

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: P233773

Luminaire Tested: **VERD-C029-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233773
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-C029-D-U-T4-8027-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1030mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9117 lumens
Efficiency: N/A
Efficacy: 112.6 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

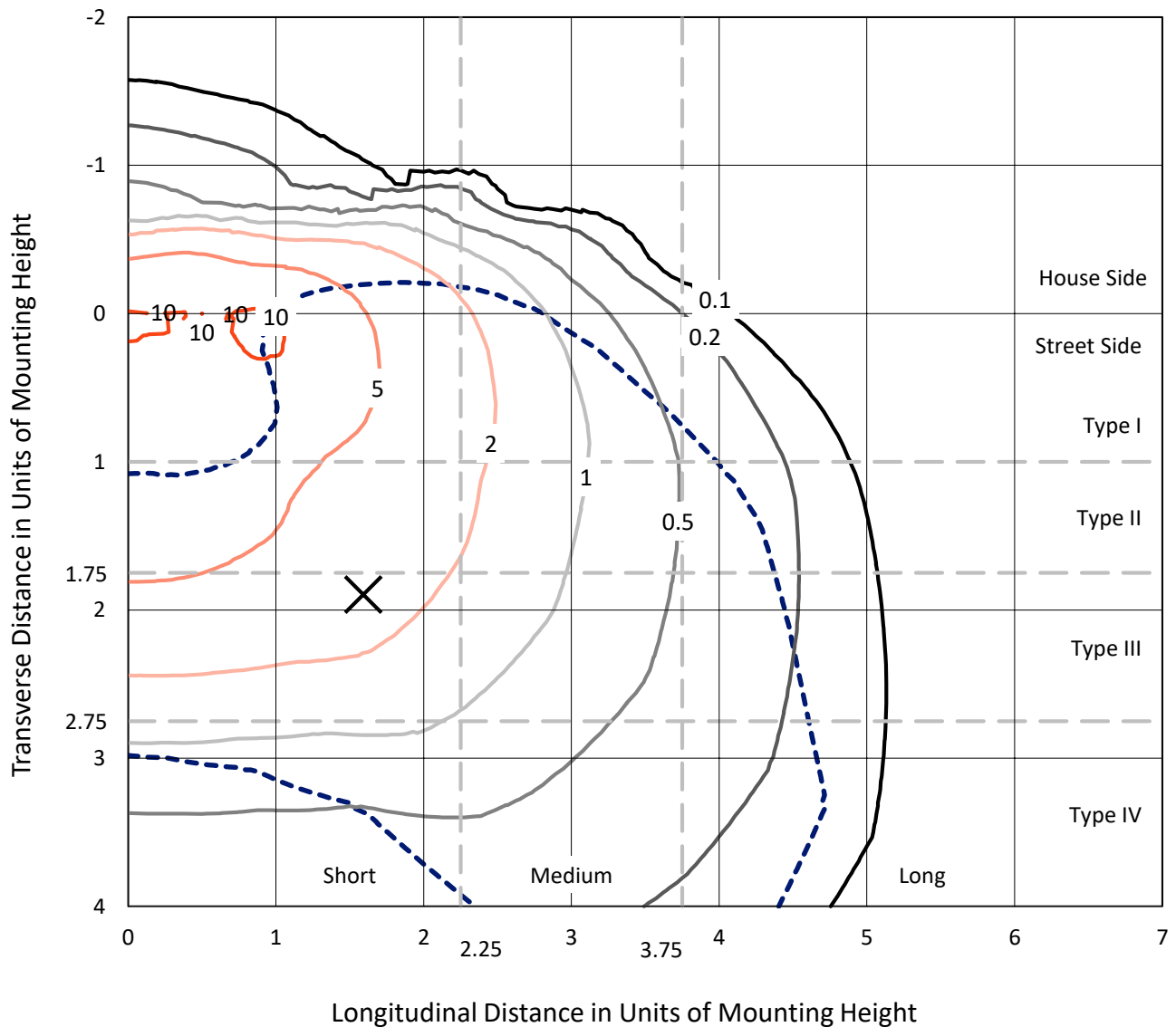
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

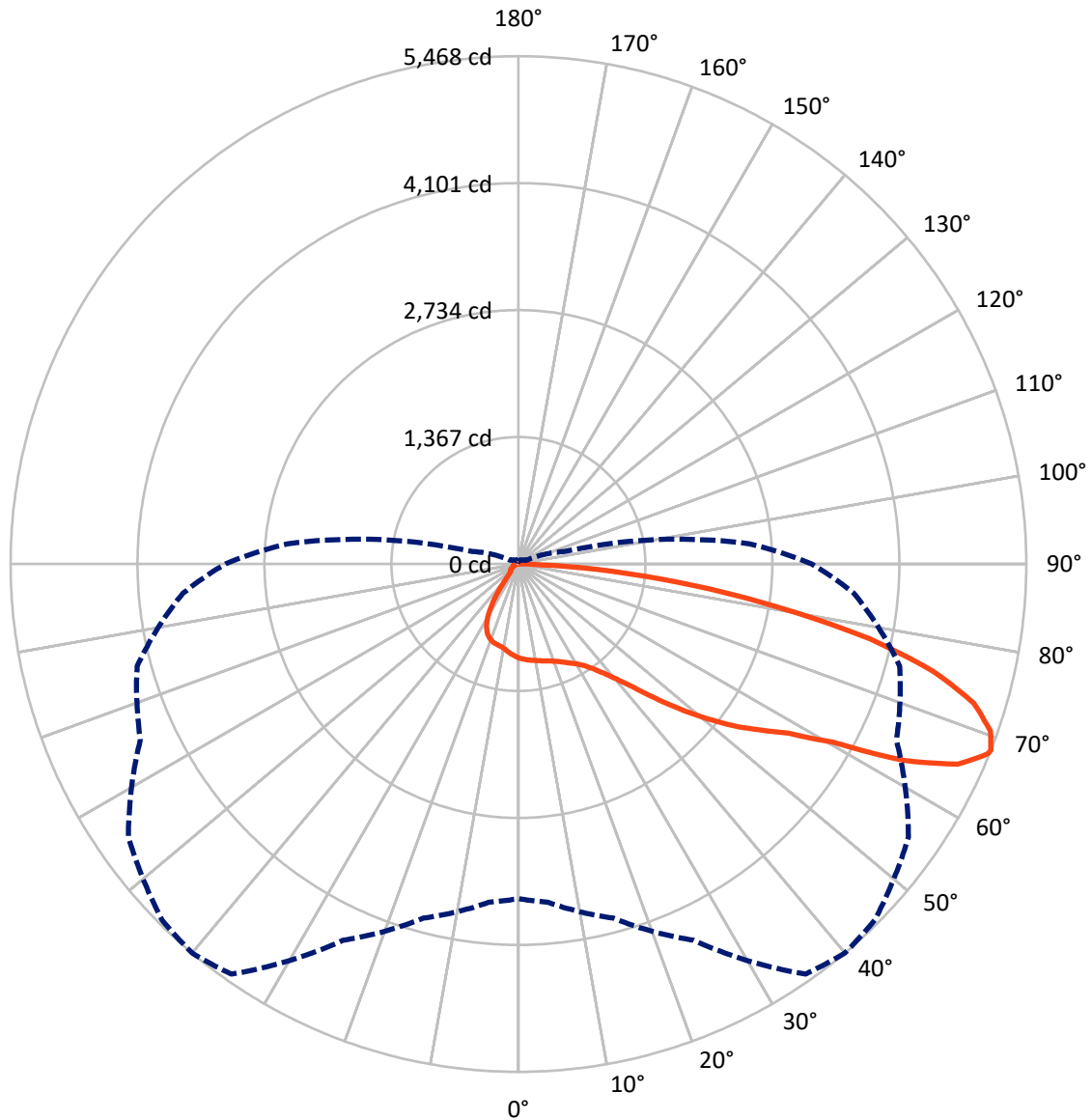
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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
House Side	Lumens	1479.0	0.0	1479.0
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	7638.0	0.0	7638.0
	% Fixture	83.8	0.0	83.8
Total	Lumens	9117.0	0.0	9117.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.1
10°-20°	287.9	3.2
20°-30°	483.1	5.3
30°-40°	715.5	7.8
40°-50°	1210.5	13.3
50°-60°	1847.4	20.3
60°-70°	2419.0	26.5
70°-80°	1739.1	19.1
80°-90°	318.4	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°	9117.0	100.0
0°-180°	9117.0	100.0



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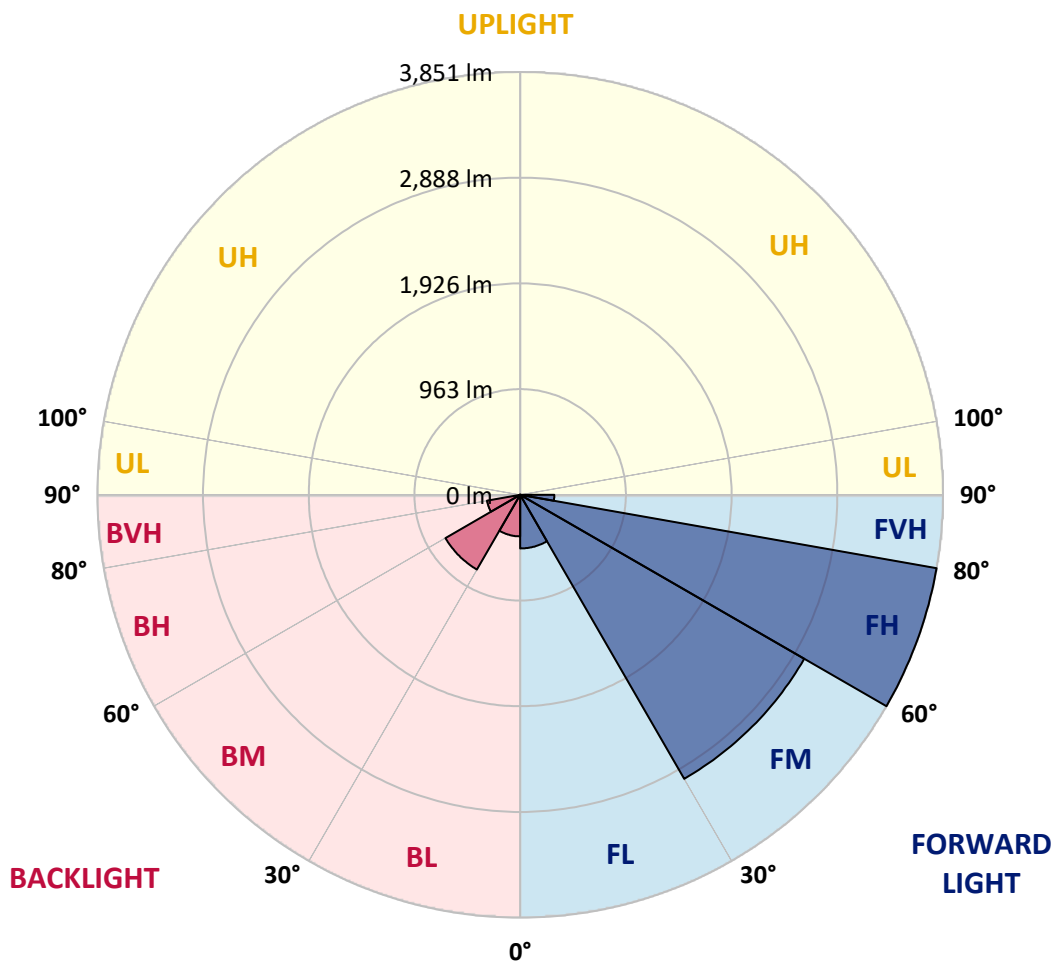
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.7	5.4			
FM	(30°-60°)	2987.4	32.8			
FH	(60°-80°)	3851.2	42.2			G2/5000
FVH	(80°-90°)	310.8	3.4			G3/500
BL	(0°-30°)	378.4	4.2	B1/500		
BM	(30°-60°)	786.1	8.6	B1/1000		
BH	(60°-80°)	306.9	3.4	B1/500		G1/500
BVH	(80°-90°)	7.6	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°	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1
2.5°	1045.1	1047.4	1044.4	1036.7	1028.3	1023.8	1023.0	1022.2	1018.4	1013.1	1005.4
5°	1055.8	1056.6	1053.5	1047.4	1039.8	1038.3	1036.0	1036.7	1034.5	1029.1	1020.7
7.5°	1060.4	1061.9	1058.1	1052.0	1045.9	1045.9	1045.1	1047.4	1045.9	1043.6	1033.7
10°	1058.9	1061.2	1058.9	1056.6	1054.3	1056.6	1055.1	1060.4	1061.2	1061.2	1049.7
12.5°	1056.6	1059.6	1060.4	1062.7	1066.5	1068.8	1071.9	1083.3	1088.7	1092.5	1083.3
15°	1058.9	1060.4	1066.5	1070.3	1078.0	1083.3	1090.2	1109.3	1118.4	1129.1	1124.5
17.5°	1068.8	1072.6	1081.8	1085.6	1093.2	1097.1	1105.5	1129.1	1147.4	1166.5	1169.6
20°	1090.2	1092.5	1107.7	1109.3	1113.1	1116.9	1126.1	1152.0	1179.5	1207.0	1214.6
22.5°	1113.8	1119.2	1133.7	1131.4	1139.0	1140.6	1149.0	1177.2	1215.4	1249.0	1265.8
25°	1138.3	1142.9	1157.4	1158.9	1168.1	1174.2	1184.1	1211.6	1260.4	1303.2	1333.0
27.5°	1158.9	1168.1	1181.8	1183.3	1200.9	1208.5	1223.0	1254.3	1313.1	1365.8	1414.6
30°	1197.1	1199.4	1212.3	1216.9	1240.6	1247.4	1264.2	1303.9	1375.7	1441.4	1517.7
32.5°	1244.4	1243.6	1255.8	1263.5	1292.5	1304.7	1326.1	1371.9	1451.3	1533.0	1641.4
35°	1331.4	1323.8	1331.4	1339.1	1372.7	1385.6	1408.5	1477.2	1570.4	1709.3	1842.9
37.5°	1531.4	1520.0	1504.0	1465.8	1474.2	1491.0	1524.6	1617.7	1755.1	2013.2	2142.2
40°	1878.0	1852.9	1785.7	1684.9	1625.3	1626.9	1658.2	1780.3	1981.9	2361.3	2458.3
42.5°	2191.8	2174.3	2093.3	1955.2	1817.7	1810.1	1820.8	1963.5	2229.2	2684.2	2734.6
45°	2487.3	2495.7	2378.1	2269.7	2105.5	2055.2	2042.2	2159.0	2503.3	2972.0	2976.6
47.5°	2760.6	2774.3	2632.3	2530.0	2368.2	2324.7	2284.2	2364.4	2762.1	3217.1	3179.7
50°	3054.5	3065.2	2868.2	2784.2	2648.3	2607.9	2577.3	2612.5	3027.0	3444.6	3360.6
52.5°	3460.6	3401.1	3153.7	3014.8	2894.2	2891.1	2867.5	2889.6	3328.6	3649.2	3498.0
55°	3940.1	3784.3	3521.7	3299.6	3144.6	3153.0	3124.7	3161.4	3627.1	3824.8	3625.5
57.5°	4109.6	4105.7	3983.6	3770.6	3456.1	3437.0	3388.1	3429.3	3885.1	3988.9	3715.6
60°	4344.7	4365.3	4379.0	4250.8	4069.1	3895.8	3732.4	3728.6	4125.6	4138.6	3759.9
62.5°	4496.6	4515.7	4622.6	4605.8	4718.0	4660.8	4474.5	4061.5	4309.6	4235.5	3776.7
65°	4212.6	4260.0	4529.4	4734.8	5117.3	5197.4	5170.7	4573.0	4434.8	4263.8	3745.4
67.5°	3698.8	3760.7	4056.1	4536.3	5364.6	5454.0	5405.1	5088.3	4489.0	4251.6	3659.1
68°	3602.6	3656.1	3946.2	4469.9	5389.8	5467.7	5423.4	5126.4	4491.3	4250.0	3626.3
70°	3140.0	3183.5	3466.7	4129.4	5319.6	5392.1	5386.0	5162.3	4471.4	4202.7	3405.7
72.5°	2436.1	2479.6	2730.8	3424.8	4995.1	5128.0	5122.6	5018.8	4434.8	3961.5	2855.2
75°	1761.2	1809.3	2038.4	2631.6	4322.6	4614.9	4673.7	4773.0	4053.8	3333.9	2031.5
77.5°	1271.9	1307.0	1504.7	1988.0	3530.9	3865.3	3984.4	4084.4	3317.9	2430.0	966.5
80°	848.2	873.4	1064.2	1478.0	2659.8	2856.8	2985.0	2817.8	1888.0	878.7	104.6
82.5°	522.2	538.2	688.6	1036.7	1839.9	1901.7	1902.5	1503.2	608.5	84.0	56.5
85°	280.2	285.5	374.1	565.7	971.8	1018.4	1000.1	631.4	122.9	45.0	30.5
87.5°	45.0	48.9	117.6	212.2	300.0	231.3	148.1	46.6	12.2	6.9	4.6
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°	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1	1013.1
2.5°	1009.3	1007.0	1000.9	997.8	990.2	992.5	992.5	986.4	989.4	1001.6	1000.1
5°	1018.4	1019.2	1004.7	997.0	980.2	975.7	968.8	959.6	958.9	967.3	968.0
7.5°	1026.1	1029.9	1009.3	994.0	971.1	955.1	941.3	925.3	921.5	926.8	926.8
10°	1038.3	1042.1	1016.1	994.8	961.2	935.2	911.5	890.9	882.5	882.5	883.3
12.5°	1070.3	1068.0	1038.3	1005.4	965.7	924.5	887.1	859.6	839.8	839.0	836.0
15°	1114.6	1106.2	1077.2	1027.6	976.4	923.8	871.8	829.1	794.7	785.6	781.8
17.5°	1161.9	1151.3	1116.1	1055.8	993.2	923.0	854.3	794.7	737.5	715.3	708.5
20°	1213.1	1200.1	1164.2	1088.7	1010.0	917.6	828.3	745.1	667.2	625.3	614.6
22.5°	1269.6	1258.9	1215.4	1122.2	1021.5	906.2	787.9	682.5	583.3	523.0	518.4
25°	1342.9	1333.0	1268.8	1152.0	1022.2	884.8	734.4	602.3	477.9	406.9	392.4
27.5°	1430.7	1413.1	1311.6	1170.3	1010.0	847.4	664.9	495.5	355.0	295.4	293.9
30°	1526.1	1494.0	1345.9	1174.9	982.5	787.9	569.5	364.2	251.9	211.5	211.5
32.5°	1638.3	1579.5	1381.0	1167.3	937.5	705.4	435.9	252.7	173.3	154.2	154.2
35°	1802.5	1711.6	1426.1	1148.2	874.1	591.7	310.0	167.2	136.7	134.4	134.4
37.5°	2062.0	1910.9	1487.2	1116.1	787.1	451.2	201.5	129.0	130.5	130.5	129.8
40°	2338.4	2141.4	1571.1	1065.0	677.9	311.5	132.1	122.1	124.4	126.0	125.2
42.5°	2588.0	2360.5	1662.8	996.3	548.9	196.2	120.6	117.6	116.0	117.6	118.3
45°	2804.1	2550.6	1755.1	907.0	405.4	128.3	117.6	110.7	106.1	106.9	107.6
47.5°	2988.8	2700.3	1817.7	813.1	268.7	113.8	113.8	101.5	97.0	97.0	97.0
50°	3150.7	2833.1	1855.9	700.8	160.3	112.2	106.9	93.1	88.6	87.8	88.6
52.5°	3268.3	2926.2	1851.3	564.2	107.6	108.4	97.7	85.5	80.2	81.7	82.5
55°	3361.4	2985.0	1810.9	413.0	100.8	101.5	90.8	77.1	73.3	74.1	74.1
57.5°	3420.2	2999.5	1728.4	268.7	98.5	90.8	81.7	68.7	64.1	64.1	64.1
60°	3439.3	2991.9	1616.2	171.8	97.7	81.7	74.1	61.8	57.3	57.3	57.3
62.5°	3423.2	2947.6	1426.1	123.7	90.8	76.3	67.2	55.0	50.4	48.9	48.9
65°	3366.0	2829.3	1099.3	102.3	81.7	70.2	61.1	49.6	43.5	41.2	40.5
67.5°	3198.8	2572.8	639.8	96.2	74.1	64.1	56.5	45.0	38.2	34.4	33.6
68°	3155.3	2496.4	526.0	95.4	74.1	63.4	55.7	43.5	36.6	32.8	32.1
70°	2843.8	2013.9	151.2	90.8	72.5	61.1	51.1	39.7	32.8	28.2	27.5
72.5°	2141.4	1180.3	94.7	80.9	71.8	54.2	49.6	39.7	29.0	24.4	22.9
75°	1195.5	268.7	80.2	60.3	67.2	53.4	48.9	35.9	26.0	19.8	19.1
77.5°	245.8	77.9	68.7	42.0	51.1	46.6	41.2	30.5	23.7	15.3	14.5
80°	69.5	58.0	61.1	30.5	29.0	32.8	30.5	26.7	17.6	11.5	11.5
82.5°	45.0	42.8	55.0	20.6	15.3	15.3	19.8	16.0	15.3	9.2	9.2
85°	27.5	35.9	26.7	9.2	7.6	6.1	6.9	6.9	9.2	6.1	6.1
87.5°	3.8	3.8	3.8	3.8	3.8	3.1	2.3	2.3	2.3	3.1	3.1
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)