

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: P233567

Luminaire Tested: **VERD-C02H6-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233567
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-C02H6-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10090 lumens
Efficiency: N/A
Efficacy: 103.0 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

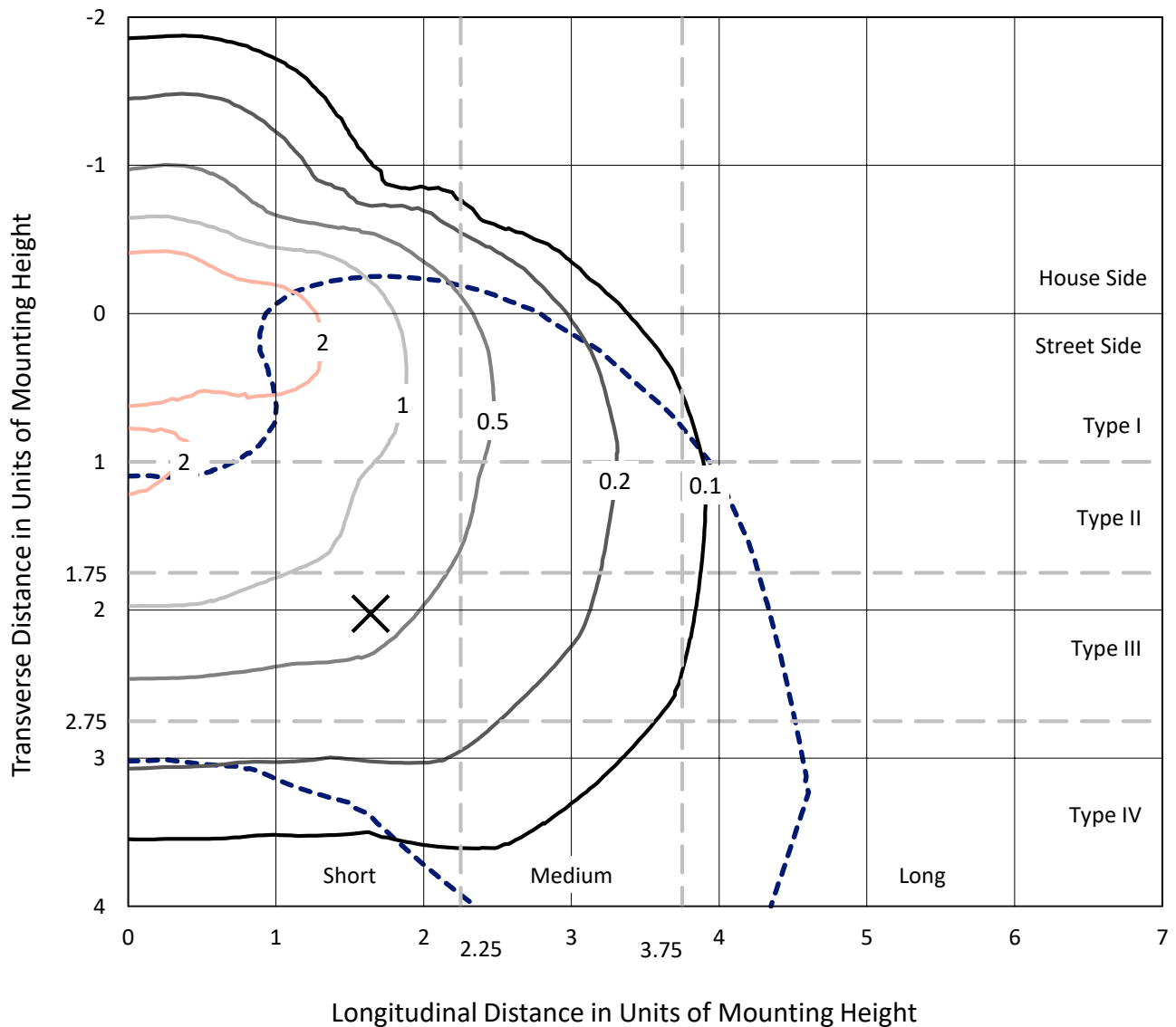
Input Watts (W): 98
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

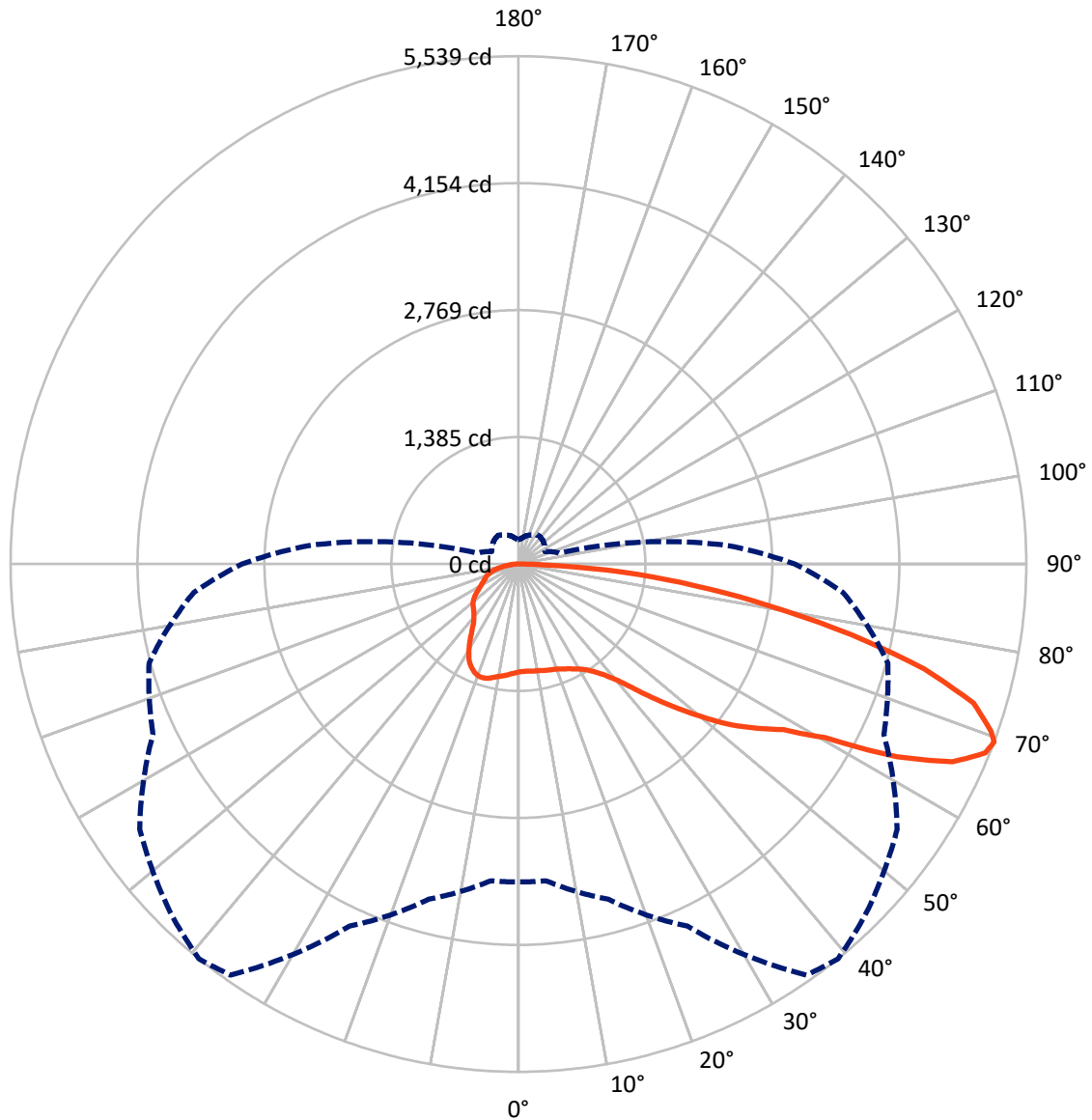


Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Non-Cutoff

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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	2365.3	0.0	2365.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7724.7	0.0	7724.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	10090.0	0.0	10090.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.1
10°-20°	353.0	3.5
20°-30°	594.3	5.9
30°-40°	860.9	8.5
40°-50°	1391.7	13.8
50°-60°	2037.4	20.2
60°-70°	2550.1	25.3
70°-80°	1823.0	18.1
80°-90°	365.5	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°	10090.0	100.0
0°-180°	10090.0	100.0



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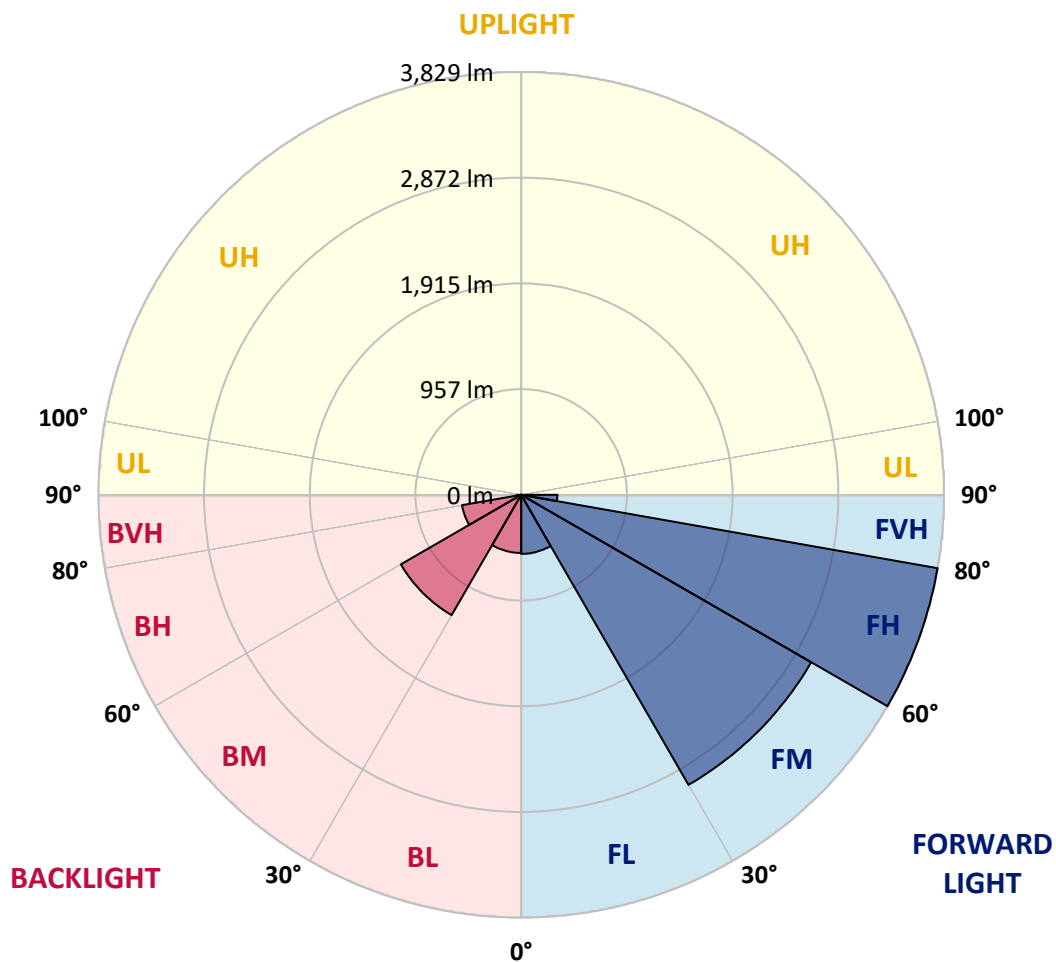
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.3	5.3			
FM	(30°-60°)	3032.2	30.1			
FH	(60°-80°)	3829.1	37.9			G2/5000
FVH	(80°-90°)	328.2	3.3			G3/500
BL	(0°-30°)	526.2	5.2	B2/1000		
BM	(30°-60°)	1257.8	12.5	B2/2500		
BH	(60°-80°)	543.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	37.4	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°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1195.7	1193.9	1190.2	1175.3	1173.4	1172.5	1174.4	1168.8	1167.9	1169.7	1167.9
5°	1196.7	1194.8	1190.2	1177.1	1175.3	1173.4	1174.4	1169.7	1170.6	1175.3	1175.3
7.5°	1198.5	1196.7	1192.0	1178.1	1181.8	1179.9	1183.7	1177.1	1177.1	1180.9	1181.8
10°	1193.9	1193.0	1190.2	1179.9	1185.5	1181.8	1185.5	1186.4	1190.2	1193.0	1192.0
12.5°	1181.8	1181.8	1181.8	1177.1	1193.0	1192.0	1198.5	1205.0	1214.3	1219.0	1221.8
15°	1174.4	1173.4	1179.9	1179.0	1198.5	1201.3	1212.5	1229.2	1243.2	1255.3	1259.0
17.5°	1181.8	1181.8	1190.2	1188.3	1207.8	1209.7	1221.8	1246.0	1269.2	1292.4	1302.7
20°	1190.2	1191.1	1201.3	1204.1	1222.7	1221.8	1233.9	1263.6	1295.2	1329.6	1347.3
22.5°	1216.2	1215.3	1223.6	1218.1	1239.4	1243.2	1253.4	1279.4	1324.1	1367.8	1396.6
25°	1235.7	1238.5	1246.9	1243.2	1260.8	1265.5	1282.2	1307.3	1360.3	1412.4	1463.5
27.5°	1254.3	1259.9	1266.4	1265.5	1289.7	1295.2	1308.3	1347.3	1408.7	1471.0	1542.6
30°	1282.2	1280.4	1285.0	1293.4	1325.0	1328.7	1344.5	1391.9	1466.3	1547.2	1643.0
32.5°	1319.4	1317.6	1322.2	1329.6	1367.8	1377.1	1398.4	1449.6	1543.5	1641.1	1758.3
35°	1378.0	1382.6	1386.4	1395.7	1432.8	1445.9	1474.7	1539.8	1648.6	1804.8	1972.1
37.5°	1581.6	1571.4	1550.9	1513.7	1524.0	1538.8	1579.8	1672.7	1830.8	2095.8	2249.2
40°	1899.6	1887.5	1823.4	1714.6	1665.3	1669.0	1709.0	1835.5	2051.2	2438.0	2579.3
42.5°	2199.0	2184.1	2107.9	1972.1	1874.5	1863.4	1867.1	2013.1	2292.9	2780.2	2855.5
45°	2481.7	2489.1	2372.9	2268.8	2157.2	2106.0	2090.2	2199.0	2561.6	3076.8	3100.0
47.5°	2752.3	2757.8	2626.7	2526.3	2418.5	2358.9	2328.3	2412.9	2809.0	3316.7	3295.3
50°	3028.4	3043.3	2863.8	2778.3	2678.8	2636.0	2606.3	2662.1	3082.3	3546.3	3480.3
52.5°	3418.0	3355.7	3120.5	2999.6	2928.9	2915.9	2885.2	2930.8	3372.4	3749.0	3611.4
55°	3851.3	3718.3	3471.0	3259.9	3162.3	3162.3	3135.3	3188.3	3671.8	3900.6	3718.3
57.5°	3991.7	4004.7	3919.2	3689.5	3427.3	3406.9	3380.8	3453.3	3928.5	4036.3	3758.3
60°	4237.2	4273.4	4339.5	4147.9	4018.7	3844.8	3686.7	3725.8	4149.8	4147.9	3801.1
62.5°	4359.0	4393.4	4599.8	4496.6	4618.4	4630.5	4334.8	4033.5	4313.4	4203.7	3821.5
65°	4243.7	4267.9	4543.1	4678.8	5032.2	5200.5	5054.5	4447.3	4399.9	4180.5	3745.3
67.5°	3865.3	3910.8	4138.6	4552.4	5401.3	5495.2	5358.5	5015.4	4437.1	4187.9	3683.9
69°	3467.3	3468.2	3784.4	4358.1	5473.8	5538.9	5371.6	5042.4	4398.0	4170.2	3552.8
70°	3243.2	3266.4	3500.8	4189.8	5446.9	5468.3	5339.9	5041.5	4371.1	4164.7	3428.2
72.5°	2531.0	2518.9	2752.3	3503.6	5141.9	5189.3	5048.0	4899.2	4348.8	3924.8	2900.1
75°	1769.4	1806.6	2035.4	2654.6	4430.6	4572.8	4572.8	4706.7	4002.9	3353.9	2096.7
77.5°	1316.6	1322.2	1505.4	2027.9	3564.9	3712.8	3848.5	3961.0	3128.8	2297.6	937.3
80°	891.7	900.1	1067.4	1496.1	2641.6	2777.4	2992.2	2725.3	1861.5	795.0	106.9
82.5°	561.6	572.8	705.7	1050.7	1882.9	1944.2	2010.3	1538.8	620.2	92.1	67.9
85°	333.8	335.7	425.9	671.3	1148.3	1152.0	1081.4	708.5	166.4	54.9	42.8
87.5°	139.5	146.9	186.0	297.5	336.6	265.9	165.5	56.7	25.1	22.3	14.9
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°	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1162.3	1172.5	1170.6	1173.4	1177.1	1184.6	1193.0	1189.2	1193.9	1204.1	1204.1
5°	1172.5	1180.9	1183.7	1189.2	1193.9	1201.3	1206.9	1205.0	1215.3	1230.1	1230.1
7.5°	1180.9	1187.4	1196.7	1203.2	1207.8	1222.7	1228.3	1224.6	1232.0	1249.7	1250.6
10°	1193.0	1199.5	1213.4	1219.9	1229.2	1236.7	1244.1	1243.2	1250.6	1266.4	1269.2
12.5°	1222.7	1227.4	1246.9	1256.2	1256.2	1265.5	1259.9	1250.6	1254.3	1263.6	1265.5
15°	1261.8	1268.3	1293.4	1298.0	1293.4	1295.2	1282.2	1252.5	1237.6	1240.4	1241.3
17.5°	1306.4	1317.6	1346.4	1339.9	1334.3	1320.3	1286.9	1242.2	1197.6	1180.9	1183.7
20°	1353.8	1367.8	1401.2	1387.3	1366.8	1330.6	1276.6	1200.4	1131.6	1091.6	1089.7
22.5°	1408.7	1426.3	1458.0	1433.8	1388.2	1325.0	1242.2	1149.3	1061.9	999.6	995.8
25°	1484.0	1503.5	1514.7	1466.3	1391.9	1304.5	1193.0	1079.5	969.8	895.4	889.8
27.5°	1569.5	1579.8	1557.4	1484.9	1374.3	1260.8	1131.6	991.2	870.3	808.9	800.6
30°	1664.4	1656.0	1586.3	1475.6	1328.7	1192.0	1035.8	878.7	782.0	732.7	725.3
32.5°	1774.1	1748.1	1608.6	1449.6	1268.3	1101.8	931.7	807.1	729.9	680.6	676.9
35°	1954.5	1880.1	1644.8	1409.6	1188.3	995.8	835.9	745.7	685.3	623.9	614.6
37.5°	2215.8	2075.4	1697.8	1372.4	1101.8	893.6	763.4	696.4	643.4	574.6	561.6
40°	2487.3	2305.0	1785.2	1331.5	1020.9	818.2	723.4	676.0	623.9	558.8	541.2
42.5°	2735.5	2523.5	1887.5	1280.4	936.3	757.8	703.9	670.4	618.3	557.0	543.0
45°	2960.5	2729.0	1992.6	1221.8	843.3	709.5	688.1	660.2	607.2	548.6	537.4
47.5°	3150.2	2903.8	2098.6	1153.9	754.1	679.7	671.3	641.6	592.3	535.6	526.3
50°	3307.4	3029.3	2159.0	1082.3	680.6	657.4	647.2	610.0	559.8	506.8	501.2
52.5°	3423.6	3107.4	2213.9	1044.2	623.0	621.1	614.6	578.3	530.0	475.1	464.0
55°	3504.5	3171.6	2189.7	1014.4	561.6	575.6	571.8	549.5	508.6	444.5	435.2
57.5°	3509.1	3177.2	2137.6	837.8	501.2	520.7	527.2	530.9	485.4	428.6	417.5
60°	3504.5	3136.3	2040.9	614.6	442.6	465.8	490.0	490.0	458.4	402.6	394.2
62.5°	3483.1	3055.4	1815.9	437.9	396.1	426.8	458.4	444.5	417.5	372.9	364.5
65°	3385.5	2920.6	1420.8	357.0	376.6	404.5	419.3	399.8	365.4	318.9	315.2
67.5°	3207.9	2611.9	822.0	327.3	359.8	384.9	397.0	367.3	334.7	290.1	288.2
69°	3012.6	2299.4	463.0	319.9	349.6	371.9	382.2	349.6	318.0	275.2	266.9
70°	2837.8	2020.5	301.3	313.3	339.4	363.6	371.0	337.5	307.8	264.1	258.5
72.5°	2149.7	1217.1	202.7	286.4	311.5	330.1	341.2	309.6	276.2	232.5	221.3
75°	1174.4	331.0	178.5	245.5	277.1	302.2	305.0	265.0	216.6	172.0	167.4
77.5°	228.7	113.4	153.4	202.7	220.4	250.1	248.3	221.3	187.8	146.0	140.4
80°	86.5	81.8	128.3	145.1	155.3	186.9	198.1	178.5	156.2	99.5	85.5
82.5°	58.6	60.4	95.8	85.5	94.8	110.6	139.5	135.8	123.7	67.9	60.4
85°	40.9	47.4	53.0	36.3	46.5	69.7	92.1	89.3	76.2	47.4	42.8
87.5°	12.1	13.0	14.9	18.6	28.8	52.1	75.3	62.3	41.8	35.3	30.7
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)