

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: P233566

Luminaire Tested: **VERD-C02-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233566
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-C02-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1140mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9563 lumens
Efficiency: N/A
Efficacy: 106.3 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): 90
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

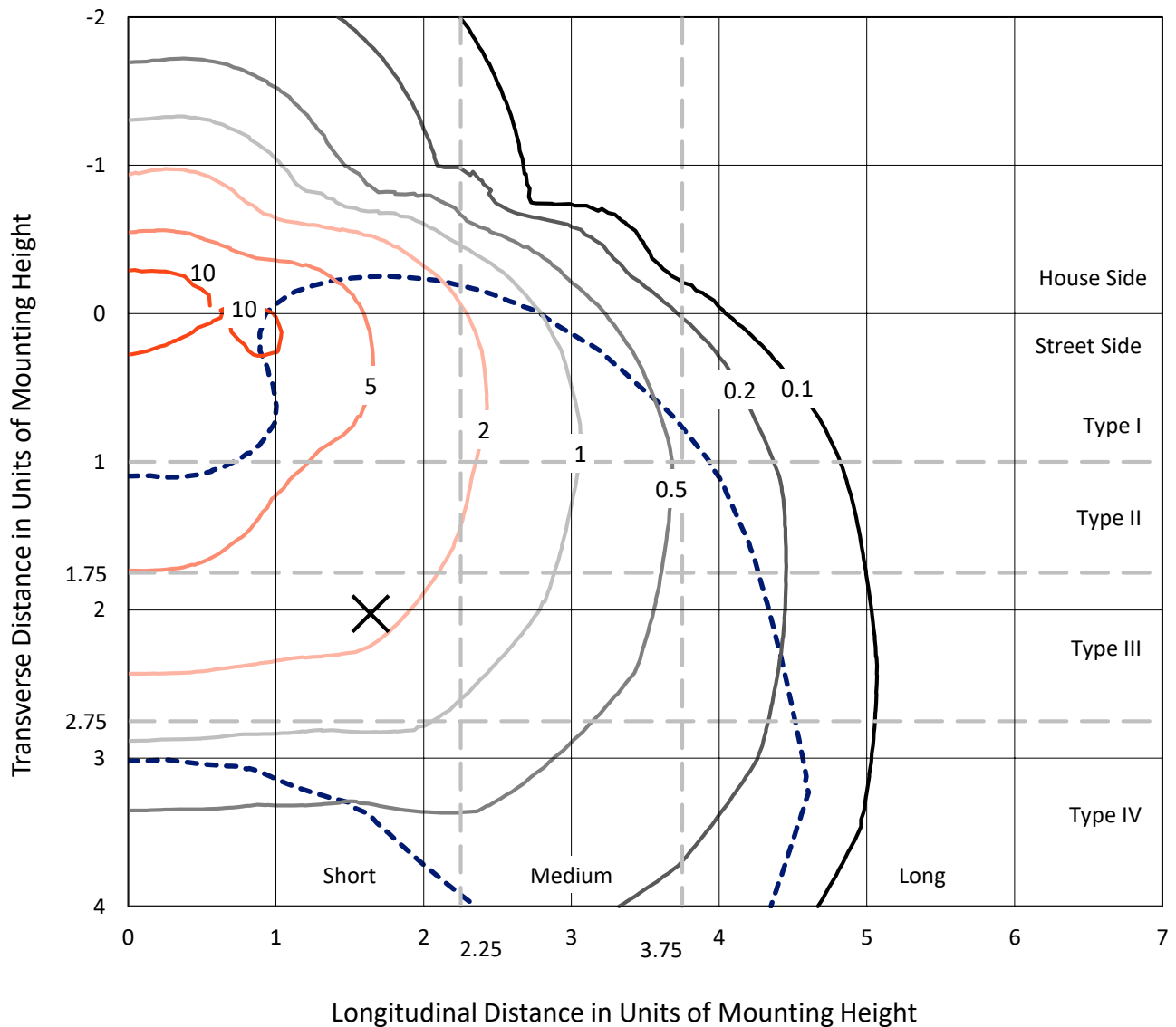


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

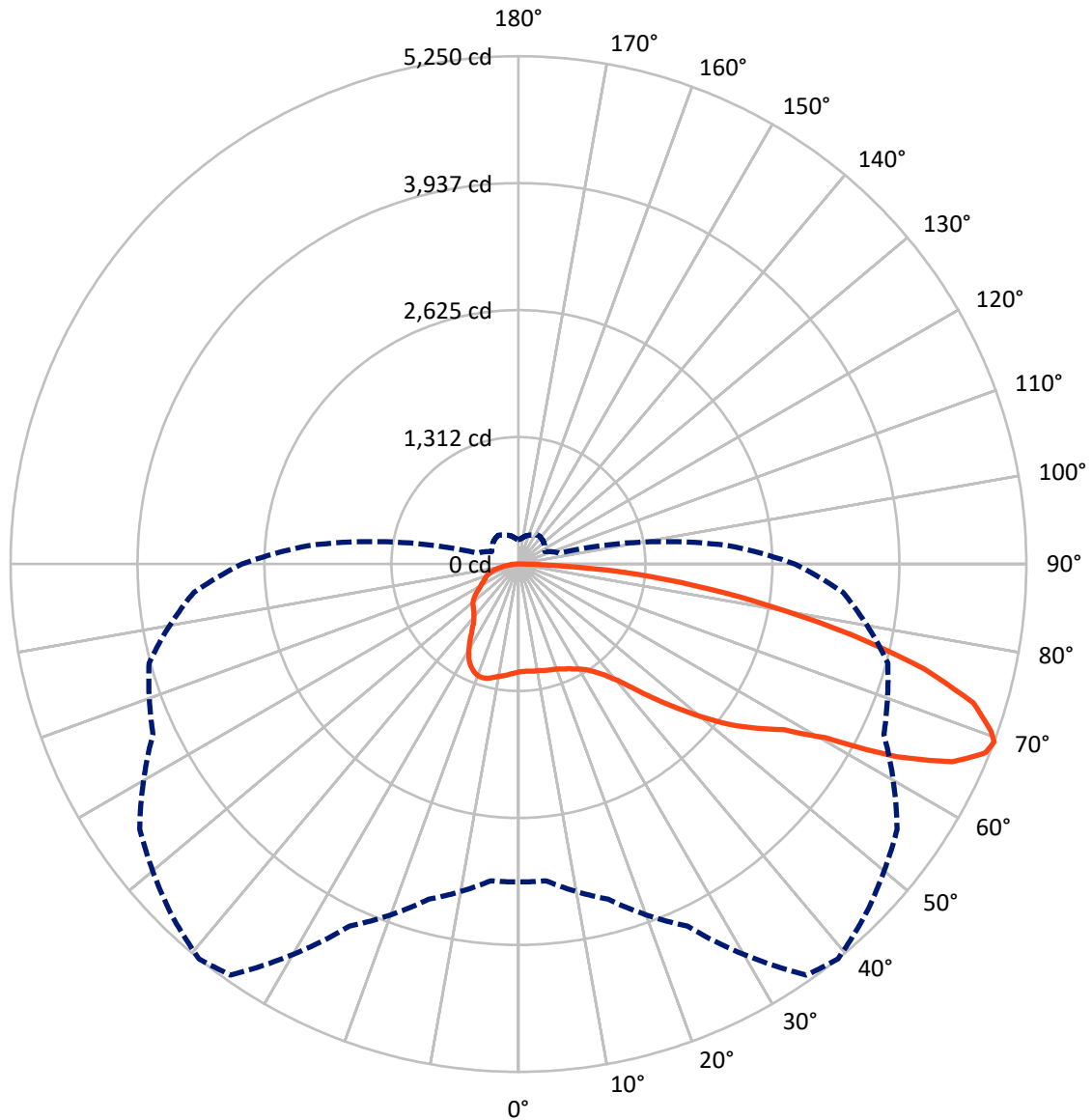


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - Non-Cutoff

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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	2241.7	0.0	2241.7
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7321.3	0.0	7321.3
	% Fixture	76.6	0.0	76.6
Total	Lumens	9563.0	0.0	9563.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	1.1
10°-20°	334.6	3.5
20°-30°	563.2	5.9
30°-40°	816.0	8.5
40°-50°	1319.0	13.8
50°-60°	1931.0	20.2
60°-70°	2416.9	25.3
70°-80°	1727.8	18.1
80°-90°	346.4	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°	9563.0	100.0
0°-180°	9563.0	100.0



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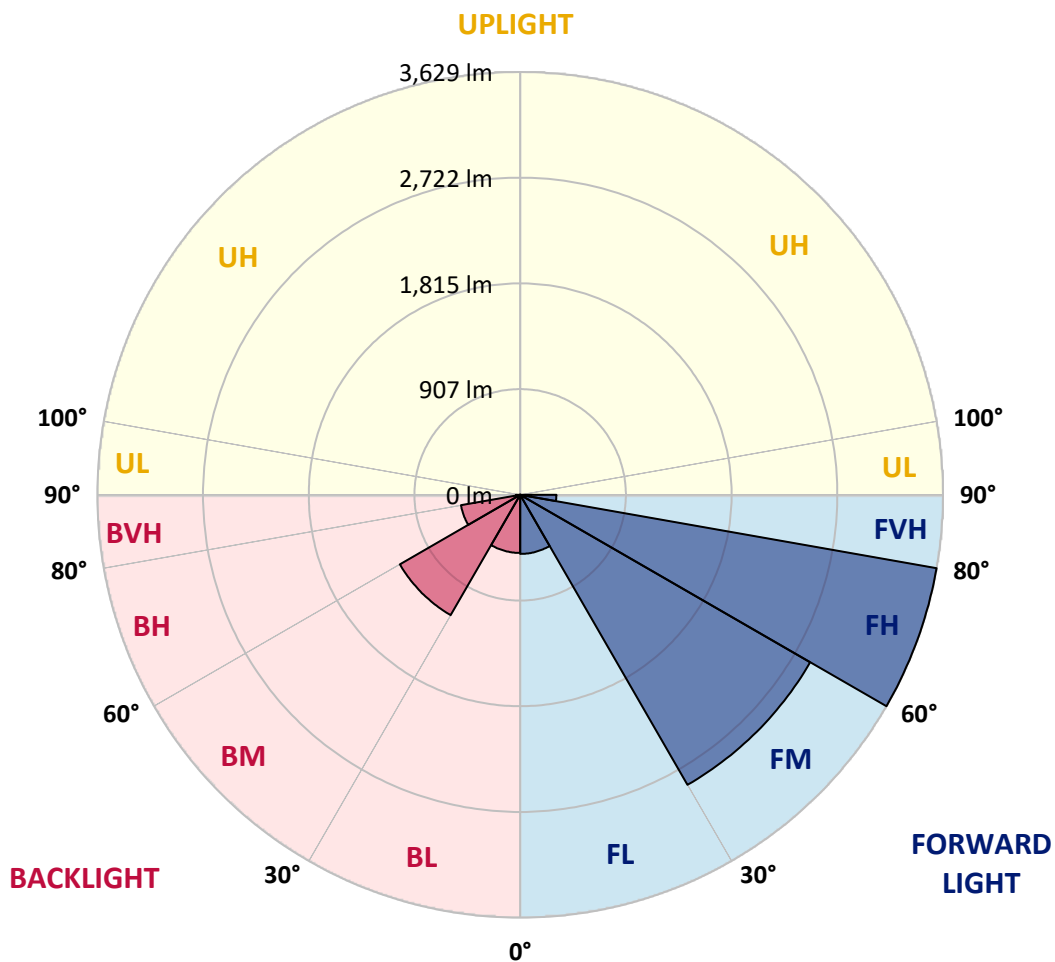
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.3	5.3			
FM	(30°-60°)	2873.8	30.1			
FH	(60°-80°)	3629.1	37.9			G2/5000
FVH	(80°-90°)	311.0	3.3			G3/500
BL	(0°-30°)	498.7	5.2	B1/500		
BM	(30°-60°)	1192.1	12.5	B2/2500		
BH	(60°-80°)	515.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	35.4	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°	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9
2.5°	1133.3	1131.5	1128.0	1113.9	1112.1	1111.3	1113.0	1107.7	1106.9	1108.6	1106.9
5°	1134.2	1132.4	1128.0	1115.7	1113.9	1112.1	1113.0	1108.6	1109.5	1113.9	1113.9
7.5°	1135.9	1134.2	1129.8	1116.5	1120.1	1118.3	1121.8	1115.7	1115.7	1119.2	1120.1
10°	1131.5	1130.6	1128.0	1118.3	1123.6	1120.1	1123.6	1124.5	1128.0	1130.6	1129.8
12.5°	1120.1	1120.1	1120.1	1115.7	1130.6	1129.8	1135.9	1142.1	1150.9	1155.3	1158.0
15°	1113.0	1112.1	1118.3	1117.4	1135.9	1138.6	1149.2	1165.0	1178.2	1189.7	1193.2
17.5°	1120.1	1120.1	1128.0	1126.2	1144.7	1146.5	1158.0	1180.9	1202.9	1224.9	1234.6
20°	1128.0	1128.9	1138.6	1141.2	1158.8	1158.0	1169.4	1197.6	1227.6	1260.2	1276.9
22.5°	1152.7	1151.8	1159.7	1154.4	1174.7	1178.2	1187.9	1212.6	1254.9	1296.3	1323.6
25°	1171.2	1173.8	1181.8	1178.2	1195.0	1199.4	1215.2	1239.0	1289.3	1338.6	1387.1
27.5°	1188.8	1194.1	1200.3	1199.4	1222.3	1227.6	1239.9	1276.9	1335.1	1394.1	1462.0
30°	1215.2	1213.5	1217.9	1225.8	1255.8	1259.3	1274.3	1319.2	1389.7	1466.4	1557.2
32.5°	1250.5	1248.7	1253.1	1260.2	1296.3	1305.1	1325.4	1373.9	1462.9	1555.4	1666.4
35°	1306.0	1310.4	1313.9	1322.8	1358.0	1370.3	1397.7	1459.4	1562.5	1710.5	1869.1
37.5°	1499.0	1489.3	1469.9	1434.7	1444.4	1458.5	1497.2	1585.4	1735.2	1986.3	2131.8
40°	1800.4	1788.9	1728.1	1625.0	1578.3	1581.8	1619.7	1739.6	1944.0	2310.6	2444.6
42.5°	2084.2	2070.1	1997.8	1869.1	1776.6	1766.0	1769.6	1907.9	2173.2	2634.9	2706.3
45°	2352.1	2359.1	2249.0	2150.3	2044.5	1996.0	1981.1	2084.2	2427.9	2916.1	2938.1
47.5°	2608.5	2613.8	2489.5	2394.4	2292.1	2235.7	2206.7	2286.9	2662.3	3143.4	3123.2
50°	2870.2	2884.3	2714.3	2633.2	2538.9	2498.4	2470.2	2523.0	2921.4	3361.1	3298.5
52.5°	3239.5	3180.4	2957.5	2842.9	2775.9	2763.6	2734.5	2777.7	3196.3	3553.2	3422.8
55°	3650.1	3524.1	3289.7	3089.7	2997.1	2997.1	2971.6	3021.8	3480.1	3696.9	3524.1
57.5°	3783.2	3795.6	3714.5	3496.8	3248.3	3228.9	3204.2	3273.0	3723.3	3825.5	3562.0
60°	4015.9	4050.2	4112.8	3931.3	3808.8	3644.0	3494.2	3531.2	3933.0	3931.3	3602.6
62.5°	4131.3	4163.9	4359.6	4261.7	4377.2	4388.6	4108.4	3822.9	4088.1	3984.1	3621.9
65°	4022.0	4045.0	4305.8	4434.5	4769.3	4928.8	4790.5	4215.0	4170.1	3962.1	3549.7
67.5°	3663.4	3706.6	3922.5	4314.6	5119.2	5208.2	5078.7	4753.5	4205.3	3969.2	3491.5
69°	3286.2	3287.1	3586.7	4130.4	5187.9	5249.6	5091.0	4779.0	4168.3	3952.4	3367.3
70°	3073.8	3095.8	3317.9	3970.9	5162.4	5182.6	5061.0	4778.2	4142.8	3947.1	3249.2
72.5°	2398.8	2387.3	2608.5	3320.6	4873.3	4918.3	4784.3	4643.3	4121.6	3719.8	2748.6
75°	1677.0	1712.3	1929.1	2516.0	4199.2	4334.0	4334.0	4460.9	3793.8	3178.7	1987.2
77.5°	1247.9	1253.1	1426.7	1922.0	3378.7	3518.8	3647.5	3754.1	2965.4	2177.6	888.3
80°	845.1	853.1	1011.7	1417.9	2503.6	2632.3	2835.9	2583.0	1764.3	753.5	101.3
82.5°	532.3	542.9	668.9	995.8	1784.5	1842.7	1905.3	1458.5	587.8	87.2	64.3
85°	316.4	318.1	403.6	636.3	1088.3	1091.9	1024.9	671.5	157.7	52.0	40.5
87.5°	132.2	139.2	176.3	282.0	319.0	252.0	156.9	53.8	23.8	21.2	14.1
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°	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9
2.5°	1101.6	1111.3	1109.5	1112.1	1115.7	1122.7	1130.6	1127.1	1131.5	1141.2	1141.2
5°	1111.3	1119.2	1121.8	1127.1	1131.5	1138.6	1143.9	1142.1	1151.8	1165.9	1165.9
7.5°	1119.2	1125.4	1134.2	1140.3	1144.7	1158.8	1164.1	1160.6	1167.7	1184.4	1185.3
10°	1130.6	1136.8	1150.0	1156.2	1165.0	1172.1	1179.1	1178.2	1185.3	1200.3	1202.9
12.5°	1158.8	1163.3	1181.8	1190.6	1190.6	1199.4	1194.1	1185.3	1188.8	1197.6	1199.4
15°	1195.9	1202.0	1225.8	1230.2	1225.8	1227.6	1215.2	1187.0	1172.9	1175.6	1176.5
17.5°	1238.2	1248.7	1276.1	1269.9	1264.6	1251.4	1219.7	1177.4	1135.1	1119.2	1121.8
20°	1283.1	1296.3	1328.0	1314.8	1295.4	1261.1	1210.0	1137.7	1072.5	1034.6	1032.8
22.5°	1335.1	1351.8	1381.8	1358.9	1315.7	1255.8	1177.4	1089.2	1006.4	947.3	943.8
25°	1406.5	1425.0	1435.6	1389.7	1319.2	1236.4	1130.6	1023.1	919.1	848.6	843.4
27.5°	1487.6	1497.2	1476.1	1407.4	1302.5	1195.0	1072.5	939.4	824.9	766.7	758.8
30°	1577.4	1569.5	1503.4	1398.5	1259.3	1129.8	981.7	832.8	741.1	694.4	687.4
32.5°	1681.4	1656.8	1524.6	1373.9	1202.0	1044.3	883.0	764.9	691.8	645.1	641.6
35°	1852.4	1781.9	1558.9	1336.0	1126.2	943.8	792.2	706.8	649.5	591.3	582.5
37.5°	2100.0	1967.0	1609.2	1300.7	1044.3	846.9	723.5	660.1	609.8	544.6	532.3
40°	2357.4	2184.6	1692.0	1262.0	967.6	775.5	685.6	640.7	591.3	529.6	512.9
42.5°	2592.6	2391.7	1788.9	1213.5	887.4	718.2	667.1	635.4	586.0	527.9	514.7
45°	2805.9	2586.5	1888.5	1158.0	799.3	672.4	652.1	625.7	575.5	519.9	509.4
47.5°	2985.7	2752.2	1989.0	1093.6	714.7	644.2	636.3	608.1	561.4	507.6	498.8
50°	3134.6	2871.1	2046.3	1025.8	645.1	623.0	613.4	578.1	530.5	480.3	475.0
52.5°	3244.8	2945.1	2098.3	989.6	590.4	588.7	582.5	548.1	502.3	450.3	439.7
55°	3321.4	3006.0	2075.4	961.4	532.3	545.5	542.0	520.8	482.0	421.2	412.4
57.5°	3325.8	3011.2	2026.0	794.0	475.0	493.5	499.7	503.2	460.0	406.3	395.7
60°	3321.4	2972.5	1934.4	582.5	419.5	441.5	464.4	464.4	434.5	381.6	373.7
62.5°	3301.2	2895.8	1721.1	415.1	375.4	404.5	434.5	421.2	395.7	353.4	345.5
65°	3208.6	2768.0	1346.6	338.4	356.9	383.3	397.4	378.9	346.3	302.3	298.7
67.5°	3040.3	2475.4	779.0	310.2	341.0	364.8	376.3	348.1	317.3	275.0	273.2
69°	2855.3	2179.3	438.9	303.2	331.4	352.5	362.2	331.4	301.4	260.9	252.9
70°	2689.6	1915.0	285.5	297.0	321.7	344.6	351.6	319.9	291.7	250.3	245.0
72.5°	2037.5	1153.6	192.1	271.4	295.2	312.8	323.4	293.5	261.7	220.3	209.7
75°	1113.0	313.7	169.2	232.7	262.6	286.4	289.1	251.2	205.3	163.0	158.6
77.5°	216.8	107.5	145.4	192.1	208.9	237.1	235.3	209.7	178.0	138.4	133.1
80°	82.0	77.6	121.6	137.5	147.2	177.1	187.7	169.2	148.1	94.3	81.1
82.5°	55.5	57.3	90.8	81.1	89.9	104.9	132.2	128.7	117.2	64.3	57.3
85°	38.8	44.9	50.2	34.4	44.1	66.1	87.2	84.6	72.3	44.9	40.5
87.5°	11.5	12.3	14.1	17.6	27.3	49.4	71.4	59.0	39.7	33.5	29.1
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)