

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: P233593

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233593
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
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11450 lumens
Efficiency: N/A
Efficacy: 116.8 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

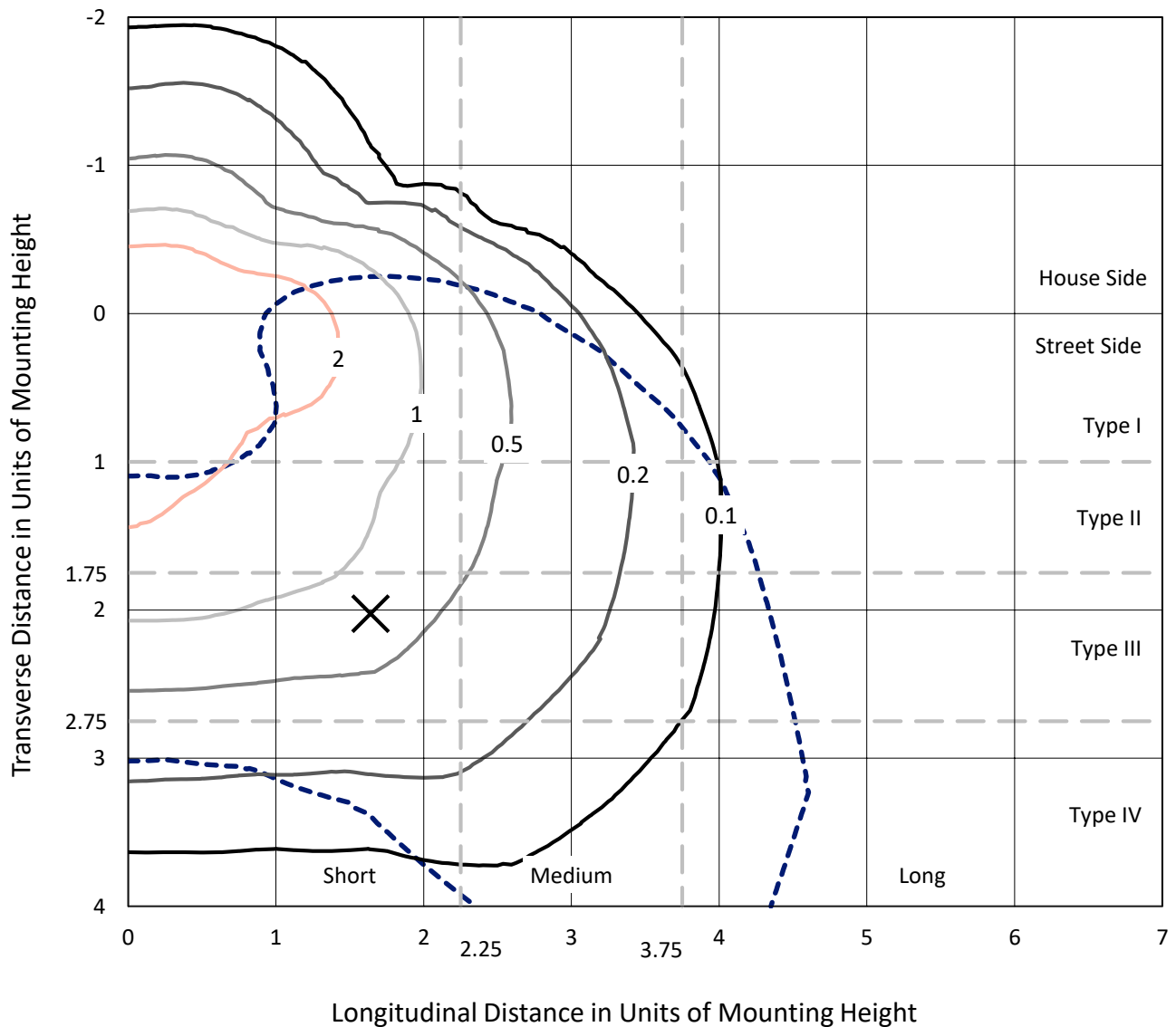
Input Watts (W): 98
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

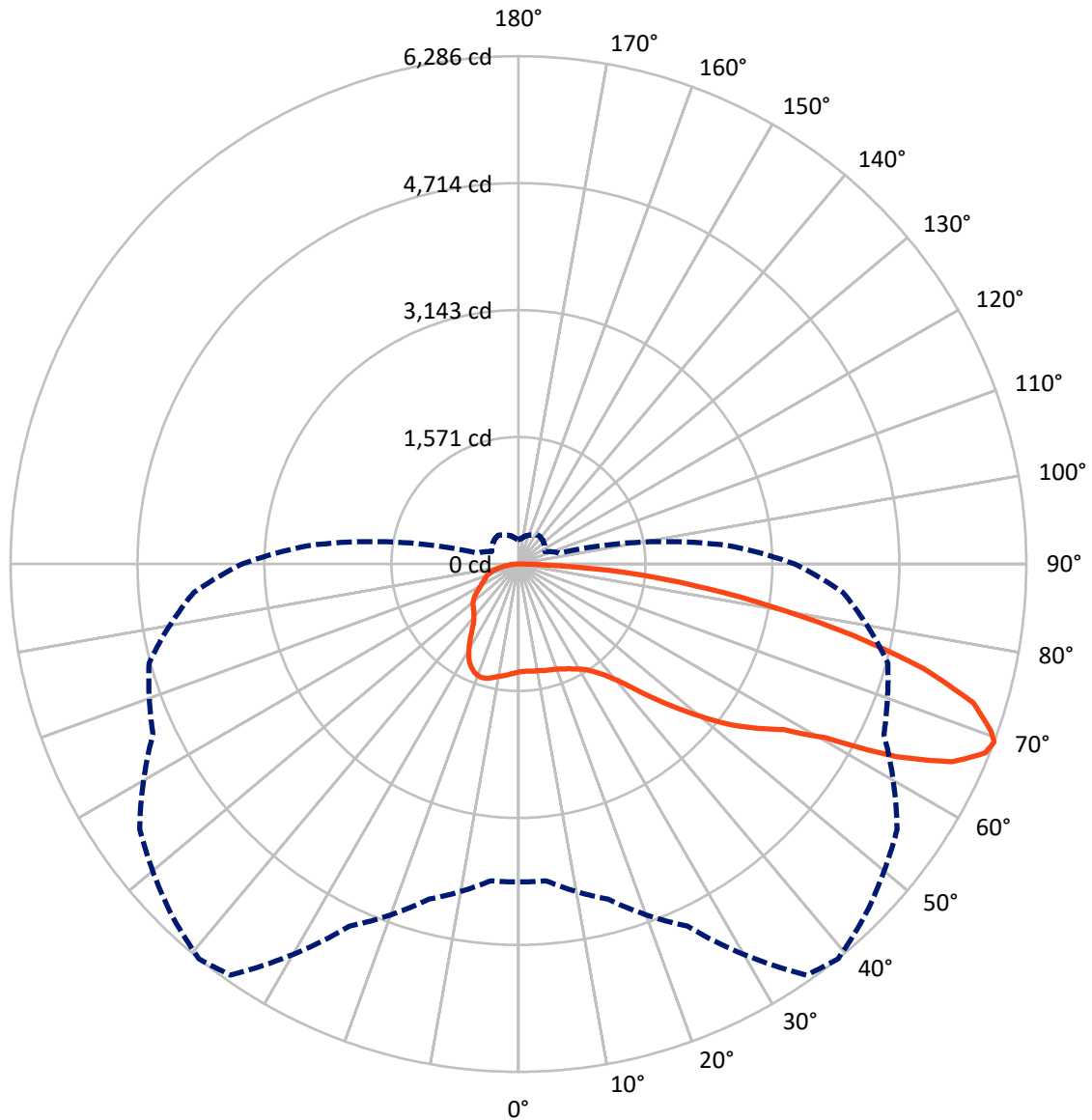


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Non-Cutoff

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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	2684.1	0.0	2684.1
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	8765.9	0.0	8765.9
	% Fixture	76.6	0.0	76.6
Total	Lumens	11450.0	0.0	11450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.1
10°-20°	400.6	3.5
20°-30°	674.4	5.9
30°-40°	977.0	8.5
40°-50°	1579.2	13.8
50°-60°	2312.0	20.2
60°-70°	2893.8	25.3
70°-80°	2068.7	18.1
80°-90°	414.8	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°	11450.0	100.0
0°-180°	11450.0	100.0

Coefficient of Utilization



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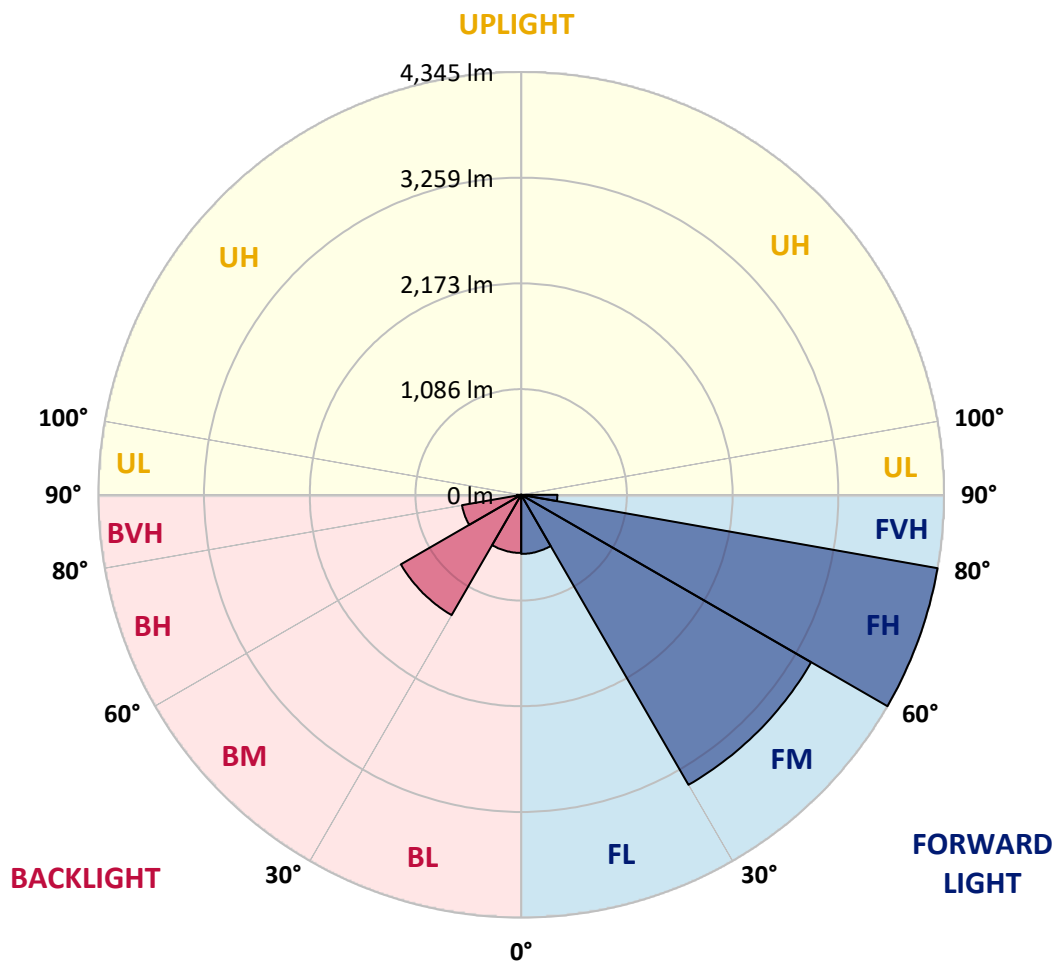
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.4	5.3			
FM (30°-60°)	3440.9	30.1			
FH (60°-80°)	4345.2	37.9			G2/5000
FVH (80°-90°)	372.4	3.3			G3/500
BL (0°-30°)	597.1	5.2	B2/1000		
BM (30°-60°)	1427.3	12.5	B2/2500		
BH (60°-80°)	617.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	42.4	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°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1356.9	1354.8	1350.6	1333.7	1331.6	1330.5	1332.6	1326.3	1325.3	1327.4	1325.3
5°	1358.0	1355.9	1350.6	1335.8	1333.7	1331.6	1332.6	1327.4	1328.4	1333.7	1333.7
7.5°	1360.1	1358.0	1352.7	1336.9	1341.1	1339.0	1343.2	1335.8	1335.8	1340.0	1341.1
10°	1354.8	1353.8	1350.6	1339.0	1345.3	1341.1	1345.3	1346.4	1350.6	1353.8	1352.7
12.5°	1341.1	1341.1	1341.1	1335.8	1353.8	1352.7	1360.1	1367.5	1378.0	1383.3	1386.5
15°	1332.6	1331.6	1339.0	1337.9	1360.1	1363.2	1375.9	1394.9	1410.7	1424.4	1428.7
17.5°	1341.1	1341.1	1350.6	1348.5	1370.6	1372.7	1386.5	1413.9	1440.3	1466.7	1478.3
20°	1350.6	1351.6	1363.2	1366.4	1387.5	1386.5	1400.2	1433.9	1469.8	1508.9	1528.9
22.5°	1380.1	1379.1	1388.6	1382.2	1406.5	1410.7	1422.3	1451.9	1502.5	1552.1	1584.8
25°	1402.3	1405.5	1414.9	1410.7	1430.8	1436.1	1455.0	1483.5	1543.7	1602.8	1660.8
27.5°	1423.4	1429.7	1437.1	1436.1	1463.5	1469.8	1484.6	1528.9	1598.5	1669.2	1750.5
30°	1455.0	1452.9	1458.2	1467.7	1503.6	1507.8	1525.7	1579.6	1664.0	1755.8	1864.4
32.5°	1497.3	1495.1	1500.4	1508.9	1552.1	1562.7	1586.9	1645.0	1751.5	1862.3	1995.3
35°	1563.7	1569.0	1573.2	1583.8	1626.0	1640.7	1673.5	1747.3	1870.8	2048.0	2238.0
37.5°	1794.8	1783.2	1760.0	1717.8	1729.4	1746.3	1792.7	1898.2	2077.6	2378.3	2552.4
40°	2155.7	2141.9	2069.1	1945.7	1889.8	1894.0	1939.4	2082.9	2327.6	2766.6	2927.0
42.5°	2495.4	2478.5	2392.0	2238.0	2127.2	2114.5	2118.7	2284.4	2602.0	3154.9	3240.3
45°	2816.2	2824.6	2692.7	2574.6	2447.9	2389.9	2372.0	2495.4	2906.9	3491.5	3517.9
47.5°	3123.2	3129.6	2980.8	2866.8	2744.4	2676.9	2642.1	2738.1	3187.6	3763.7	3739.4
50°	3436.6	3453.5	3249.8	3152.8	3039.9	2991.3	2957.6	3020.9	3497.8	4024.3	3949.4
52.5°	3878.7	3808.0	3541.1	3403.9	3323.7	3308.9	3274.1	3325.8	3827.0	4254.3	4098.2
55°	4370.4	4219.5	3938.9	3699.3	3588.5	3588.5	3557.9	3618.1	4166.8	4426.3	4219.5
57.5°	4529.7	4544.5	4447.4	4186.8	3889.3	3866.0	3836.5	3918.8	4458.0	4580.4	4264.9
60°	4808.3	4849.4	4924.4	4707.0	4560.3	4363.0	4183.6	4228.0	4709.1	4707.0	4313.4
62.5°	4946.5	4985.6	5219.8	5102.7	5240.9	5254.6	4919.1	4577.2	4894.8	4770.3	4336.6
65°	4815.7	4843.1	5155.4	5309.5	5710.4	5901.4	5735.8	5046.8	4992.9	4743.9	4250.1
67.5°	4386.2	4437.9	4696.4	5166.0	6129.3	6235.9	6080.8	5691.4	5035.1	4752.4	4180.5
69°	3934.6	3935.7	4294.4	4945.5	6211.6	6285.5	6095.6	5722.0	4990.8	4732.3	4031.7
70°	3680.3	3706.7	3972.6	4754.5	6181.0	6205.3	6059.7	5721.0	4960.2	4726.0	3890.3
72.5°	2872.1	2858.4	3123.2	3975.8	5834.9	5888.8	5728.4	5559.6	4934.9	4453.8	3291.0
75°	2007.9	2050.1	2309.7	3012.4	5027.8	5189.2	5189.2	5341.1	4542.4	3805.9	2379.4
77.5°	1494.1	1500.4	1708.3	2301.3	4045.4	4213.2	4367.2	4494.9	3550.6	2607.3	1063.6
80°	1011.9	1021.4	1211.3	1697.7	2997.7	3151.7	3395.5	3092.6	2112.4	902.1	121.3
82.5°	637.3	650.0	800.9	1192.3	2136.7	2206.3	2281.2	1746.3	703.8	104.5	77.0
85°	378.8	380.9	483.3	761.8	1303.1	1307.3	1227.1	804.0	188.9	62.3	48.5
87.5°	158.3	166.7	211.0	337.6	382.0	301.8	187.8	64.4	28.5	25.3	16.9
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°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1318.9	1330.5	1328.4	1331.6	1335.8	1344.3	1353.8	1349.5	1354.8	1366.4	1366.4
5°	1330.5	1340.0	1343.2	1349.5	1354.8	1363.2	1369.6	1367.5	1379.1	1396.0	1396.0
7.5°	1340.0	1347.4	1358.0	1365.4	1370.6	1387.5	1393.8	1389.6	1398.1	1418.1	1419.2
10°	1353.8	1361.1	1377.0	1384.3	1394.9	1403.3	1411.8	1410.7	1419.2	1437.1	1440.3
12.5°	1387.5	1392.8	1414.9	1425.5	1425.5	1436.1	1429.7	1419.2	1423.4	1433.9	1436.1
15°	1431.8	1439.2	1467.7	1473.0	1467.7	1469.8	1455.0	1421.3	1404.4	1407.6	1408.6
17.5°	1482.5	1495.1	1527.8	1520.5	1514.1	1498.3	1460.3	1409.7	1359.0	1340.0	1343.2
20°	1536.3	1552.1	1590.1	1574.3	1551.1	1509.9	1448.7	1362.2	1284.1	1238.7	1236.6
22.5°	1598.5	1618.6	1654.5	1627.0	1575.3	1503.6	1409.7	1304.2	1205.0	1134.3	1130.1
25°	1684.0	1706.2	1718.8	1664.0	1579.6	1480.4	1353.8	1225.0	1100.5	1016.1	1009.8
27.5°	1781.1	1792.7	1767.4	1685.1	1559.5	1430.8	1284.1	1124.8	987.6	918.0	908.5
30°	1888.7	1879.2	1800.1	1674.5	1507.8	1352.7	1175.4	997.1	887.4	831.5	823.0
32.5°	2013.2	1983.7	1825.4	1645.0	1439.2	1250.3	1057.3	915.9	828.3	772.4	768.1
35°	2217.9	2133.5	1866.6	1599.6	1348.5	1130.1	948.6	846.2	777.6	708.0	697.5
37.5°	2514.4	2355.1	1926.7	1557.4	1250.3	1014.0	866.3	790.3	730.2	652.1	637.3
40°	2822.5	2615.7	2025.9	1511.0	1158.5	928.5	820.9	767.1	708.0	634.1	614.1
42.5°	3104.2	2863.7	2141.9	1452.9	1062.5	859.9	798.7	760.8	701.7	632.0	616.2
45°	3359.6	3096.8	2261.2	1386.5	957.0	805.1	780.8	749.2	689.0	622.5	609.9
47.5°	3574.8	3295.2	2381.5	1309.4	855.7	771.3	761.8	728.0	672.1	607.8	597.2
50°	3753.1	3437.7	2450.0	1228.2	772.4	746.0	734.4	692.2	635.2	575.1	568.7
52.5°	3885.0	3526.3	2512.3	1184.9	706.9	704.8	697.5	656.3	601.4	539.2	526.5
55°	3976.8	3599.1	2484.9	1151.2	637.3	653.1	648.9	623.6	577.2	504.4	493.8
57.5°	3982.1	3605.4	2425.8	950.7	568.7	590.9	598.3	602.5	550.8	486.4	473.8
60°	3976.8	3559.0	2316.0	697.5	502.2	528.6	556.1	556.1	520.2	456.9	447.4
62.5°	3952.6	3467.2	2060.7	497.0	449.5	484.3	520.2	504.4	473.8	423.1	413.6
65°	3841.8	3314.2	1612.3	405.2	427.3	459.0	475.9	453.7	414.7	361.9	357.7
67.5°	3640.2	2963.9	932.7	371.4	408.3	436.8	450.5	416.8	379.9	329.2	327.1
69°	3418.7	2609.4	525.5	363.0	396.7	422.1	433.7	396.7	360.9	312.3	302.8
70°	3220.3	2292.8	341.9	355.6	385.1	412.6	421.0	383.0	349.3	299.7	293.3
72.5°	2439.5	1381.2	230.0	325.0	353.5	374.6	387.2	351.4	313.4	263.8	251.1
75°	1332.6	375.6	202.6	278.6	314.4	342.9	346.1	300.7	245.8	195.2	189.9
77.5°	259.6	128.7	174.1	230.0	250.1	283.8	281.7	251.1	213.1	165.7	159.3
80°	98.1	92.9	145.6	164.6	176.2	212.1	224.7	202.6	177.3	112.9	97.1
82.5°	66.5	68.6	108.7	97.1	107.6	125.6	158.3	154.1	140.3	77.0	68.6
85°	46.4	53.8	60.1	41.2	52.8	79.1	104.5	101.3	86.5	53.8	48.5
87.5°	13.7	14.8	16.9	21.1	32.7	59.1	85.5	70.7	47.5	40.1	34.8
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)