

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: P233946

Luminaire Tested: **VERD-G-C029-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233946
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-C029-D-U-T4-8027-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12077 lumens
Efficiency: N/A
Efficacy: 99.8 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

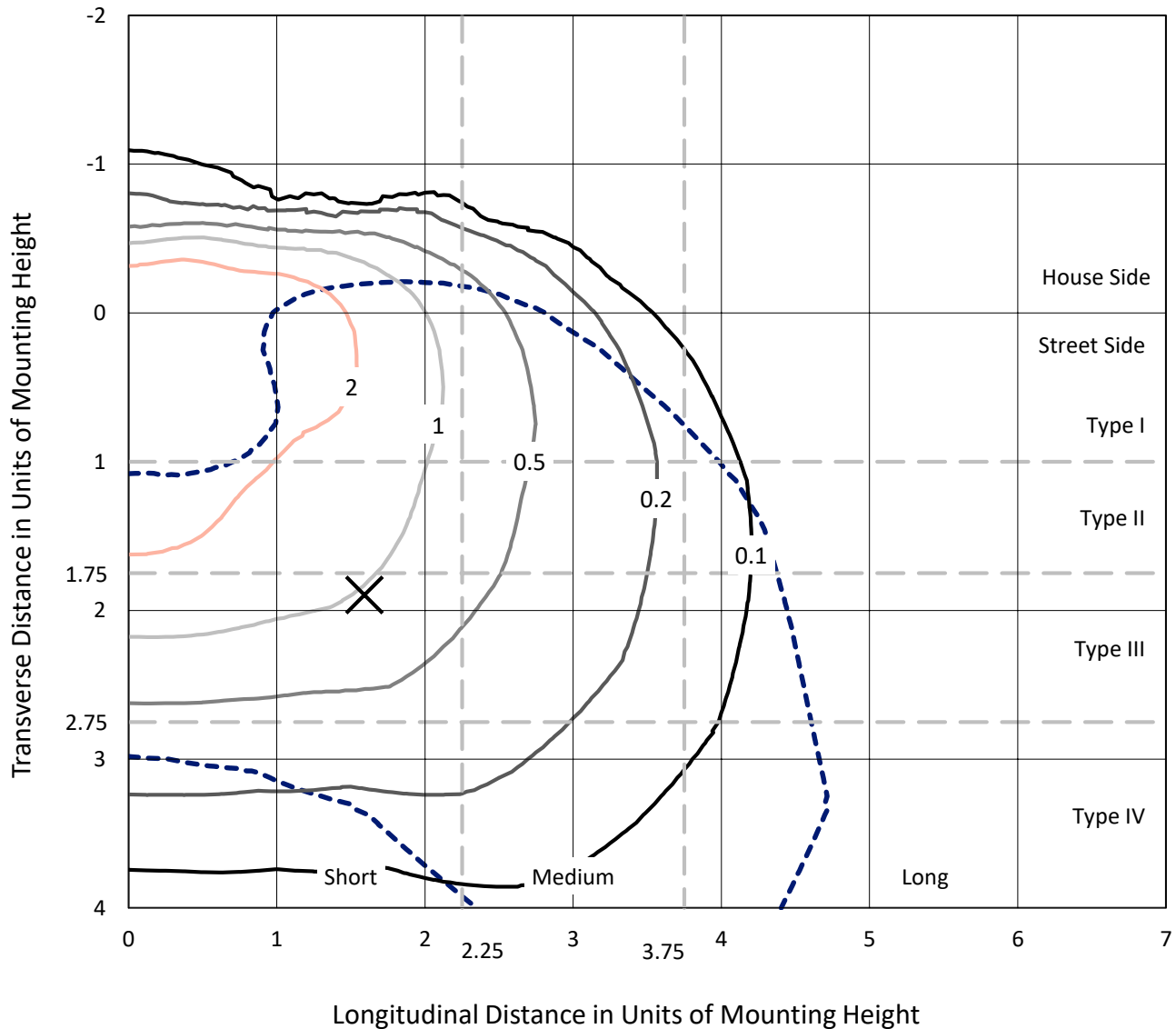
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

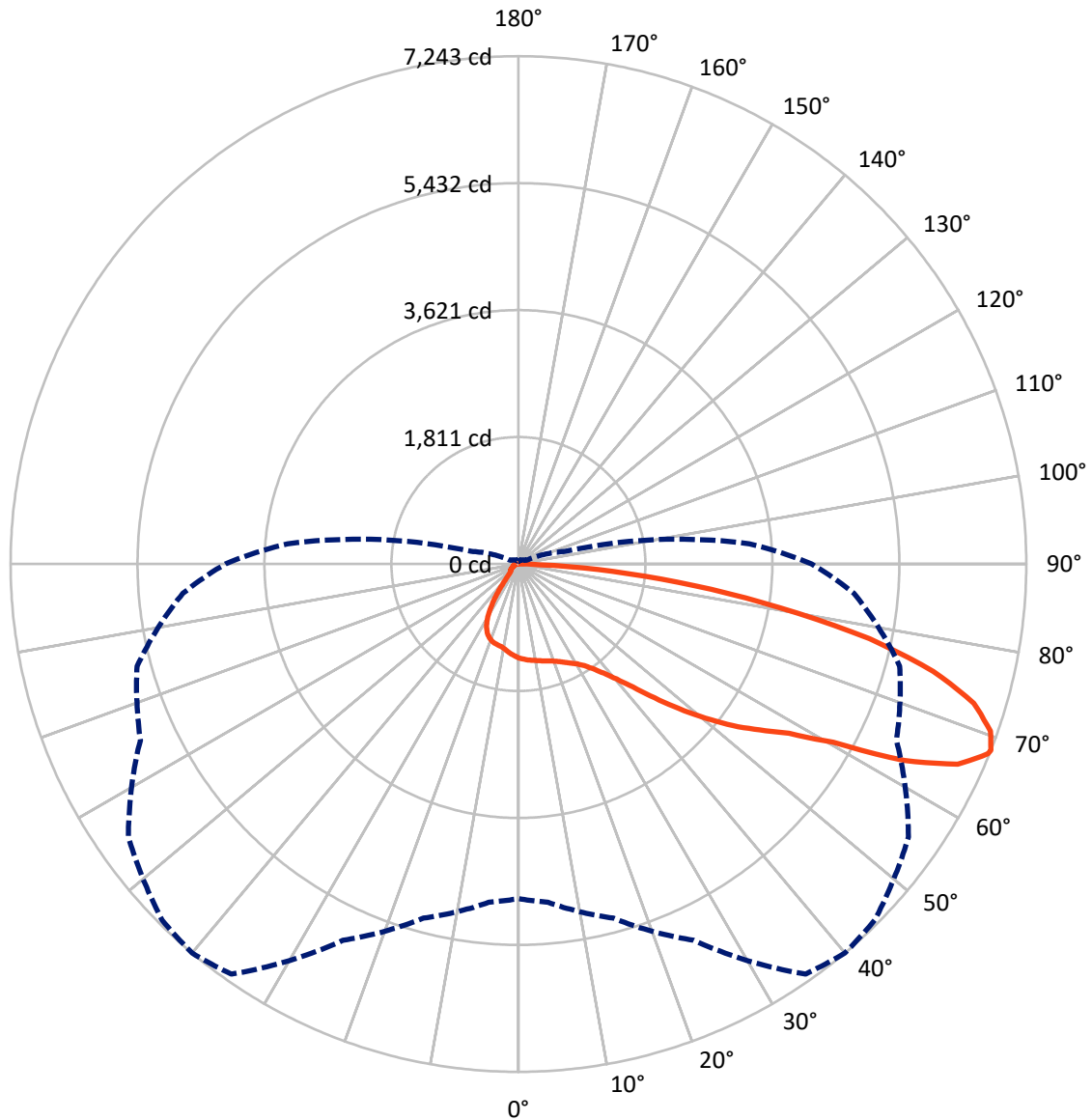
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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	1959.1	0.0	1959.1
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	10117.9	0.0	10117.9
	% Fixture	83.8	0.0	83.8
Total	Lumens	12077.0	0.0	12077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	1.1
10°-20°	381.3	3.2
20°-30°	640.0	5.3
30°-40°	947.8	7.8
40°-50°	1603.5	13.3
50°-60°	2447.2	20.3
60°-70°	3204.3	26.5
70°-80°	2303.7	19.1
80°-90°	421.7	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°	12077.0	100.0
0°-180°	12077.0	100.0



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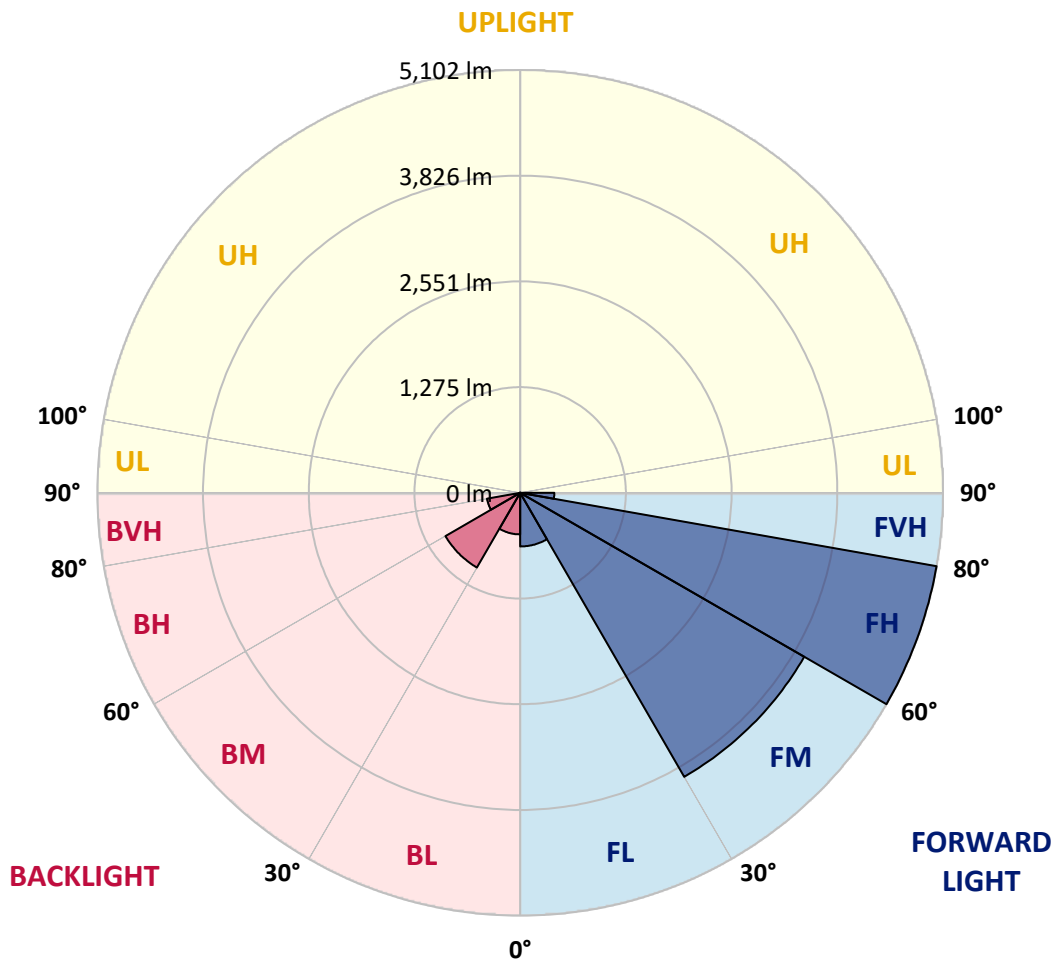
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.4	5.4			
FM	(30°-60°)	3957.3	32.8			
FH	(60°-80°)	5101.5	42.2			G3/7500
FVH	(80°-90°)	411.7	3.4			G3/500
BL	(0°-30°)	501.2	4.2	B2/1000		
BM	(30°-60°)	1041.3	8.6	B2/2500		
BH	(60°-80°)	406.6	3.4	B1/500		G1/500
BVH	(80°-90°)	10.0	0.1			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°	40°	45°	55°	65°	75°	85°
0°	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0
2.5°	1384.5	1387.5	1383.5	1373.3	1362.2	1356.1	1355.1	1354.1	1349.1	1342.0	1331.9
5°	1398.6	1399.6	1395.6	1387.5	1377.4	1375.4	1372.3	1373.3	1370.3	1363.2	1352.1
7.5°	1404.7	1406.7	1401.7	1393.6	1385.5	1385.5	1384.5	1387.5	1385.5	1382.4	1369.3
10°	1402.7	1405.7	1402.7	1399.6	1396.6	1399.6	1397.6	1404.7	1405.7	1405.7	1390.5
12.5°	1399.6	1403.7	1404.7	1407.7	1412.8	1415.8	1419.9	1435.0	1442.1	1447.2	1435.0
15°	1402.7	1404.7	1412.8	1417.8	1427.9	1435.0	1444.1	1469.4	1481.5	1495.7	1489.6
17.5°	1415.8	1420.9	1433.0	1438.1	1448.2	1453.2	1464.4	1495.7	1520.0	1545.3	1549.3
20°	1444.1	1447.2	1467.4	1469.4	1474.5	1479.5	1491.7	1526.0	1562.5	1598.9	1609.0
22.5°	1475.5	1482.6	1501.8	1498.7	1508.9	1510.9	1522.0	1559.4	1610.0	1654.5	1676.7
25°	1507.8	1513.9	1533.1	1535.1	1547.3	1555.4	1568.5	1604.9	1669.6	1726.3	1765.7
27.5°	1535.1	1547.3	1565.5	1567.5	1590.8	1600.9	1620.1	1661.6	1739.4	1809.2	1873.9
30°	1585.7	1588.7	1605.9	1612.0	1643.4	1652.5	1674.7	1727.3	1822.4	1909.3	2010.5
32.5°	1648.4	1647.4	1663.6	1673.7	1712.1	1728.3	1756.6	1817.3	1922.5	2030.7	2174.3
35°	1763.7	1753.6	1763.7	1773.8	1818.3	1835.5	1865.8	1956.9	2080.2	2264.3	2441.3
37.5°	2028.7	2013.5	1992.3	1941.7	1952.8	1975.1	2019.6	2142.9	2325.0	2666.8	2837.7
40°	2487.8	2454.4	2365.4	2231.9	2153.0	2155.1	2196.5	2358.3	2625.3	3127.9	3256.4
42.5°	2903.4	2880.2	2773.0	2589.9	2407.9	2397.8	2411.9	2601.0	2953.0	3555.7	3622.5
45°	3294.8	3305.9	3150.2	3006.6	2789.2	2722.4	2705.2	2859.9	3316.0	3937.0	3943.0
47.5°	3656.8	3675.0	3486.9	3351.4	3137.0	3079.4	3025.8	3132.0	3658.9	4261.6	4212.0
50°	4046.2	4060.3	3799.4	3688.2	3508.2	3454.6	3414.1	3460.7	4009.8	4563.0	4451.7
52.5°	4584.2	4505.3	4177.7	3993.6	3833.8	3829.8	3798.4	3827.8	4409.2	4834.0	4633.8
55°	5219.3	5013.0	4665.1	4370.8	4165.5	4176.6	4139.2	4187.8	4804.7	5066.6	4802.6
57.5°	5443.8	5438.7	5276.9	4994.8	4578.1	4552.8	4488.1	4542.7	5146.5	5284.0	4922.0
60°	5755.3	5782.6	5800.8	5630.9	5390.2	5160.6	4944.2	4939.2	5465.0	5482.2	4980.6
62.5°	5956.5	5981.8	6123.4	6101.1	6249.8	6174.0	5927.2	5380.1	5708.8	5610.7	5002.9
65°	5580.3	5643.0	6000.0	6272.0	6778.7	6884.9	6849.5	6057.7	5874.6	5648.1	4961.4
67.5°	4899.7	4981.6	5373.0	6009.1	7106.4	7224.7	7160.0	6740.3	5946.4	5631.9	4847.1
68°	4772.3	4843.1	5227.4	5921.1	7139.7	7242.9	7184.2	6790.8	5949.4	5629.9	4803.6
70°	4159.5	4217.1	4592.3	5470.1	7046.7	7142.8	7134.7	6838.4	5923.2	5567.2	4511.4
72.5°	3227.0	3284.7	3617.4	4536.7	6616.9	6792.9	6785.8	6648.3	5874.6	5247.6	3782.2
75°	2333.1	2396.8	2700.2	3485.9	5726.0	6113.3	6191.1	6322.6	5370.0	4416.3	2691.1
77.5°	1684.8	1731.3	1993.3	2633.4	4677.2	5120.2	5277.9	5410.4	4395.1	3219.0	1280.3
80°	1123.5	1156.9	1409.7	1957.9	3523.4	3784.3	3954.2	3732.7	2500.9	1164.0	138.5
82.5°	691.7	713.0	912.2	1373.3	2437.2	2519.1	2520.1	1991.2	806.0	111.2	74.8
85°	371.1	378.2	495.5	749.4	1287.4	1349.1	1324.8	836.3	162.8	59.7	40.5
87.5°	59.7	64.7	155.7	281.1	397.4	306.4	196.2	61.7	16.2	9.1	6.1
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°	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0	1342.0
2.5°	1336.9	1333.9	1325.8	1321.8	1311.6	1314.7	1314.7	1306.6	1310.6	1326.8	1324.8
5°	1349.1	1350.1	1330.9	1320.8	1298.5	1292.4	1283.3	1271.2	1270.2	1281.3	1282.3
7.5°	1359.2	1364.2	1336.9	1316.7	1286.4	1265.1	1246.9	1225.7	1220.6	1227.7	1227.7
10°	1375.4	1380.4	1346.0	1317.7	1273.2	1238.8	1207.5	1180.2	1169.1	1169.1	1170.1
12.5°	1417.8	1414.8	1375.4	1331.9	1279.3	1224.7	1175.1	1138.7	1112.4	1111.4	1107.4
15°	1476.5	1465.4	1426.9	1361.2	1293.4	1223.7	1154.9	1098.3	1052.8	1040.6	1035.6
17.5°	1539.2	1525.0	1478.5	1398.6	1315.7	1222.7	1131.6	1052.8	976.9	947.6	938.5
20°	1606.9	1589.8	1542.2	1442.1	1337.9	1215.6	1097.3	987.0	883.9	828.3	814.1
22.5°	1681.8	1667.6	1610.0	1486.6	1353.1	1200.4	1043.7	904.1	772.6	692.7	686.7
25°	1778.9	1765.7	1680.8	1526.0	1354.1	1172.1	972.9	797.9	633.1	539.0	519.8
27.5°	1895.2	1871.9	1737.4	1550.3	1337.9	1122.5	880.8	656.3	470.3	391.4	389.3
30°	2021.6	1979.1	1782.9	1556.4	1301.5	1043.7	754.4	482.4	333.7	280.1	280.1
32.5°	2170.2	2092.4	1829.4	1546.3	1241.9	934.4	577.4	334.7	229.6	204.3	204.3
35°	2387.7	2267.3	1889.1	1521.0	1157.9	783.8	410.6	221.5	181.0	178.0	178.0
37.5°	2731.5	2531.3	1970.0	1478.5	1042.6	597.7	267.0	170.9	172.9	172.9	171.9
40°	3097.6	2836.7	2081.2	1410.8	898.0	412.6	175.0	161.8	164.8	166.9	165.9
42.5°	3428.3	3126.9	2202.6	1319.7	727.1	259.9	159.8	155.7	153.7	155.7	156.8
45°	3714.5	3378.7	2325.0	1201.4	537.0	169.9	155.7	146.6	140.6	141.6	142.6
47.5°	3959.2	3576.9	2407.9	1077.0	356.0	150.7	150.7	134.5	128.4	128.4	128.4
50°	4173.6	3752.9	2458.5	928.4	212.4	148.7	141.6	123.4	117.3	116.3	117.3
52.5°	4329.4	3876.3	2452.4	747.3	142.6	143.6	129.4	113.3	106.2	108.2	109.2
55°	4452.7	3954.2	2398.8	547.1	133.5	134.5	120.3	102.1	97.1	98.1	98.1
57.5°	4530.6	3973.4	2289.6	356.0	130.5	120.3	108.2	91.0	84.9	84.9	84.9
60°	4555.9	3963.3	2140.9	227.5	129.4	108.2	98.1	81.9	75.8	75.8	75.8
62.5°	4534.6	3904.6	1889.1	163.8	120.3	101.1	89.0	72.8	66.7	64.7	64.7
65°	4458.8	3747.9	1456.3	135.5	108.2	93.0	80.9	65.7	57.6	54.6	53.6
67.5°	4237.3	3408.1	847.5	127.4	98.1	84.9	74.8	59.7	50.6	45.5	44.5
68°	4179.7	3306.9	696.8	126.4	98.1	83.9	73.8	57.6	48.5	43.5	42.5
70°	3767.1	2667.8	200.2	120.3	96.1	80.9	67.8	52.6	43.5	37.4	36.4
72.5°	2836.7	1563.5	125.4	107.2	95.1	71.8	65.7	52.6	38.4	32.4	30.3
75°	1583.7	356.0	106.2	79.9	89.0	70.8	64.7	47.5	34.4	26.3	25.3
77.5°	325.6	103.2	91.0	55.6	67.8	61.7	54.6	40.5	31.4	20.2	19.2
80°	92.0	76.9	80.9	40.5	38.4	43.5	40.5	35.4	23.3	15.2	15.2
82.5°	59.7	56.6	72.8	27.3	20.2	20.2	26.3	21.2	20.2	12.1	12.1
85°	36.4	47.5	35.4	12.1	10.1	8.1	9.1	9.1	12.1	8.1	8.1
87.5°	5.1	5.1	5.1	5.1	5.1	4.0	3.0	3.0	3.0	4.0	4.0
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)