

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: P233578

Luminaire Tested: **VERD-C029-D-U-T4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233578
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-T4-7030
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1030mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9732 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): 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

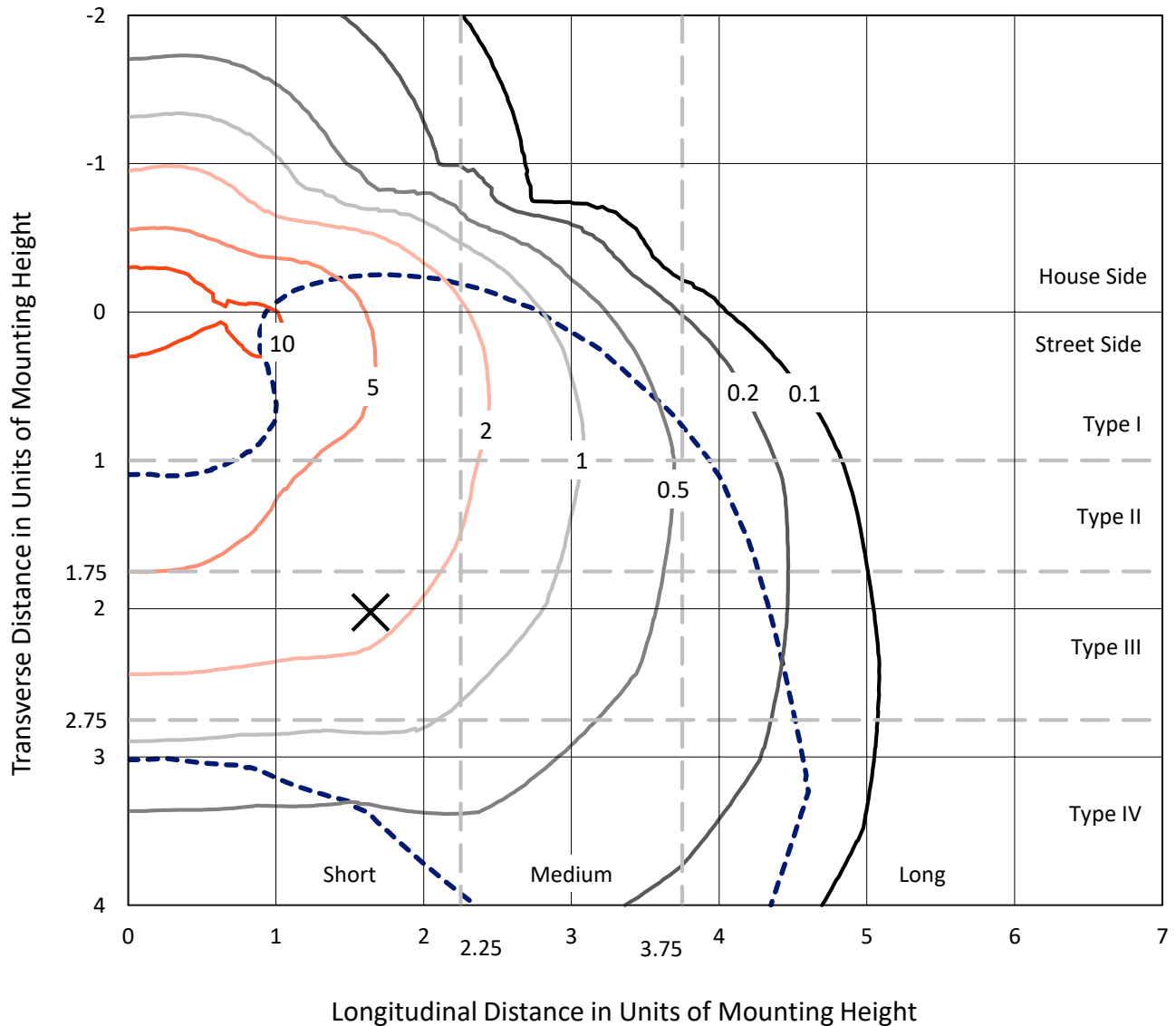


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

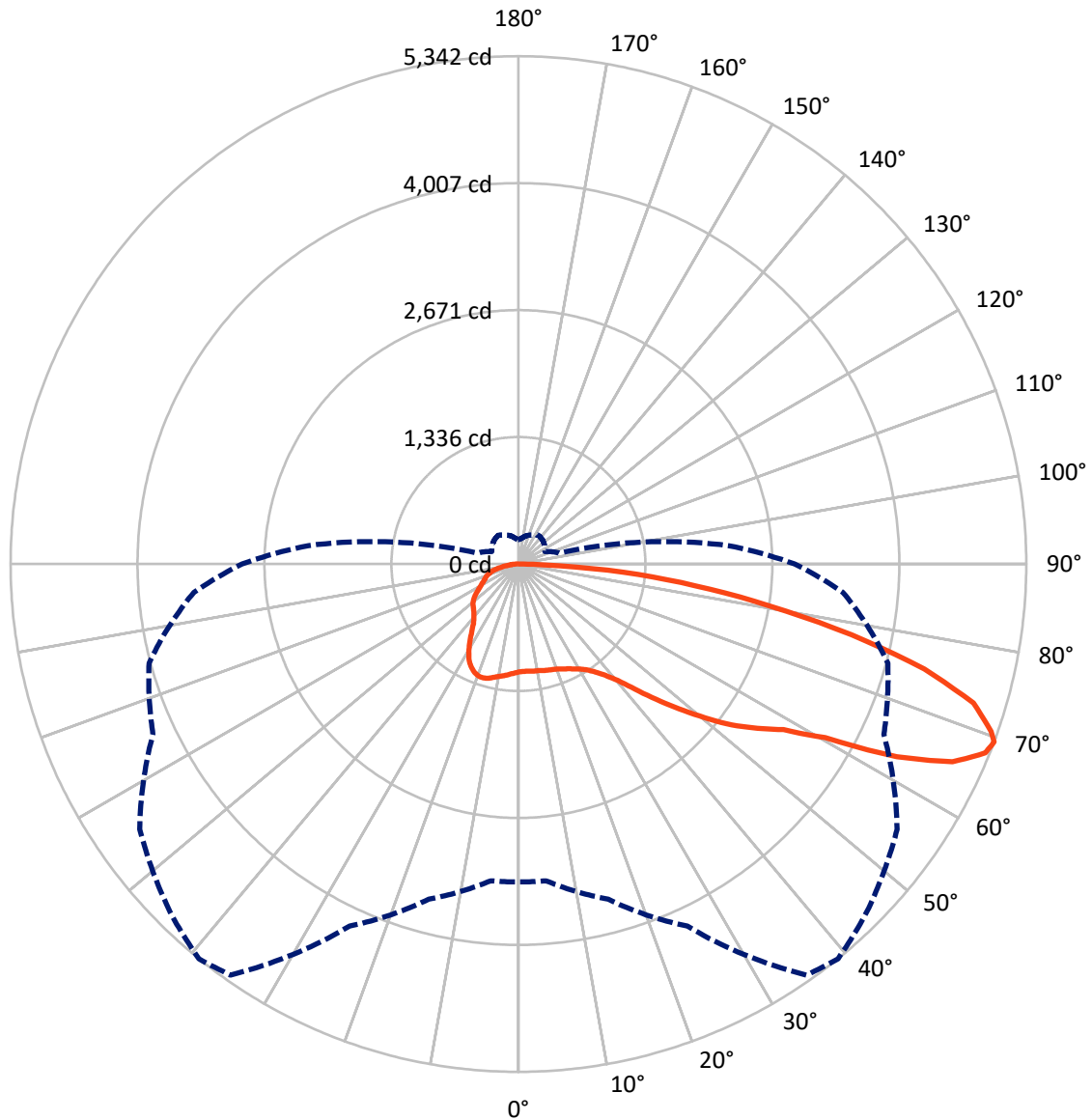


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Non-Cutoff

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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	2281.4	0.0	2281.4
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7450.6	0.0	7450.6
	% Fixture	76.6	0.0	76.6
Total	Lumens	9732.0	0.0	9732.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.1
10°-20°	340.5	3.5
20°-30°	573.2	5.9
30°-40°	830.4	8.5
40°-50°	1342.3	13.8
50°-60°	1965.1	20.2
60°-70°	2459.6	25.3
70°-80°	1758.3	18.1
80°-90°	352.5	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°	9732.0	100.0
0°-180°	9732.0	100.0



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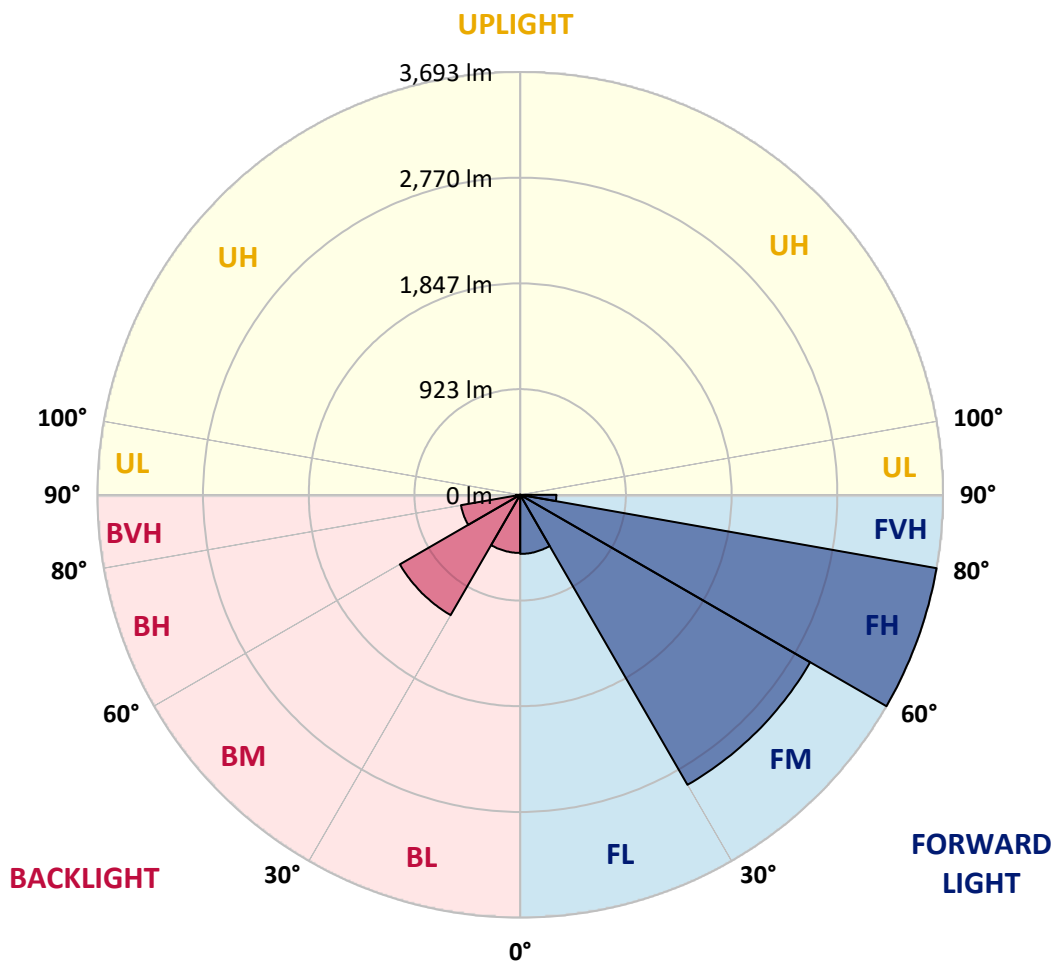
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.3	5.3			
FM (30°-60°)	2924.6	30.1			
FH (60°-80°)	3693.2	37.9			G2/5000
FVH (80°-90°)	316.5	3.3			G3/500
BL (0°-30°)	507.5	5.2	B2/1000		
BM (30°-60°)	1213.2	12.5	B2/2500		
BH (60°-80°)	524.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.0	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°	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6
2.5°	1153.3	1151.5	1147.9	1133.6	1131.8	1130.9	1132.7	1127.3	1126.4	1128.2	1126.4
5°	1154.2	1152.4	1147.9	1135.4	1133.6	1131.8	1132.7	1128.2	1129.1	1133.6	1133.6
7.5°	1156.0	1154.2	1149.7	1136.3	1139.9	1138.1	1141.7	1135.4	1135.4	1139.0	1139.9
10°	1151.5	1150.6	1147.9	1138.1	1143.5	1139.9	1143.5	1144.4	1147.9	1150.6	1149.7
12.5°	1139.9	1139.9	1139.9	1135.4	1150.6	1149.7	1156.0	1162.3	1171.3	1175.7	1178.4
15°	1132.7	1131.8	1138.1	1137.2	1156.0	1158.7	1169.5	1185.6	1199.1	1210.7	1214.3
17.5°	1139.9	1139.9	1147.9	1146.1	1165.0	1166.8	1178.4	1201.7	1224.2	1246.6	1256.5
20°	1147.9	1148.8	1158.7	1161.4	1179.3	1178.4	1190.1	1218.8	1249.3	1282.5	1299.5
22.5°	1173.0	1172.2	1180.2	1174.8	1195.5	1199.1	1208.9	1234.0	1277.1	1319.2	1347.0
25°	1191.9	1194.6	1202.6	1199.1	1216.1	1220.6	1236.7	1260.9	1312.1	1362.3	1411.6
27.5°	1209.8	1215.2	1221.5	1220.6	1243.9	1249.3	1261.8	1299.5	1358.7	1418.8	1487.8
30°	1236.7	1234.9	1239.4	1247.5	1278.0	1281.6	1296.8	1342.5	1414.3	1492.3	1584.7
32.5°	1272.6	1270.8	1275.3	1282.5	1319.2	1328.2	1348.8	1398.2	1488.7	1582.9	1695.9
35°	1329.1	1333.6	1337.2	1346.1	1382.0	1394.6	1422.4	1485.1	1590.1	1740.7	1902.2
37.5°	1525.5	1515.6	1495.9	1460.0	1469.9	1484.2	1523.7	1613.4	1765.9	2021.4	2169.4
40°	1832.2	1820.6	1758.7	1653.7	1606.2	1609.8	1648.4	1770.3	1978.4	2351.5	2487.8
42.5°	2121.0	2106.6	2033.1	1902.2	1808.0	1797.2	1800.8	1941.6	2211.6	2681.5	2754.2
45°	2393.6	2400.8	2288.7	2188.3	2080.6	2031.3	2016.1	2121.0	2470.8	2967.6	2990.0
47.5°	2654.6	2660.0	2533.5	2436.7	2332.6	2275.2	2245.7	2327.3	2709.3	3199.0	3178.4
50°	2921.0	2935.3	2762.2	2679.7	2583.8	2542.5	2513.8	2567.6	2973.0	3420.5	3356.8
52.5°	3296.7	3236.6	3009.8	2893.2	2825.0	2812.4	2782.9	2826.8	3252.8	3616.0	3483.3
55°	3714.7	3586.4	3347.9	3144.3	3050.1	3050.1	3024.1	3075.2	3541.6	3762.2	3586.4
57.5°	3850.1	3862.6	3780.1	3558.6	3305.7	3286.0	3260.9	3330.8	3789.1	3893.1	3625.0
60°	4086.8	4121.8	4185.5	4000.7	3876.1	3708.4	3555.9	3593.6	4002.5	4000.7	3666.2
62.5°	4204.3	4237.5	4436.6	4337.1	4454.5	4466.2	4181.0	3890.4	4160.4	4054.6	3686.0
65°	4093.1	4116.4	4381.9	4512.8	4853.6	5016.0	4875.2	4289.5	4243.8	4032.1	3612.4
67.5°	3728.1	3772.1	3991.8	4390.9	5209.7	5300.2	5168.4	4837.5	4279.7	4039.3	3553.2
69°	3344.3	3345.2	3650.1	4203.4	5279.6	5342.4	5181.0	4863.5	4242.0	4022.3	3426.8
70°	3128.1	3150.6	3376.6	4041.1	5253.6	5274.2	5150.5	4862.6	4216.0	4016.9	3306.6
72.5°	2441.2	2429.5	2654.6	3379.2	4959.5	5005.2	4868.9	4725.4	4194.5	3785.5	2797.2
75°	1706.7	1742.5	1963.2	2560.4	4273.4	4410.6	4410.6	4539.7	3860.8	3234.9	2022.3
77.5°	1269.9	1275.3	1452.0	1956.0	3438.4	3581.0	3712.0	3820.5	3017.8	2216.1	904.0
80°	860.1	868.1	1029.6	1443.0	2547.9	2678.8	2886.0	2628.6	1795.4	766.8	103.1
82.5°	541.7	552.4	680.7	1013.4	1816.1	1875.3	1938.9	1484.2	598.2	88.8	65.5
85°	322.0	323.8	410.7	647.5	1107.6	1111.2	1043.0	683.4	160.5	52.9	41.3
87.5°	134.5	141.7	179.4	287.0	324.7	256.5	159.6	54.7	24.2	21.5	14.3
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°	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6	1133.6
2.5°	1121.0	1130.9	1129.1	1131.8	1135.4	1142.6	1150.6	1147.0	1151.5	1161.4	1161.4
5°	1130.9	1139.0	1141.7	1147.0	1151.5	1158.7	1164.1	1162.3	1172.2	1186.5	1186.5
7.5°	1139.0	1145.2	1154.2	1160.5	1165.0	1179.3	1184.7	1181.1	1188.3	1205.3	1206.2
10°	1150.6	1156.9	1170.4	1176.6	1185.6	1192.8	1200.0	1199.1	1206.2	1221.5	1224.2
12.5°	1179.3	1183.8	1202.6	1211.6	1211.6	1220.6	1215.2	1206.2	1209.8	1218.8	1220.6
15°	1217.0	1223.3	1247.5	1252.0	1247.5	1249.3	1236.7	1208.0	1193.7	1196.4	1197.3
17.5°	1260.0	1270.8	1298.6	1292.3	1286.9	1273.5	1241.2	1198.2	1155.1	1139.0	1141.7
20°	1305.8	1319.2	1351.5	1338.1	1318.3	1283.4	1231.3	1157.8	1091.4	1052.9	1051.1
22.5°	1358.7	1375.7	1406.2	1382.9	1339.0	1278.0	1198.2	1108.5	1024.2	964.1	960.5
25°	1431.3	1450.2	1460.9	1414.3	1342.5	1258.2	1150.6	1041.2	935.4	863.6	858.3
27.5°	1513.8	1523.7	1502.2	1432.2	1325.5	1216.1	1091.4	956.0	839.4	780.2	772.2
30°	1605.3	1597.2	1530.0	1423.3	1281.6	1149.7	999.1	847.5	754.2	706.7	699.5
32.5°	1711.1	1686.0	1551.5	1398.2	1223.3	1062.7	898.6	778.4	704.0	656.5	652.9
35°	1885.1	1813.4	1586.5	1359.6	1146.1	960.5	806.2	719.3	661.0	601.8	592.8
37.5°	2137.1	2001.7	1637.6	1323.7	1062.7	861.9	736.3	671.7	620.6	554.2	541.7
40°	2399.0	2223.2	1721.9	1284.3	984.7	789.2	697.7	652.0	601.8	539.0	522.0
42.5°	2638.5	2434.0	1820.6	1234.9	903.1	730.9	678.9	646.6	596.4	537.2	523.7
45°	2855.5	2632.2	1921.9	1178.4	813.4	684.3	663.7	636.7	585.6	529.1	518.4
47.5°	3038.4	2800.8	2024.1	1113.0	727.3	655.6	647.5	618.8	571.3	516.6	507.6
50°	3190.0	2921.9	2082.4	1043.9	656.5	634.1	624.2	588.3	539.9	488.8	483.4
52.5°	3302.1	2997.2	2135.3	1007.1	600.9	599.1	592.8	557.8	511.2	458.3	447.5
55°	3380.1	3059.1	2112.0	978.4	541.7	555.1	551.5	530.0	490.6	428.7	419.7
57.5°	3384.6	3064.5	2061.8	808.0	483.4	502.2	508.5	512.1	468.1	413.4	402.7
60°	3380.1	3025.0	1968.5	592.8	426.9	449.3	472.6	472.6	442.1	388.3	380.3
62.5°	3359.5	2947.0	1751.5	422.4	382.0	411.6	442.1	428.7	402.7	359.6	351.6
65°	3265.3	2816.9	1370.4	344.4	363.2	390.1	404.5	385.6	352.5	307.6	304.0
67.5°	3094.1	2519.2	792.8	315.7	347.1	371.3	382.9	354.2	322.9	279.8	278.0
69°	2905.7	2217.9	446.6	308.5	337.2	358.7	368.6	337.2	306.7	265.5	257.4
70°	2737.1	1948.8	290.6	302.2	327.3	350.7	357.8	325.5	296.8	254.7	249.3
72.5°	2073.5	1173.9	195.5	276.2	300.4	318.4	329.1	298.6	266.4	224.2	213.4
75°	1132.7	319.3	172.2	236.8	267.3	291.5	294.2	255.6	209.0	165.9	161.4
77.5°	220.6	109.4	148.0	195.5	212.5	241.2	239.5	213.4	181.2	140.8	135.4
80°	83.4	78.9	123.8	139.9	149.8	180.3	191.0	172.2	150.7	96.0	82.5
82.5°	56.5	58.3	92.4	82.5	91.5	106.7	134.5	130.9	119.3	65.5	58.3
85°	39.5	45.7	51.1	35.0	44.8	67.3	88.8	86.1	73.5	45.7	41.3
87.5°	11.7	12.6	14.3	17.9	27.8	50.2	72.6	60.1	40.4	34.1	29.6
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)