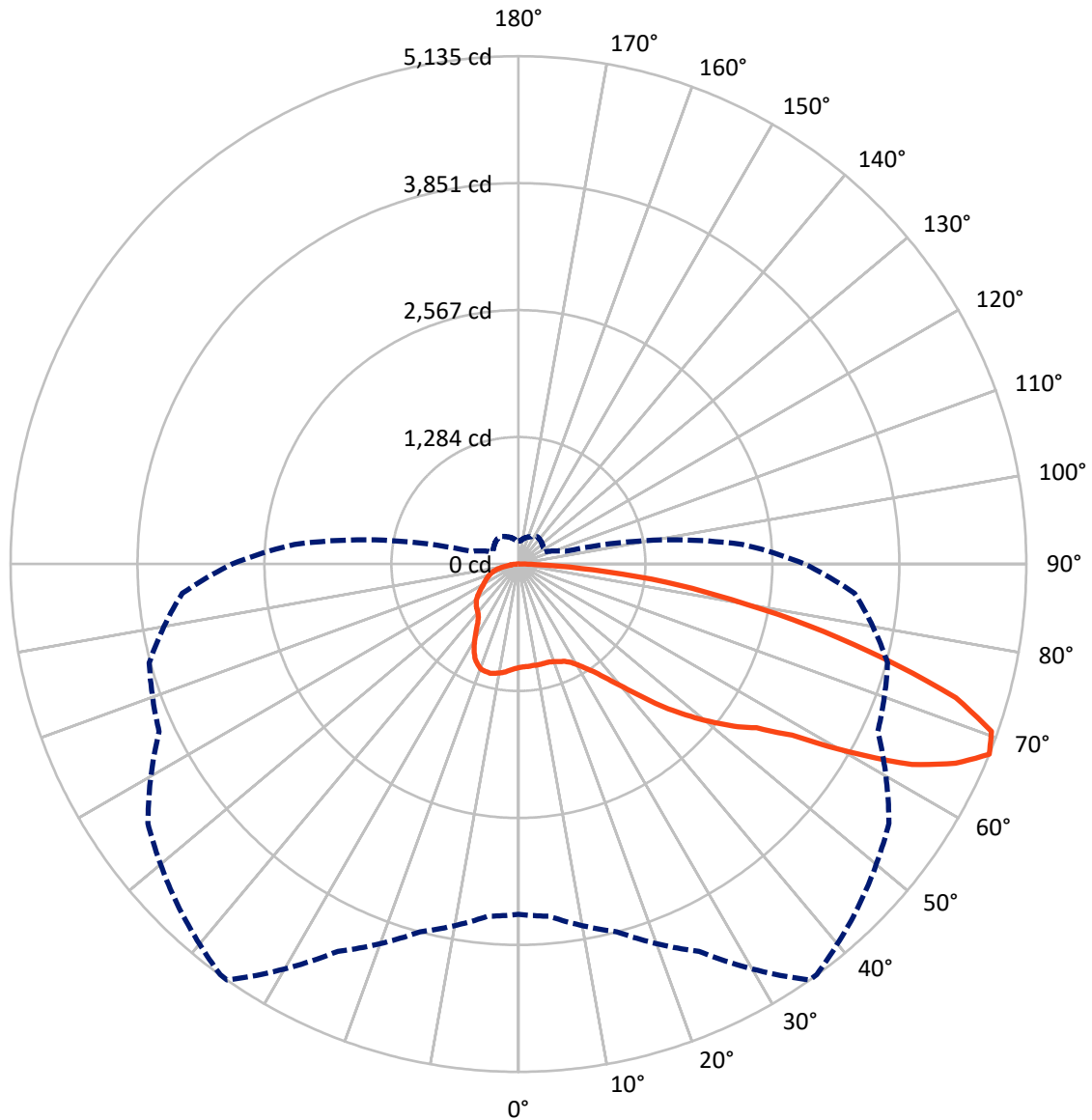
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2075.2	0.0	2075.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	7033.8	0.0	7033.8
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	9109.0	0.0	9109.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	1.1
10°-20°	310.7	3.4
20°-30°	518.6	5.7
30°-40°	797.9	8.8
40°-50°	1314.9	14.4
50°-60°	1878.1	20.6
60°-70°	2338.3	25.7
70°-80°	1578.0	17.3
80°-90°	271.2	3.0
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°	9109.0	100.0
0°-180°	9109.0	100.0

**Coefficient of Utilization**



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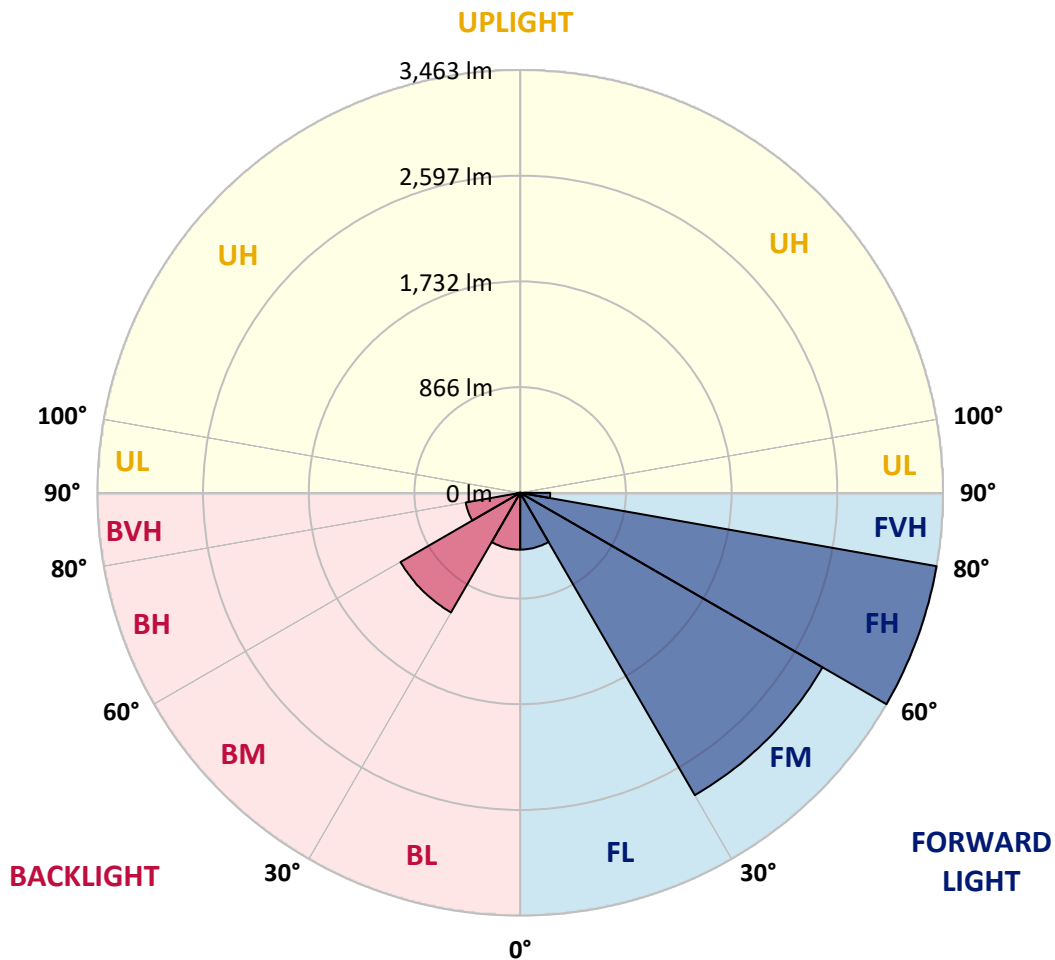
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	464.8	5.1			
FM	(30°-60°)	2859.4	31.4			
FH	(60°-80°)	3463.3	38.0			G2/5000
FVH	(80°-90°)	246.2	2.7			G3/500
BL	(0°-30°)	465.8	5.1	B1/500		
BM	(30°-60°)	1131.4	12.4	B2/2500		
BH	(60°-80°)	453.0	5.0	B1/500		G1/500
BVH	(80°-90°)	25.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7
2.5°	1032.0	1041.8	1040.8	1038.9	1039.9	1040.8	1035.9	1033.0	1036.9	1037.9	1042.8
5°	1031.0	1038.9	1037.9	1037.9	1040.8	1039.9	1032.0	1026.1	1033.0	1037.9	1042.8
7.5°	1030.0	1036.9	1036.9	1034.0	1035.9	1035.9	1032.0	1035.9	1035.9	1043.8	1049.7
10°	1029.1	1035.0	1035.0	1035.9	1038.9	1039.9	1039.9	1042.8	1053.6	1056.6	1068.3
12.5°	1017.3	1022.2	1026.1	1032.0	1037.9	1039.9	1044.8	1053.6	1067.4	1074.2	1088.0
15°	1007.5	1014.3	1021.2	1027.1	1035.9	1037.9	1048.7	1063.4	1078.2	1092.9	1113.5
17.5°	1011.4	1020.2	1028.1	1033.0	1039.9	1041.8	1052.6	1072.3	1095.8	1117.4	1145.9
20°	1020.2	1030.0	1037.9	1043.8	1052.6	1054.6	1063.4	1082.1	1112.5	1145.9	1178.3
22.5°	1041.8	1048.7	1057.5	1060.5	1070.3	1072.3	1078.2	1096.8	1136.1	1178.3	1219.6
25°	1061.5	1069.3	1076.2	1079.1	1089.9	1091.9	1102.7	1118.4	1164.6	1212.7	1272.6
27.5°	1087.0	1094.9	1103.7	1106.6	1125.3	1127.3	1132.2	1155.7	1201.9	1257.9	1332.5
30°	1136.1	1141.0	1150.8	1162.6	1181.3	1183.2	1194.0	1218.6	1252.0	1320.7	1419.9
32.5°	1210.7	1217.6	1213.7	1229.4	1256.9	1256.9	1294.2	1335.4	1376.7	1424.8	1556.4
35°	1354.1	1350.2	1346.2	1332.5	1349.2	1355.1	1407.1	1476.8	1591.7	1727.2	1856.8
37.5°	1531.8	1530.8	1510.2	1478.8	1477.8	1479.8	1526.9	1644.7	1827.4	2128.8	2268.3
40°	1804.8	1812.6	1740.0	1675.2	1638.8	1631.0	1668.3	1816.6	2062.1	2463.7	2558.9
42.5°	2077.8	2061.1	2002.2	1897.1	1836.2	1831.3	1838.2	1967.8	2289.9	2734.7	2769.1
45°	2319.3	2332.1	2239.8	2176.0	2064.0	2066.0	2035.5	2154.4	2515.7	2926.2	2932.1
47.5°	2565.8	2575.6	2460.7	2388.1	2281.0	2281.0	2232.9	2327.2	2717.0	3108.8	3097.0
50°	2828.9	2851.5	2707.2	2597.2	2499.0	2495.1	2480.4	2539.3	2915.4	3263.0	3215.8
52.5°	3184.4	3106.8	2970.3	2821.1	2723.9	2712.1	2698.4	2740.6	3143.2	3388.7	3292.4
55°	3551.7	3446.6	3307.2	3106.8	2923.2	2939.9	2905.5	2953.7	3352.3	3538.9	3392.6
57.5°	3774.6	3813.8	3738.2	3566.4	3263.9	3261.0	3131.4	3156.9	3539.9	3665.6	3498.6
60°	4009.2	4064.2	4115.3	4013.2	3869.8	3805.0	3472.1	3372.9	3751.0	3757.9	3486.8
62.5°	4132.0	4121.2	4343.1	4354.9	4465.8	4473.7	4148.7	3652.8	3875.7	3835.4	3528.1
65°	3913.0	3918.9	4284.2	4474.7	4856.6	4879.2	4760.4	4144.7	3980.8	3871.8	3481.0
67.5°	3541.8	3575.2	3849.2	4320.5	5134.5	5130.6	4873.3	4572.9	4008.3	3863.9	3412.2
70°	2896.7	2932.1	3212.9	3897.3	5073.6	5041.2	4825.2	4607.2	3984.7	3793.2	3069.5
72.5°	2222.1	2217.2	2507.9	3112.7	4625.9	4657.3	4578.8	4364.7	3871.8	3490.8	2514.7
75°	1566.2	1541.6	1799.9	2359.6	3814.8	3930.7	4198.7	4139.8	3444.6	2873.1	1681.1
77.5°	1028.1	1065.4	1271.6	1744.9	2999.8	3097.0	3467.2	3350.4	2549.1	1833.3	606.8
80°	653.0	686.4	853.3	1246.1	2180.9	2225.1	2527.5	2130.8	1361.9	604.9	84.4
82.5°	396.7	401.6	549.9	842.5	1504.3	1504.3	1591.7	1191.1	533.2	78.6	55.0
85°	211.1	222.9	296.5	454.6	758.1	815.0	721.7	454.6	103.1	43.2	33.4
87.5°	66.8	67.8	97.2	175.8	163.0	167.9	56.0	23.6	11.8	7.9	6.9
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°	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7	1046.7
2.5°	1044.8	1045.8	1051.7	1054.6	1055.6	1052.6	1059.5	1069.3	1066.4	1077.2	1073.3
5°	1044.8	1049.7	1057.5	1056.6	1064.4	1068.3	1076.2	1086.0	1083.1	1098.8	1092.9
7.5°	1052.6	1060.5	1066.4	1078.2	1084.1	1082.1	1099.8	1107.6	1103.7	1115.5	1109.6
10°	1072.3	1081.1	1089.0	1101.7	1110.6	1106.6	1116.5	1121.4	1114.5	1126.3	1123.3
12.5°	1094.9	1104.7	1120.4	1129.2	1136.1	1129.2	1129.2	1126.3	1116.5	1127.3	1120.4
15°	1120.4	1133.2	1154.8	1164.6	1162.6	1150.8	1140.0	1119.4	1092.9	1097.8	1088.0
17.5°	1154.8	1170.5	1195.0	1200.9	1193.0	1164.6	1136.1	1098.8	1051.7	1039.9	1032.0
20°	1192.1	1209.7	1244.1	1241.2	1223.5	1173.4	1128.2	1070.3	996.7	963.3	947.6
22.5°	1243.1	1260.8	1293.2	1275.5	1239.2	1173.4	1096.8	1016.3	928.9	879.8	869.0
25°	1299.1	1323.6	1337.4	1298.1	1235.3	1146.9	1054.6	948.5	836.6	783.6	772.8
27.5°	1367.8	1384.5	1370.8	1301.1	1215.6	1102.7	985.9	858.2	751.2	706.0	690.3
30°	1448.4	1450.3	1396.3	1295.2	1171.4	1039.9	901.4	766.9	684.4	642.2	632.4
32.5°	1555.4	1535.7	1418.9	1267.7	1111.5	953.5	807.1	706.0	637.3	584.3	570.5
35°	1834.3	1744.9	1469.0	1236.3	1038.9	857.2	725.6	651.0	593.1	533.2	522.4
37.5°	2195.6	2037.5	1557.3	1203.9	956.4	768.9	671.6	618.6	569.5	502.7	488.0
40°	2466.6	2284.0	1693.8	1168.5	880.8	706.0	642.2	605.9	551.8	491.0	475.3
42.5°	2673.8	2489.2	1834.3	1129.2	810.1	656.9	621.6	597.0	545.0	488.0	475.3
45°	2817.2	2632.6	1955.0	1083.1	719.8	614.7	605.9	582.3	532.2	477.2	464.5
47.5°	2962.5	2733.7	2022.8	1035.0	644.1	591.1	583.3	556.8	510.6	458.6	448.7
50°	3089.2	2848.6	2080.7	985.9	584.3	562.6	557.7	522.4	478.2	429.1	416.3
52.5°	3125.5	2876.1	2057.2	982.9	530.2	532.2	522.4	493.9	452.7	399.6	386.9
55°	3208.0	2952.7	2000.2	892.6	478.2	485.1	483.1	468.4	430.1	381.0	371.2
57.5°	3243.3	2894.7	1917.7	663.8	424.2	430.1	446.8	446.8	413.4	369.2	360.4
60°	3238.4	2896.7	1770.4	464.5	371.2	386.9	410.4	410.4	383.9	340.7	329.9
62.5°	3201.1	2822.1	1525.9	354.5	337.8	360.4	387.9	370.2	346.6	298.5	290.7
65°	3139.2	2616.9	1057.5	311.3	319.1	345.6	359.4	337.8	309.3	266.1	261.2
67.5°	2891.8	2273.2	491.9	284.8	303.4	324.0	335.8	305.4	275.9	236.6	230.8
70°	2461.7	1663.4	212.1	264.1	284.8	299.5	311.3	279.9	248.4	214.1	212.1
72.5°	1790.1	887.7	176.7	231.7	253.3	269.0	283.8	252.4	221.9	181.7	181.7
75°	862.1	147.3	152.2	192.5	212.1	243.5	250.4	206.2	171.8	138.5	135.5
77.5°	106.0	95.2	131.6	153.2	169.9	186.6	203.3	178.7	148.3	113.9	108.0
80°	66.8	66.8	104.1	107.0	115.9	133.5	149.3	139.4	116.9	65.8	60.9
82.5°	49.1	53.0	68.7	51.1	60.9	76.6	87.4	99.2	84.4	46.2	43.2
85°	31.4	34.4	32.4	25.5	33.4	51.1	69.7	68.7	57.0	34.4	32.4
87.5°	6.9	6.9	6.9	5.9	6.9	8.8	16.7	32.4	23.6	18.7	17.7
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)