

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: P233588

Luminaire Tested: **VERD-C01H-D-U-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01H-D-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1210mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8766 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

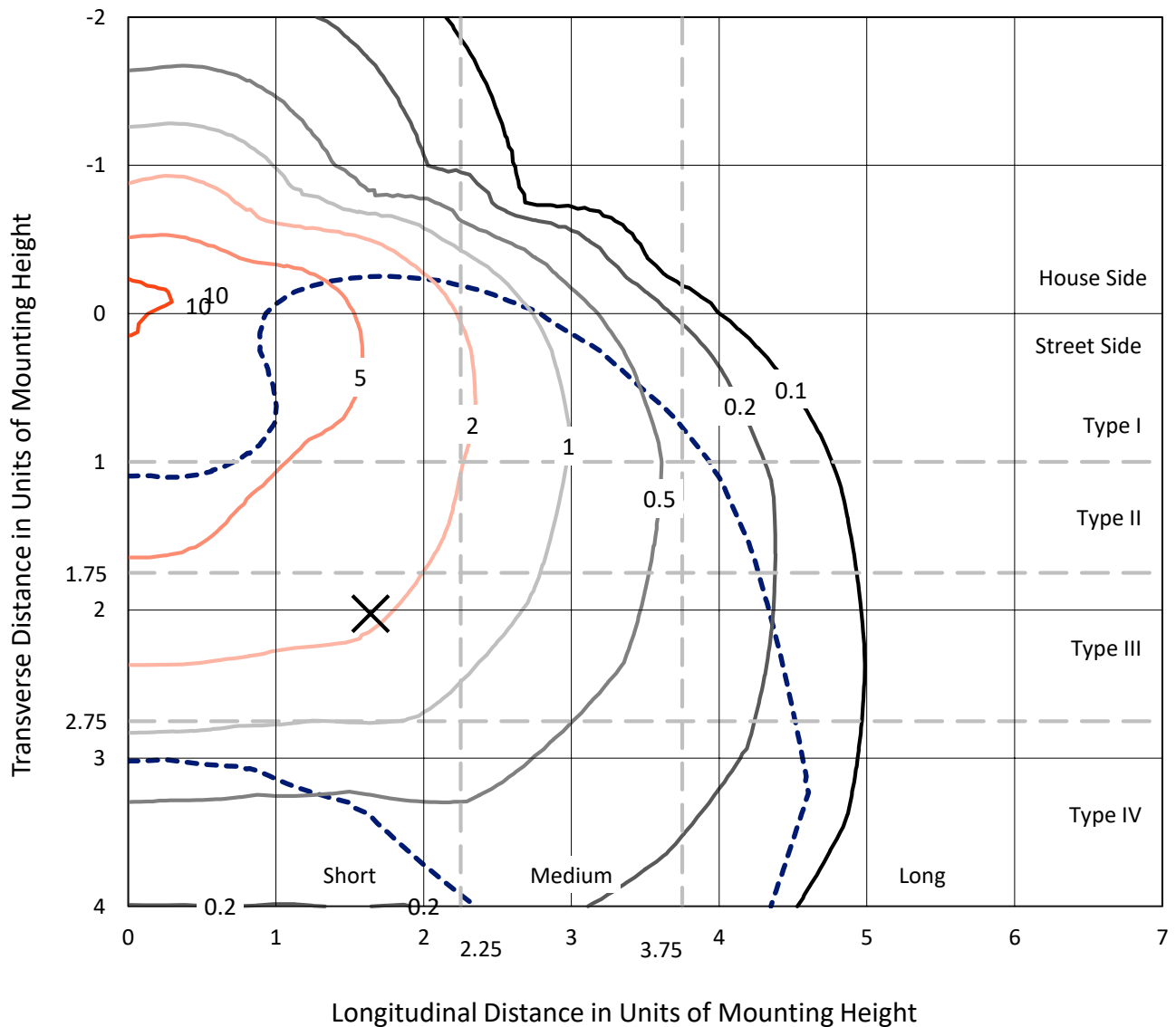
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

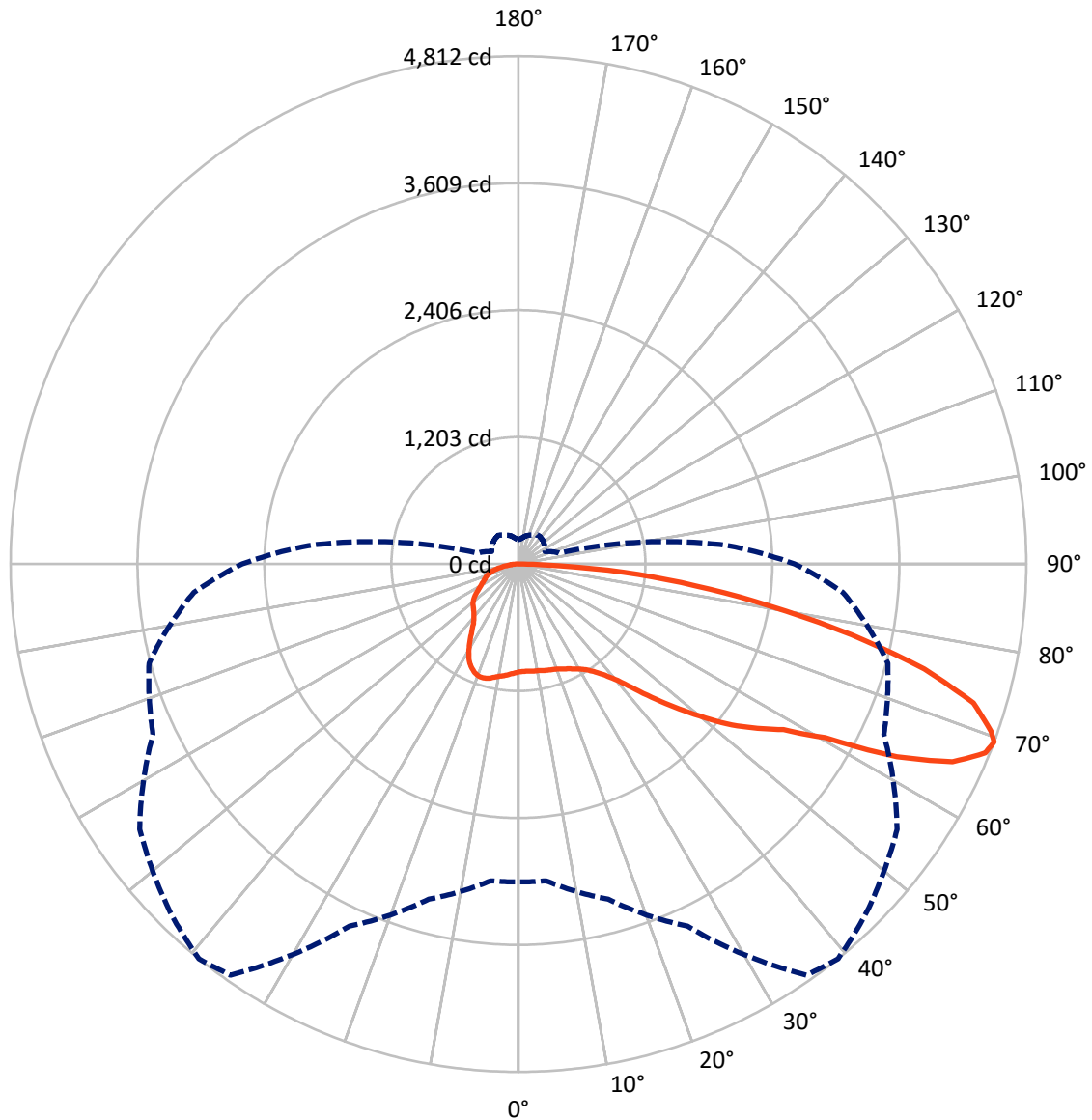
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2054.9	0.0	2054.9
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6711.1	0.0	6711.1
	% Fixture	76.6	0.0	76.6
Total	Lumens	8766.0	0.0	8766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	1.1
10°-20°	306.7	3.5
20°-30°	516.3	5.9
30°-40°	748.0	8.5
40°-50°	1209.0	13.8
50°-60°	1770.0	20.2
60°-70°	2215.4	25.3
70°-80°	1583.8	18.1
80°-90°	317.5	3.6
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°	8766.0	100.0
0°-180°	8766.0	100.0



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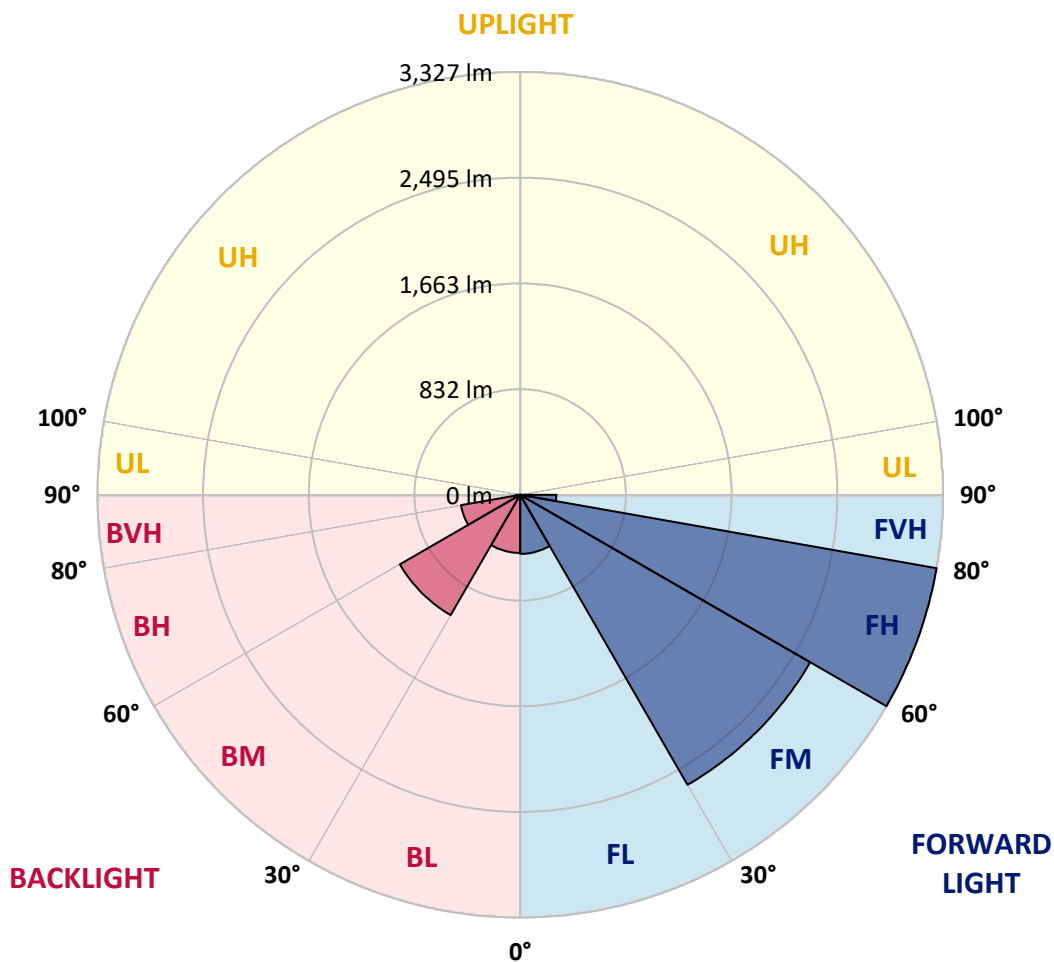
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.0	5.3			
FM	(30°-60°)	2634.3	30.1			
FH	(60°-80°)	3326.6	37.9			G2/5000
FVH	(80°-90°)	285.1	3.3			G3/500
BL	(0°-30°)	457.1	5.2	B1/500		
BM	(30°-60°)	1092.8	12.5	B2/2500		
BH	(60°-80°)	472.6	5.4	B1/500		G1/500
BVH	(80°-90°)	32.5	0.4			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°	39°	45°	55°	65°	75°	85°
0°	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1038.8	1037.2	1034.0	1021.1	1019.5	1018.6	1020.3	1015.4	1014.6	1016.2	1014.6
5°	1039.6	1038.0	1034.0	1022.7	1021.1	1019.5	1020.3	1016.2	1017.0	1021.1	1021.1
7.5°	1041.3	1039.6	1035.6	1023.5	1026.7	1025.1	1028.3	1022.7	1022.7	1025.9	1026.7
10°	1037.2	1036.4	1034.0	1025.1	1030.0	1026.7	1030.0	1030.8	1034.0	1036.4	1035.6
12.5°	1026.7	1026.7	1026.7	1022.7	1036.4	1035.6	1041.3	1046.9	1055.0	1059.0	1061.5
15°	1020.3	1019.5	1025.1	1024.3	1041.3	1043.7	1053.4	1067.9	1080.0	1090.5	1093.8
17.5°	1026.7	1026.7	1034.0	1032.4	1049.3	1051.0	1061.5	1082.5	1102.7	1122.9	1131.7
20°	1034.0	1034.8	1043.7	1046.1	1062.3	1061.5	1072.0	1097.8	1125.3	1155.2	1170.5
22.5°	1056.6	1055.8	1063.1	1058.2	1076.8	1080.0	1088.9	1111.5	1150.3	1188.3	1213.3
25°	1073.6	1076.0	1083.3	1080.0	1095.4	1099.4	1114.0	1135.8	1181.8	1227.1	1271.5
27.5°	1089.7	1094.6	1100.2	1099.4	1120.4	1125.3	1136.6	1170.5	1223.8	1278.0	1340.2
30°	1114.0	1112.4	1116.4	1123.7	1151.1	1154.4	1168.1	1209.3	1273.9	1344.2	1427.4
32.5°	1146.3	1144.7	1148.7	1155.2	1188.3	1196.4	1214.9	1259.4	1341.0	1425.8	1527.6
35°	1197.2	1201.2	1204.4	1212.5	1244.8	1256.1	1281.2	1337.7	1432.2	1568.0	1713.4
37.5°	1374.1	1365.2	1347.4	1315.1	1324.0	1336.9	1372.5	1453.2	1590.6	1820.8	1954.1
40°	1650.4	1639.8	1584.1	1489.6	1446.8	1450.0	1484.8	1594.6	1782.0	2118.1	2240.9
42.5°	1910.5	1897.5	1831.3	1713.4	1628.5	1618.8	1622.1	1748.9	1992.1	2415.3	2480.8
45°	2156.0	2162.5	2061.5	1971.1	1874.1	1829.7	1816.0	1910.5	2225.5	2673.0	2693.2
47.5°	2391.1	2396.0	2282.1	2194.8	2101.1	2049.4	2022.8	2096.3	2440.4	2881.4	2862.9
50°	2631.0	2644.0	2488.0	2413.7	2327.3	2290.1	2264.3	2312.8	2677.9	3081.0	3023.6
52.5°	2969.5	2915.4	2711.0	2606.0	2544.6	2533.3	2506.6	2546.2	2929.9	3257.1	3137.5
55°	3345.9	3230.4	3015.5	2832.2	2747.4	2747.4	2723.9	2770.0	3190.0	3388.8	3230.4
57.5°	3467.9	3479.2	3404.9	3205.4	2977.6	2959.8	2937.2	3000.2	3413.0	3506.7	3265.2
60°	3681.2	3712.7	3770.0	3603.6	3491.3	3340.3	3203.0	3236.9	3605.2	3603.6	3302.3
62.5°	3787.0	3816.9	3996.2	3906.6	4012.4	4022.9	3766.0	3504.3	3747.4	3652.1	3320.1
65°	3686.8	3707.8	3946.9	4064.9	4371.9	4518.1	4391.2	3863.7	3822.5	3631.9	3253.8
67.5°	3358.1	3397.6	3595.6	3955.0	4692.6	4774.1	4655.4	4357.3	3854.9	3638.4	3200.5
69°	3012.3	3013.1	3287.8	3786.2	4755.6	4812.1	4666.7	4380.7	3820.9	3623.0	3086.6
70°	2817.6	2837.8	3041.4	3640.0	4732.1	4750.7	4639.2	4379.9	3797.5	3618.2	2978.4
72.5°	2198.9	2188.4	2391.1	3043.8	4467.2	4508.4	4385.6	4256.3	3778.1	3409.8	2519.6
75°	1537.3	1569.6	1768.3	2306.3	3849.2	3972.8	3972.8	4089.1	3477.6	2913.8	1821.6
77.5°	1143.9	1148.7	1307.8	1761.8	3097.1	3225.6	3343.5	3441.3	2718.3	1996.1	814.3
80°	774.7	782.0	927.4	1299.8	2295.0	2412.9	2599.5	2367.7	1617.2	690.7	92.9
82.5°	487.9	497.6	613.1	912.8	1635.8	1689.1	1746.5	1336.9	538.8	80.0	59.0
85°	290.0	291.6	370.0	583.2	997.6	1000.9	939.5	615.5	144.6	47.7	37.2
87.5°	121.2	127.6	161.6	258.5	292.4	231.0	143.8	49.3	21.8	19.4	12.9
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°	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1009.8	1018.6	1017.0	1019.5	1022.7	1029.1	1036.4	1033.2	1037.2	1046.1	1046.1
5°	1018.6	1025.9	1028.3	1033.2	1037.2	1043.7	1048.5	1046.9	1055.8	1068.7	1068.7
7.5°	1025.9	1031.6	1039.6	1045.3	1049.3	1062.3	1067.1	1063.9	1070.3	1085.7	1086.5
10°	1036.4	1042.1	1054.2	1059.8	1067.9	1074.4	1080.8	1080.0	1086.5	1100.2	1102.7
12.5°	1062.3	1066.3	1083.3	1091.3	1091.3	1099.4	1094.6	1086.5	1089.7	1097.8	1099.4
15°	1096.2	1101.8	1123.7	1127.7	1123.7	1125.3	1114.0	1088.1	1075.2	1077.6	1078.4
17.5°	1135.0	1144.7	1169.7	1164.1	1159.2	1147.1	1118.0	1079.2	1040.5	1025.9	1028.3
20°	1176.2	1188.3	1217.4	1205.2	1187.5	1156.0	1109.1	1042.9	983.1	948.4	946.8
22.5°	1223.8	1239.2	1266.6	1245.6	1206.1	1151.1	1079.2	998.5	922.5	868.4	865.2
25°	1289.3	1306.2	1315.9	1273.9	1209.3	1133.4	1036.4	937.9	842.5	777.9	773.1
27.5°	1363.6	1372.5	1353.1	1290.1	1193.9	1095.4	983.1	861.1	756.1	702.8	695.5
30°	1446.0	1438.7	1378.1	1282.0	1154.4	1035.6	899.9	763.4	679.4	636.6	630.1
32.5°	1541.3	1518.7	1397.5	1259.4	1101.8	957.3	809.4	701.2	634.1	591.3	588.1
35°	1698.0	1633.4	1429.0	1224.6	1032.4	865.2	726.2	647.9	595.4	542.0	534.0
37.5°	1925.0	1803.0	1475.1	1192.3	957.3	776.3	663.2	605.0	559.0	499.2	487.9
40°	2160.9	2002.6	1551.0	1156.8	887.0	710.9	628.5	587.3	542.0	485.5	470.1
42.5°	2376.6	2192.4	1639.8	1112.4	813.5	658.4	611.5	582.4	537.2	483.9	471.8
45°	2572.1	2370.9	1731.1	1061.5	732.7	616.4	597.8	573.5	527.5	476.6	466.9
47.5°	2736.9	2522.8	1823.2	1002.5	655.1	590.5	583.2	557.4	514.6	465.3	457.2
50°	2873.4	2631.8	1875.7	940.3	591.3	571.1	562.2	529.9	486.3	440.3	435.4
52.5°	2974.3	2699.7	1923.4	907.2	541.2	539.6	534.0	502.5	460.5	412.8	403.1
55°	3044.6	2755.4	1902.4	881.3	487.9	500.0	496.8	477.4	441.9	386.1	378.1
57.5°	3048.7	2760.3	1857.1	727.8	435.4	452.4	458.0	461.3	421.7	372.4	362.7
60°	3044.6	2724.7	1773.1	534.0	384.5	404.7	425.7	425.7	398.2	349.8	342.5
62.5°	3026.0	2654.5	1577.6	380.5	344.1	370.8	398.2	386.1	362.7	323.9	316.7
65°	2941.2	2537.3	1234.3	310.2	327.2	351.4	364.3	347.4	317.5	277.1	273.8
67.5°	2786.9	2269.1	714.1	284.3	312.6	334.4	344.9	319.1	290.8	252.0	250.4
69°	2617.3	1997.7	402.3	277.9	303.7	323.1	332.0	303.7	276.3	239.1	231.8
70°	2465.4	1755.4	261.7	272.2	294.8	315.9	322.3	293.2	267.4	229.4	224.6
72.5°	1867.7	1057.4	176.1	248.8	270.6	286.8	296.5	269.0	239.9	202.0	192.3
75°	1020.3	287.6	155.1	213.3	240.7	262.5	265.0	230.2	188.2	149.4	145.4
77.5°	198.7	98.6	133.3	176.1	191.5	217.3	215.7	192.3	163.2	126.8	122.0
80°	75.1	71.1	111.5	126.0	134.9	162.4	172.1	155.1	135.7	86.4	74.3
82.5°	50.9	52.5	83.2	74.3	82.4	96.1	121.2	117.9	107.4	59.0	52.5
85°	35.5	41.2	46.0	31.5	40.4	60.6	80.0	77.5	66.2	41.2	37.2
87.5°	10.5	11.3	12.9	16.2	25.0	45.2	65.4	54.1	36.4	30.7	26.7
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)