

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: P233591

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233591
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-C029-D-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1030mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10001 lumens
Efficiency: N/A
Efficacy: 123.5 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

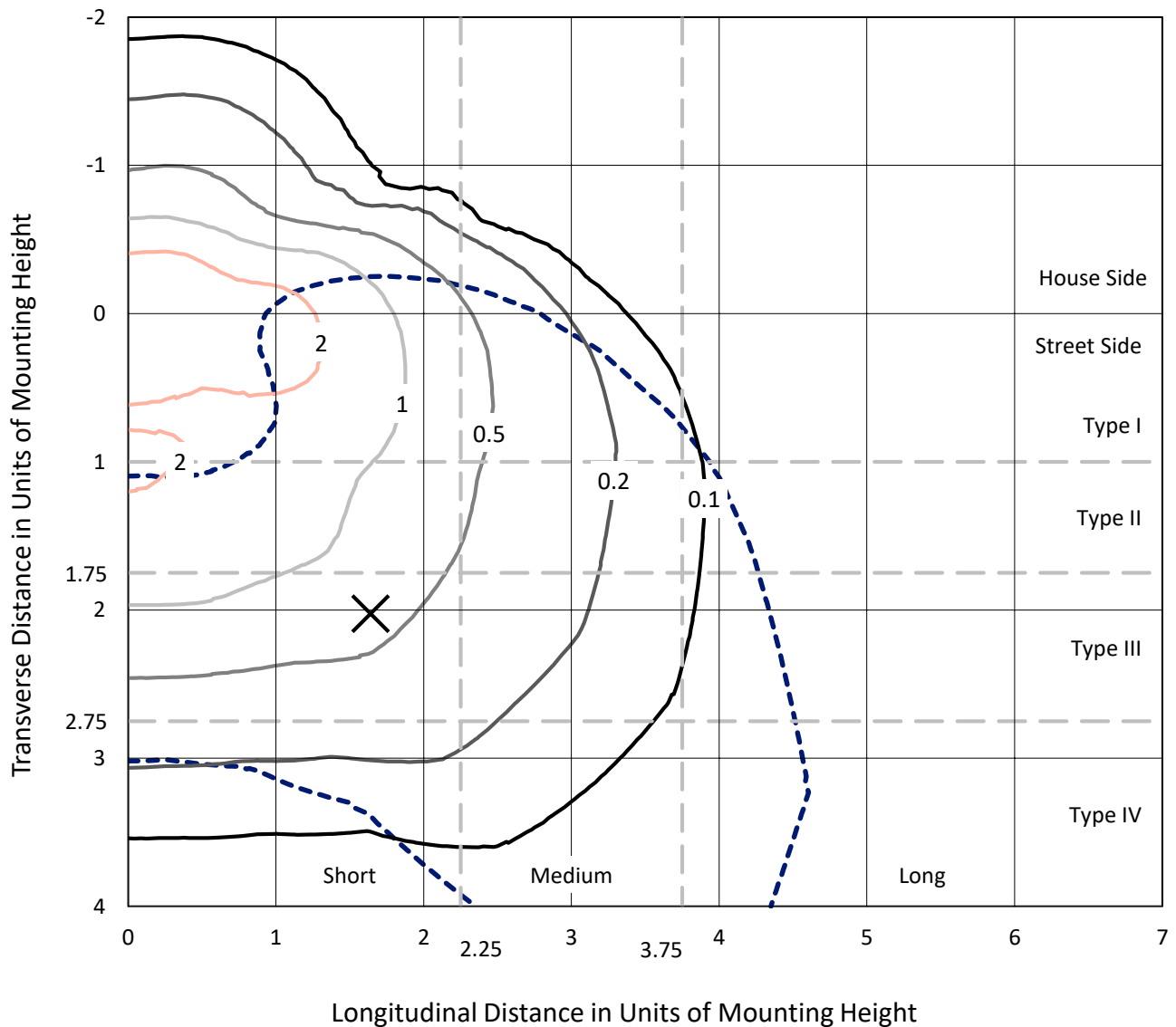
Input Watts (W): 81
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

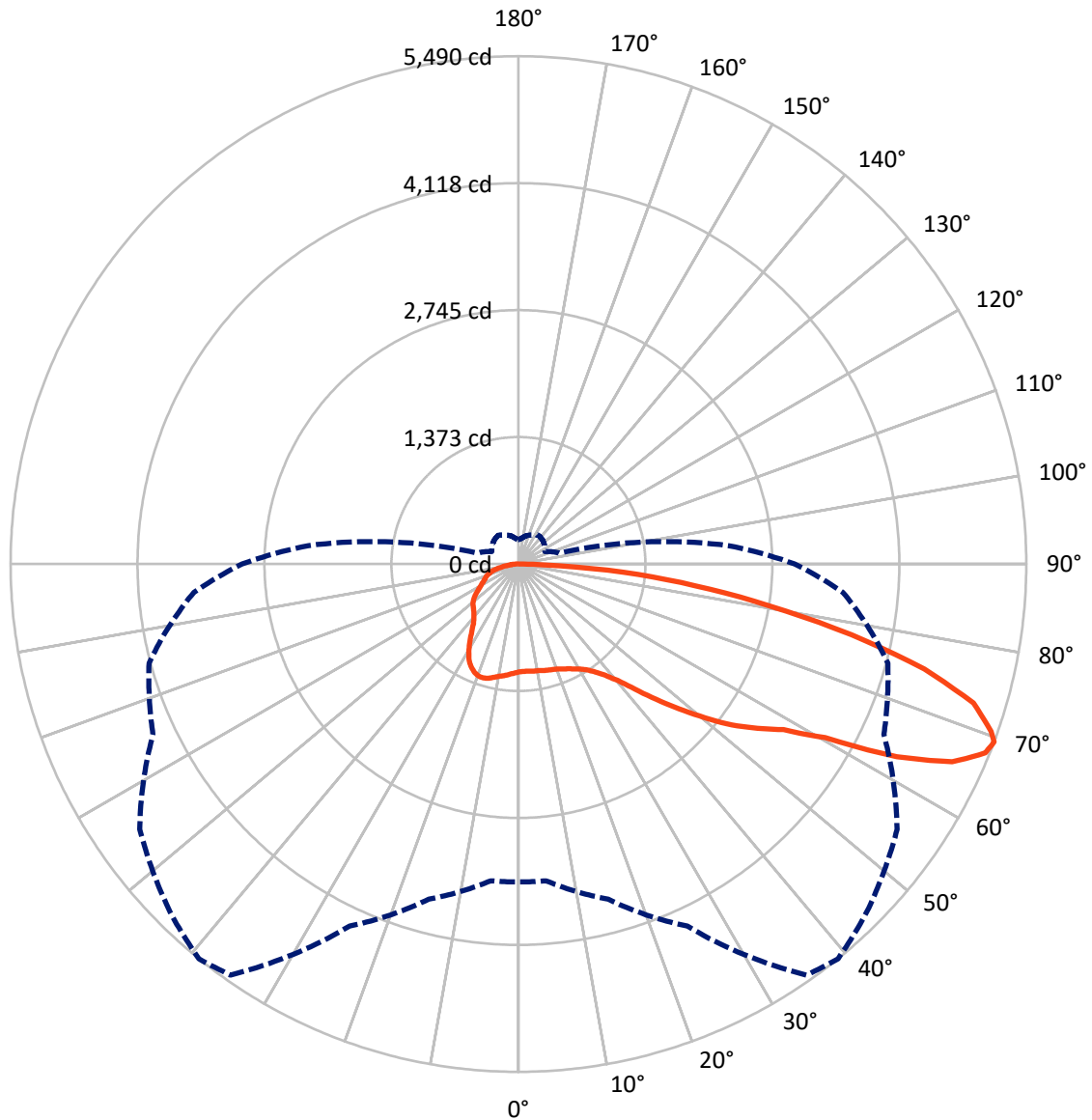


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Non-Cutoff

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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	2344.4	0.0	2344.4
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7656.6	0.0	7656.6
	% Fixture	76.6	0.0	76.6
Total	Lumens	10001.0	0.0	10001.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.1
10°-20°	349.9	3.5
20°-30°	589.0	5.9
30°-40°	853.3	8.5
40°-50°	1379.4	13.8
50°-60°	2019.4	20.2
60°-70°	2527.6	25.3
70°-80°	1806.9	18.1
80°-90°	362.3	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°	10001.0	100.0
0°-180°	10001.0	100.0



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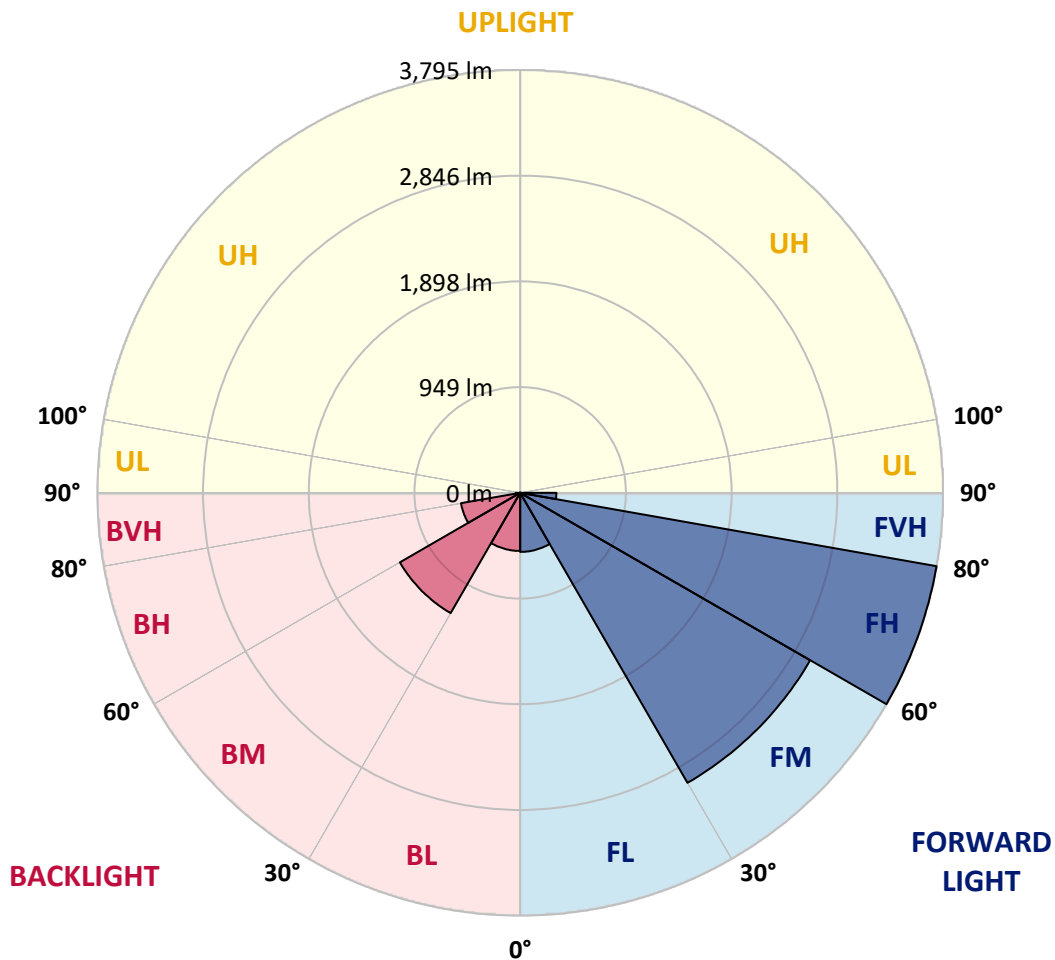
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.6	5.3			
FM	(30°-60°)	3005.4	30.1			
FH	(60°-80°)	3795.3	37.9			G2/5000
FVH	(80°-90°)	325.3	3.3			G3/500
BL	(0°-30°)	521.5	5.2	B2/1000		
BM	(30°-60°)	1246.7	12.5	B2/2500		
BH	(60°-80°)	539.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	37.0	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°	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1185.2	1183.4	1179.7	1164.9	1163.1	1162.2	1164.0	1158.5	1157.5	1159.4	1157.5
5°	1186.1	1184.3	1179.7	1166.8	1164.9	1163.1	1164.0	1159.4	1160.3	1164.9	1164.9
7.5°	1188.0	1186.1	1181.5	1167.7	1171.4	1169.5	1173.2	1166.8	1166.8	1170.5	1171.4
10°	1183.4	1182.4	1179.7	1169.5	1175.1	1171.4	1175.1	1176.0	1179.7	1182.4	1181.5
12.5°	1171.4	1171.4	1171.4	1166.8	1182.4	1181.5	1188.0	1194.4	1203.6	1208.2	1211.0
15°	1164.0	1163.1	1169.5	1168.6	1188.0	1190.7	1201.8	1218.4	1232.2	1244.2	1247.9
17.5°	1171.4	1171.4	1179.7	1177.8	1197.2	1199.0	1211.0	1235.0	1258.0	1281.0	1291.2
20°	1179.7	1180.6	1190.7	1193.5	1211.9	1211.0	1223.0	1252.5	1283.8	1317.9	1335.4
22.5°	1205.5	1204.6	1212.8	1207.3	1228.5	1232.2	1242.3	1268.1	1312.4	1355.7	1384.3
25°	1224.8	1227.6	1235.9	1232.2	1249.7	1254.3	1270.9	1295.8	1348.3	1399.9	1450.6
27.5°	1243.3	1248.8	1255.2	1254.3	1278.3	1283.8	1296.7	1335.4	1396.2	1458.0	1529.0
30°	1270.9	1269.1	1273.7	1282.0	1313.3	1317.0	1332.7	1379.7	1453.4	1533.6	1628.5
32.5°	1307.8	1305.9	1310.5	1317.9	1355.7	1364.9	1386.1	1436.8	1529.9	1626.7	1742.8
35°	1365.8	1370.4	1374.1	1383.3	1420.2	1433.1	1461.7	1526.2	1634.0	1788.9	1954.7
37.5°	1567.7	1557.5	1537.3	1500.4	1510.5	1525.3	1565.8	1658.0	1814.7	2077.3	2229.4
40°	1882.9	1870.9	1807.3	1699.5	1650.6	1654.3	1693.9	1819.3	2033.1	2416.5	2556.6
42.5°	2179.6	2164.9	2089.3	1954.7	1858.0	1846.9	1850.6	1995.3	2272.7	2755.6	2830.3
45°	2459.8	2467.2	2352.0	2248.7	2138.1	2087.5	2071.8	2179.6	2539.1	3049.6	3072.7
47.5°	2728.0	2733.5	2603.6	2504.0	2397.1	2338.1	2307.7	2391.6	2784.2	3287.4	3266.2
50°	3001.7	3016.4	2838.6	2753.8	2655.2	2612.8	2583.3	2638.6	3055.2	3515.0	3449.6
52.5°	3387.9	3326.1	3092.9	2973.1	2903.1	2890.2	2859.8	2904.9	3342.7	3716.0	3579.6
55°	3817.3	3685.5	3440.4	3231.2	3134.4	3134.4	3107.7	3160.2	3639.5	3866.2	3685.5
57.5°	3956.5	3969.4	3884.6	3657.0	3397.1	3376.8	3351.0	3422.9	3893.8	4000.7	3725.2
60°	4199.8	4235.7	4301.2	4111.3	3983.2	3810.9	3654.2	3692.9	4113.2	4111.3	3767.6
62.5°	4320.5	4354.6	4559.2	4456.9	4577.7	4589.6	4296.6	3998.0	4275.4	4166.6	3787.8
65°	4206.3	4230.2	4503.0	4637.6	4987.8	5154.6	5009.9	4408.1	4361.1	4143.6	3712.3
67.5°	3831.2	3876.3	4102.1	4512.2	5353.7	5446.7	5311.3	4971.2	4398.0	4151.0	3651.4
69°	3436.7	3437.6	3751.0	4319.6	5425.6	5490.1	5324.2	4997.9	4359.2	4133.4	3521.5
70°	3214.6	3237.6	3469.9	4152.8	5398.8	5420.0	5292.8	4997.0	4332.5	4127.9	3398.0
72.5°	2508.6	2496.7	2728.0	3472.6	5096.5	5143.5	5003.5	4856.0	4310.4	3890.1	2874.5
75°	1753.8	1790.7	2017.4	2631.2	4391.5	4532.5	4532.5	4665.2	3967.6	3324.3	2078.2
77.5°	1305.0	1310.5	1492.1	2010.0	3533.5	3680.0	3814.6	3926.1	3101.2	2277.3	929.0
80°	883.8	892.1	1058.0	1482.9	2618.3	2752.9	2965.8	2701.3	1845.1	788.0	106.0
82.5°	556.7	567.7	699.5	1041.4	1866.3	1927.1	1992.5	1525.3	614.7	91.2	67.3
85°	330.9	332.7	422.1	665.4	1138.2	1141.9	1071.8	702.3	165.0	54.4	42.4
87.5°	138.2	145.6	184.3	294.9	333.6	263.6	164.0	56.2	24.9	22.1	14.7
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°	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1152.0	1162.2	1160.3	1163.1	1166.8	1174.1	1182.4	1178.7	1183.4	1193.5	1193.5
5°	1162.2	1170.5	1173.2	1178.7	1183.4	1190.7	1196.3	1194.4	1204.6	1219.3	1219.3
7.5°	1170.5	1176.9	1186.1	1192.6	1197.2	1211.9	1217.5	1213.8	1221.1	1238.7	1239.6
10°	1182.4	1188.9	1202.7	1209.2	1218.4	1225.7	1233.1	1232.2	1239.6	1255.2	1258.0
12.5°	1211.9	1216.5	1235.9	1245.1	1245.1	1254.3	1248.8	1239.6	1243.3	1252.5	1254.3
15°	1250.6	1257.1	1282.0	1286.6	1282.0	1283.8	1270.9	1241.4	1226.7	1229.4	1230.4
17.5°	1294.9	1305.9	1334.5	1328.0	1322.5	1308.7	1275.5	1231.3	1187.0	1170.5	1173.2
20°	1341.9	1355.7	1388.9	1375.1	1354.8	1318.8	1265.4	1189.8	1121.6	1082.0	1080.1
22.5°	1396.2	1413.8	1445.1	1421.1	1376.0	1313.3	1231.3	1139.1	1052.5	990.7	987.1
25°	1470.9	1490.3	1501.3	1453.4	1379.7	1293.0	1182.4	1070.0	961.2	887.5	882.0
27.5°	1555.7	1565.8	1543.7	1471.8	1362.1	1249.7	1121.6	982.4	862.6	801.8	793.5
30°	1649.7	1641.4	1572.3	1462.6	1317.0	1181.5	1026.7	870.9	775.1	726.2	718.9
32.5°	1758.4	1732.6	1594.4	1436.8	1257.1	1092.1	923.5	800.0	723.5	674.6	670.9
35°	1937.2	1863.5	1630.3	1397.2	1177.8	987.1	828.5	739.1	679.2	618.4	609.2
37.5°	2196.2	2057.0	1682.9	1360.3	1092.1	885.7	756.6	690.3	637.8	569.6	556.7
40°	2465.3	2284.7	1769.5	1319.8	1011.9	811.0	717.0	670.0	618.4	553.9	536.4
42.5°	2711.4	2501.3	1870.9	1269.1	928.1	751.1	697.7	664.5	612.9	552.0	538.2
45°	2934.4	2704.9	1975.0	1211.0	835.9	703.2	682.0	654.3	601.8	543.8	532.7
47.5°	3122.4	2878.2	2080.1	1143.7	747.4	673.7	665.4	635.9	587.1	530.9	521.6
50°	3278.2	3002.6	2140.0	1072.8	674.6	651.6	641.4	604.6	554.8	502.3	496.8
52.5°	3393.4	3080.0	2194.4	1035.0	617.5	615.6	609.2	573.2	525.3	470.9	459.9
55°	3473.6	3143.6	2170.4	1005.5	556.7	570.5	566.8	544.7	504.1	440.5	431.3
57.5°	3478.2	3149.2	2118.8	830.4	496.8	516.1	522.6	526.2	481.1	424.9	413.8
60°	3473.6	3108.6	2022.9	609.2	438.7	461.7	485.7	485.7	454.4	399.1	390.8
62.5°	3452.4	3028.4	1799.9	434.1	392.6	423.0	454.4	440.5	413.8	369.6	361.3
65°	3355.6	2894.8	1408.2	353.9	373.3	400.9	415.6	396.3	362.2	316.1	312.4
67.5°	3179.6	2588.8	814.7	324.4	356.7	381.5	393.5	364.0	331.8	287.5	285.7
69°	2986.0	2279.2	459.0	317.0	346.5	368.6	378.8	346.5	315.2	272.8	264.5
70°	2812.8	2002.7	298.6	310.6	336.4	360.4	367.7	334.5	305.1	261.7	256.2
72.5°	2130.8	1206.4	200.9	283.9	308.7	327.2	338.2	306.9	273.7	230.4	219.3
75°	1164.0	328.1	177.0	243.3	274.6	299.5	302.3	262.7	214.7	170.5	165.9
77.5°	226.7	112.4	152.1	200.9	218.4	247.9	246.1	219.3	186.2	144.7	139.2
80°	85.7	81.1	127.2	143.8	153.9	185.2	196.3	177.0	154.8	98.6	84.8
82.5°	58.1	59.9	94.9	84.8	94.0	109.7	138.2	134.6	122.6	67.3	59.9
85°	40.6	47.0	52.5	35.9	46.1	69.1	91.2	88.5	75.6	47.0	42.4
87.5°	12.0	12.9	14.7	18.4	28.6	51.6	74.7	61.7	41.5	35.0	30.4
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)