

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: P233949

Luminaire Tested: **VERD-G-C028-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C028-D-U-T4-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 885mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11622 lumens
Efficiency: N/A
Efficacy: 112.8 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

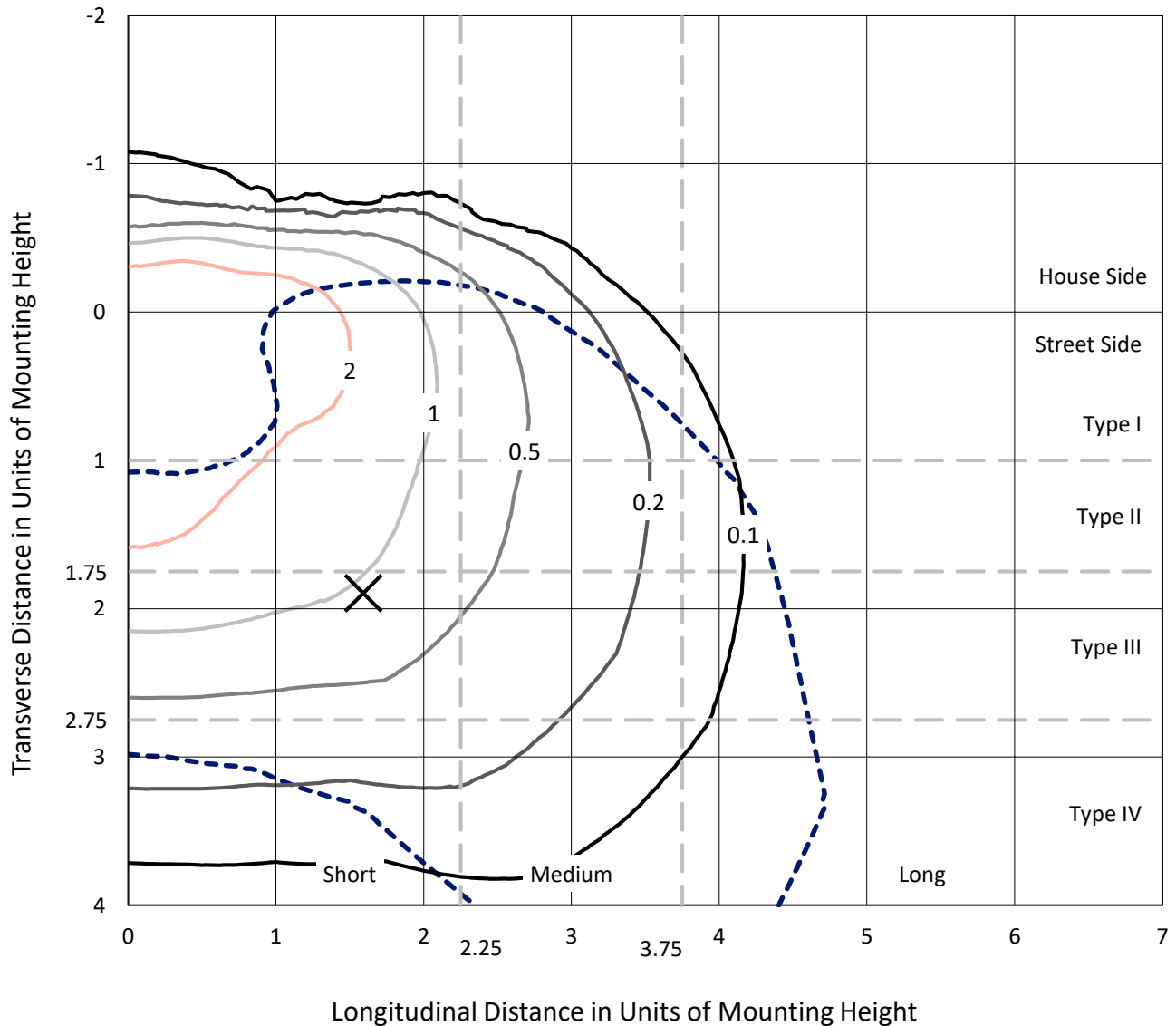
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

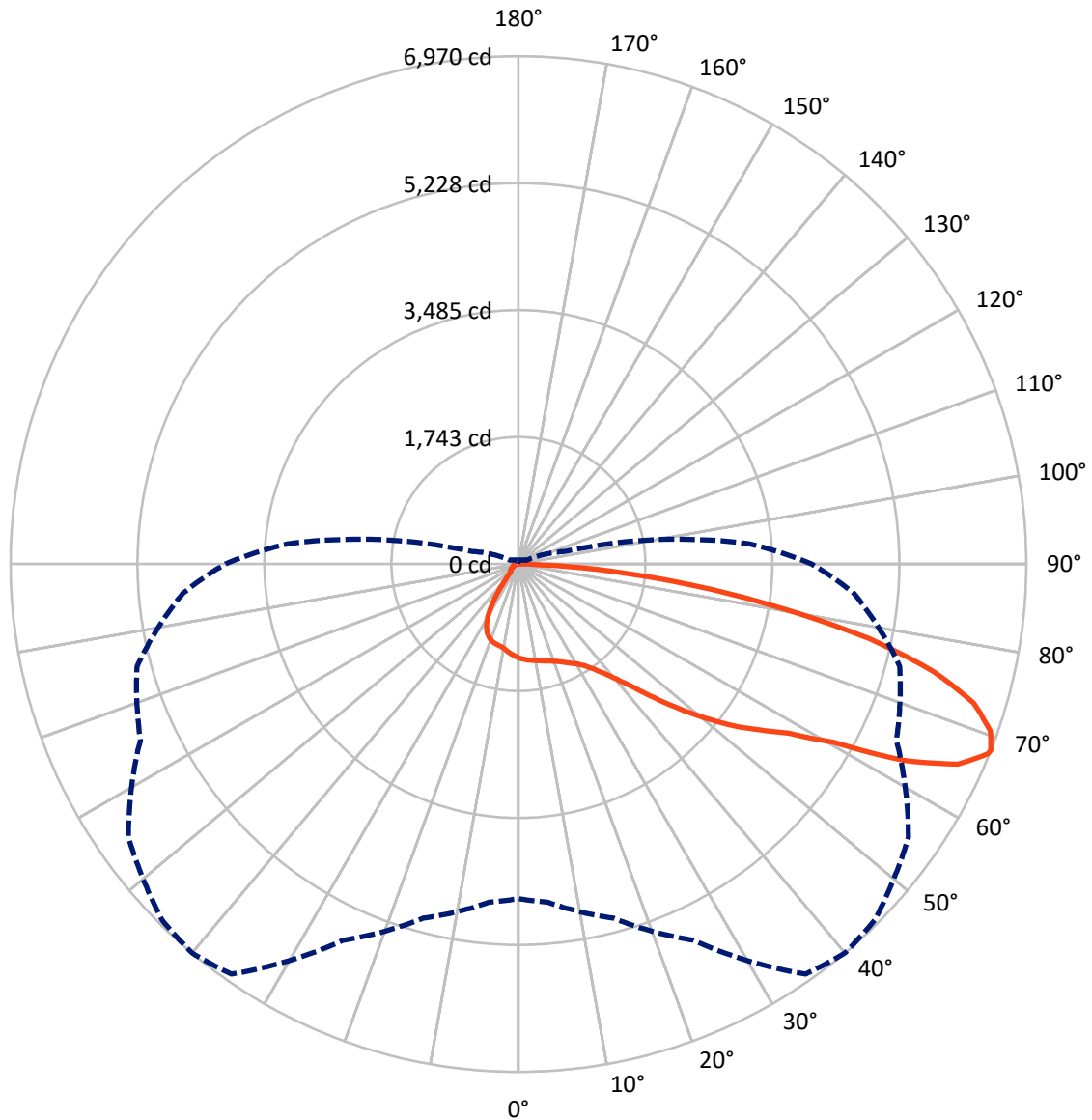
✕ Max cd
 - - - 1/2 Max cd



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 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.3	0.0	1885.3
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	9736.7	0.0	9736.7
	% Fixture	83.8	0.0	83.8
Total	Lumens	11622.0	0.0	11622.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.1
10°-20°	367.0	3.2
20°-30°	615.9	5.3
30°-40°	912.1	7.8
40°-50°	1543.1	13.3
50°-60°	2355.0	20.3
60°-70°	3083.6	26.5
70°-80°	2217.0	19.1
80°-90°	405.8	3.5
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°	11622.0	100.0
0°-180°	11622.0	100.0



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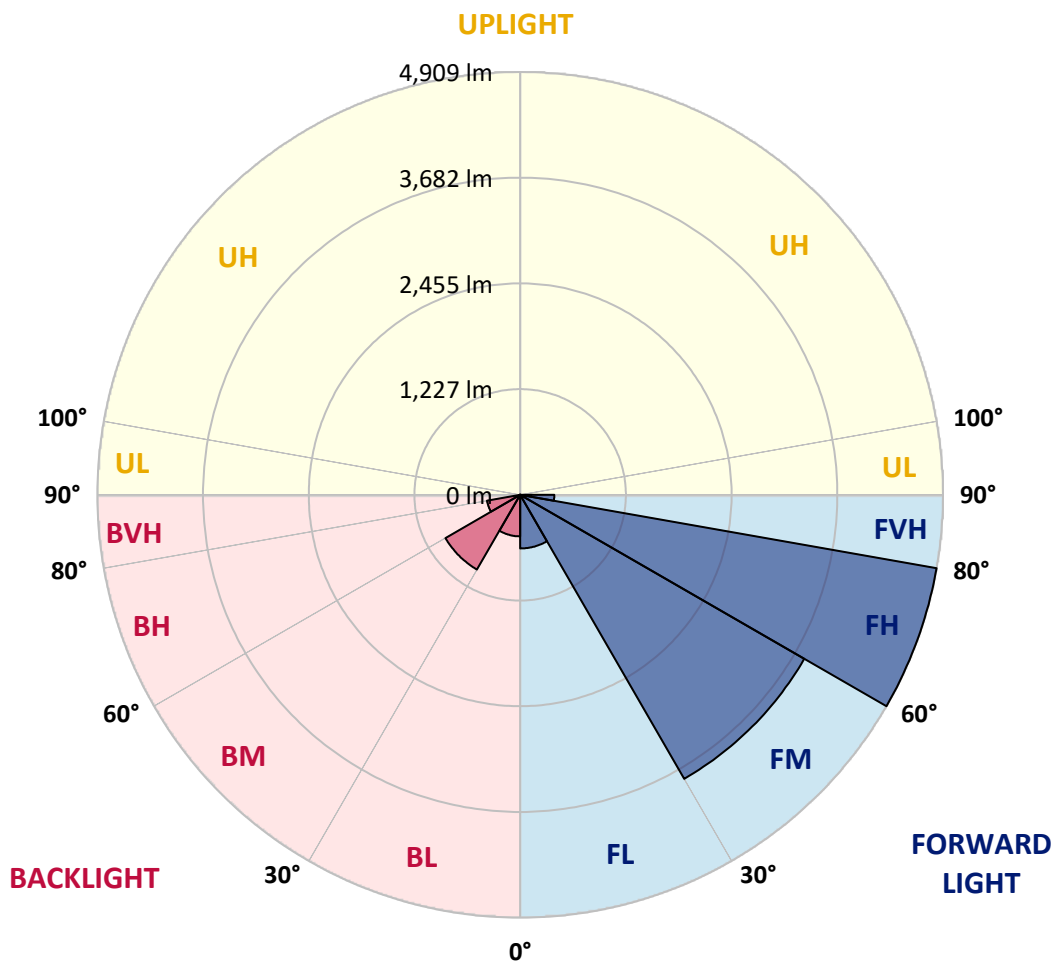
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	623.0	5.4			
FM	(30°-60°)	3808.2	32.8			
FH	(60°-80°)	4909.3	42.2			G2/5000
FVH	(80°-90°)	396.2	3.4			G3/500
BL	(0°-30°)	482.4	4.2	B1/500		
BM	(30°-60°)	1002.1	8.6	B2/2500		
BH	(60°-80°)	391.3	3.4	B1/500		G1/500
BVH	(80°-90°)	9.6	0.1			G0/10
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°	40°	45°	55°	65°	75°	85°
0°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1332.3	1335.2	1331.3	1321.6	1310.9	1305.1	1304.1	1303.1	1298.2	1291.4	1281.7
5°	1345.9	1346.9	1343.0	1335.2	1325.5	1323.5	1320.6	1321.6	1318.7	1311.9	1301.2
7.5°	1351.8	1353.7	1348.8	1341.1	1333.3	1333.3	1332.3	1335.2	1333.3	1330.4	1317.7
10°	1349.8	1352.7	1349.8	1346.9	1344.0	1346.9	1345.0	1351.8	1352.7	1352.7	1338.1
12.5°	1346.9	1350.8	1351.8	1354.7	1359.6	1362.5	1366.4	1381.0	1387.8	1392.6	1381.0
15°	1349.8	1351.8	1359.6	1364.4	1374.2	1381.0	1389.7	1414.1	1425.7	1439.4	1433.5
17.5°	1362.5	1367.3	1379.0	1383.9	1393.6	1398.5	1409.2	1439.4	1462.7	1487.0	1490.9
20°	1389.7	1392.6	1412.1	1414.1	1418.9	1423.8	1435.5	1468.6	1503.6	1538.6	1548.4
22.5°	1419.9	1426.7	1445.2	1442.3	1452.0	1454.0	1464.7	1500.7	1549.3	1592.1	1613.6
25°	1451.0	1456.9	1475.4	1477.3	1489.0	1496.8	1509.4	1544.5	1606.7	1661.2	1699.2
27.5°	1477.3	1489.0	1506.5	1508.5	1530.8	1540.6	1559.1	1599.0	1673.9	1741.0	1803.3
30°	1526.0	1528.9	1545.4	1551.3	1581.4	1590.2	1611.6	1662.2	1753.7	1837.4	1934.7
32.5°	1586.3	1585.3	1600.9	1610.6	1647.6	1663.2	1690.4	1748.8	1850.0	1954.2	2092.4
35°	1697.3	1687.5	1697.3	1707.0	1749.8	1766.3	1795.5	1883.1	2001.9	2179.0	2349.3
37.5°	1952.2	1937.6	1917.2	1868.5	1879.2	1900.6	1943.5	2062.2	2237.4	2566.3	2730.8
40°	2394.1	2361.9	2276.3	2147.8	2071.9	2073.9	2113.8	2269.5	2526.4	3010.1	3133.7
42.5°	2794.0	2771.7	2668.5	2492.4	2317.2	2307.4	2321.1	2503.1	2841.7	3421.8	3486.0
45°	3170.7	3181.4	3031.5	2893.3	2684.1	2619.8	2603.3	2752.2	3191.1	3788.6	3794.5
47.5°	3519.1	3536.6	3355.6	3225.2	3018.8	2963.4	2911.8	3014.0	3521.0	4101.0	4053.4
50°	3893.8	3907.4	3656.3	3549.2	3376.0	3324.4	3285.5	3330.3	3858.7	4391.1	4284.0
52.5°	4411.5	4335.6	4020.3	3843.1	3689.4	3685.5	3655.3	3683.5	4243.1	4651.9	4459.2
55°	5022.7	4824.1	4489.3	4206.1	4008.6	4019.3	3983.3	4030.0	4623.6	4875.7	4621.7
57.5°	5238.7	5233.8	5078.1	4806.6	4405.7	4381.3	4319.0	4371.6	4952.6	5084.9	4736.5
60°	5538.4	5564.7	5582.2	5418.7	5187.1	4966.2	4757.9	4753.1	5259.1	5275.7	4793.0
62.5°	5732.1	5756.4	5892.7	5871.3	6014.3	5941.4	5703.9	5177.4	5493.7	5399.3	4814.4
65°	5370.1	5430.4	5774.0	6035.8	6523.3	6625.5	6591.4	5829.4	5653.3	5435.3	4774.5
67.5°	4715.1	4794.0	5170.6	5782.7	6838.6	6952.5	6890.2	6486.3	5722.4	5419.7	4664.5
68°	4592.5	4660.6	5030.4	5698.1	6870.8	6970.0	6913.6	6535.0	5725.3	5417.8	4622.7
70°	4002.7	4058.2	4419.3	5264.0	6781.2	6873.7	6865.9	6580.7	5700.0	5357.4	4341.4
72.5°	3105.5	3160.9	3481.1	4365.7	6367.6	6536.9	6530.1	6397.8	5653.3	5049.9	3639.7
75°	2245.2	2306.5	2598.4	3354.6	5510.2	5883.0	5957.9	6084.4	5167.7	4249.9	2589.7
77.5°	1621.3	1666.1	1918.2	2534.2	4501.0	4927.3	5079.1	5206.6	4229.5	3097.7	1232.1
80°	1081.2	1113.3	1356.6	1884.1	3390.6	3641.7	3805.2	3592.1	2406.7	1120.1	133.3
82.5°	665.7	686.1	877.8	1321.6	2345.4	2424.2	2425.2	1916.2	775.6	107.1	72.0
85°	357.2	364.0	476.9	721.1	1238.9	1298.2	1274.9	804.8	156.7	57.4	38.9
87.5°	57.4	62.3	149.9	270.5	382.5	294.9	188.8	59.4	15.6	8.8	5.8
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°	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4	1291.4
2.5°	1286.6	1283.6	1275.9	1272.0	1262.2	1265.2	1265.2	1257.4	1261.3	1276.8	1274.9
5°	1298.2	1299.2	1280.7	1271.0	1249.6	1243.7	1235.0	1223.3	1222.3	1233.0	1234.0
7.5°	1308.0	1312.8	1286.6	1267.1	1237.9	1217.5	1199.9	1179.5	1174.6	1181.5	1181.5
10°	1323.5	1328.4	1295.3	1268.1	1225.3	1192.2	1162.0	1135.7	1125.0	1125.0	1126.0
12.5°	1364.4	1361.5	1323.5	1281.7	1231.1	1178.5	1130.9	1095.8	1070.5	1069.5	1065.6
15°	1420.9	1410.2	1373.2	1309.9	1244.7	1177.6	1111.4	1056.9	1013.1	1001.4	996.6
17.5°	1481.2	1467.6	1422.8	1345.9	1266.1	1176.6	1089.0	1013.1	940.1	911.9	903.1
20°	1546.4	1529.9	1484.1	1387.8	1287.5	1169.8	1055.9	949.8	850.6	797.0	783.4
22.5°	1618.4	1604.8	1549.3	1430.6	1302.1	1155.2	1004.3	870.0	743.5	666.6	660.8
25°	1711.8	1699.2	1617.4	1468.6	1303.1	1127.9	936.2	767.9	609.2	518.7	500.2
27.5°	1823.8	1801.4	1671.9	1491.9	1287.5	1080.2	847.7	631.6	452.5	376.6	374.7
30°	1945.4	1904.5	1715.7	1497.7	1252.5	1004.3	726.0	464.2	321.2	269.6	269.6
32.5°	2088.5	2013.5	1760.5	1488.0	1195.1	899.2	555.7	322.1	220.9	196.6	196.6
35°	2297.7	2181.9	1817.9	1463.7	1114.3	754.2	395.1	213.1	174.2	171.3	171.3
37.5°	2628.6	2435.9	1895.8	1422.8	1003.4	575.2	256.9	164.5	166.4	166.4	165.4
40°	2980.9	2729.8	2002.8	1357.6	864.2	397.1	168.4	155.7	158.6	160.6	159.6
42.5°	3299.1	3009.1	2119.6	1270.0	699.7	250.1	153.8	149.9	147.9	149.9	150.8
45°	3574.5	3251.4	2237.4	1156.2	516.8	163.5	149.9	141.1	135.3	136.2	137.2
47.5°	3810.1	3442.2	2317.2	1036.5	342.6	145.0	145.0	129.4	123.6	123.6	123.6
50°	4016.4	3611.5	2365.8	893.4	204.4	143.1	136.2	118.7	112.9	111.9	112.9
52.5°	4166.2	3730.3	2360.0	719.2	137.2	138.2	124.6	109.0	102.2	104.1	105.1
55°	4285.0	3805.2	2308.4	526.5	128.5	129.4	115.8	98.3	93.4	94.4	94.4
57.5°	4359.9	3823.7	2203.3	342.6	125.5	115.8	104.1	87.6	81.7	81.7	81.7
60°	4384.2	3813.9	2060.3	219.0	124.6	104.1	94.4	78.8	73.0	73.0	73.0
62.5°	4363.8	3757.5	1817.9	157.7	115.8	97.3	85.6	70.1	64.2	62.3	62.3
65°	4290.8	3606.7	1401.4	130.4	104.1	89.5	77.9	63.3	55.5	52.6	51.6
67.5°	4077.7	3279.7	815.5	122.6	94.4	81.7	72.0	57.4	48.7	43.8	42.8
68°	4022.2	3182.3	670.5	121.6	94.4	80.8	71.0	55.5	46.7	41.8	40.9
70°	3625.1	2567.3	192.7	115.8	92.5	77.9	65.2	50.6	41.8	36.0	35.0
72.5°	2729.8	1504.6	120.7	103.2	91.5	69.1	63.3	50.6	37.0	31.1	29.2
75°	1524.0	342.6	102.2	76.9	85.6	68.1	62.3	45.7	33.1	25.3	24.3
77.5°	313.4	99.3	87.6	53.5	65.2	59.4	52.6	38.9	30.2	19.5	18.5
80°	88.6	74.0	77.9	38.9	37.0	41.8	38.9	34.1	22.4	14.6	14.6
82.5°	57.4	54.5	70.1	26.3	19.5	19.5	25.3	20.4	19.5	11.7	11.7
85°	35.0	45.7	34.1	11.7	9.7	7.8	8.8	8.8	11.7	7.8	7.8
87.5°	4.9	4.9	4.9	4.9	4.9	3.9	2.9	2.9	2.9	3.9	3.9
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)