

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: P233801

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233801
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-C02H6-D-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11845 lumens
Efficiency: N/A
Efficacy: 120.9 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

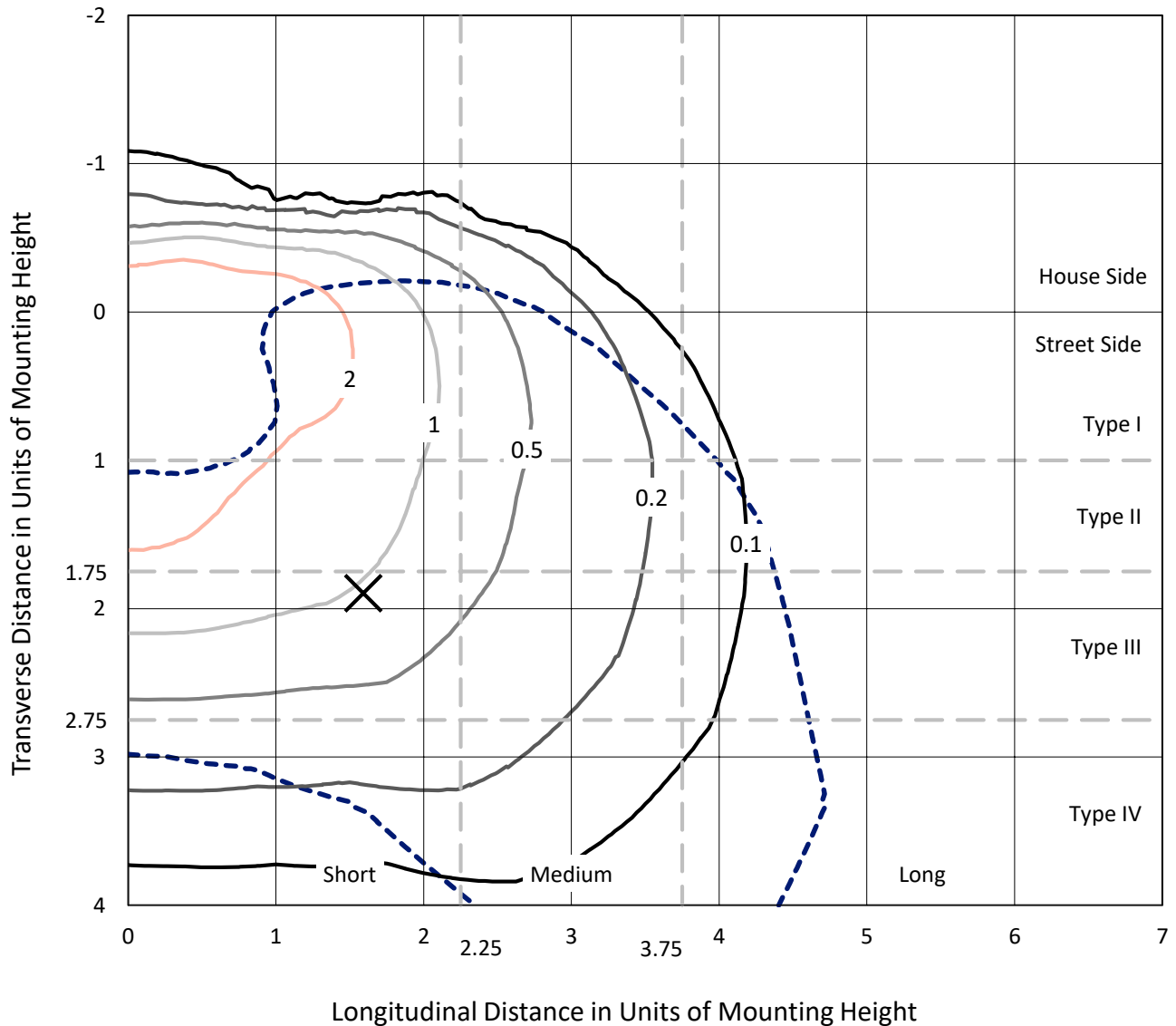


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

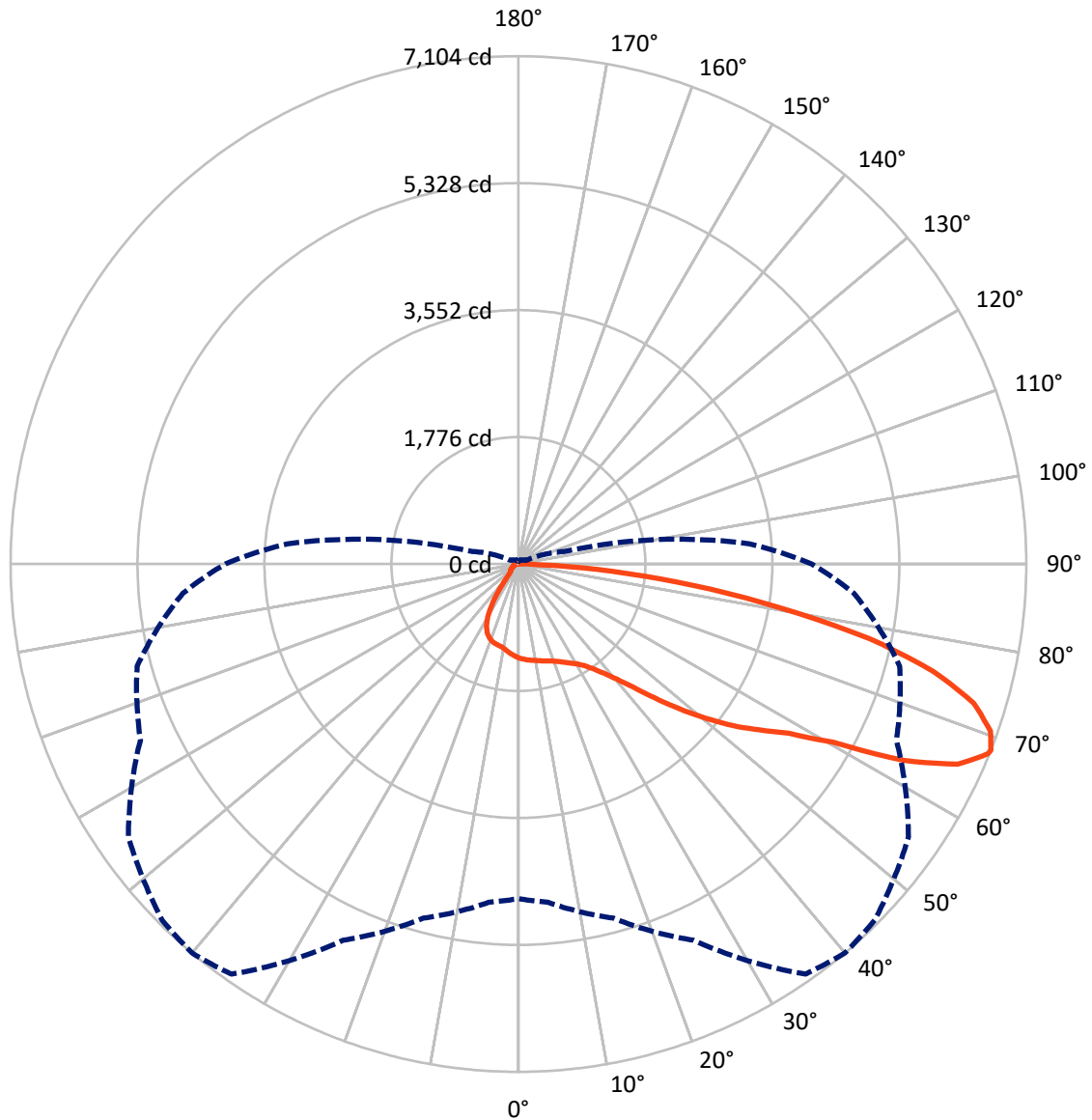


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Non-Cutoff

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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	1921.5	0.0	1921.5
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	9923.5	0.0	9923.5
	% Fixture	83.8	0.0	83.8
Total	Lumens	11845.0	0.0	11845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	1.1
10°-20°	374.0	3.2
20°-30°	627.7	5.3
30°-40°	929.6	7.8
40°-50°	1572.7	13.3
50°-60°	2400.2	20.3
60°-70°	3142.8	26.5
70°-80°	2259.5	19.1
80°-90°	413.6	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°	11845.0	100.0
0°-180°	11845.0	100.0

Coefficient of Utilization



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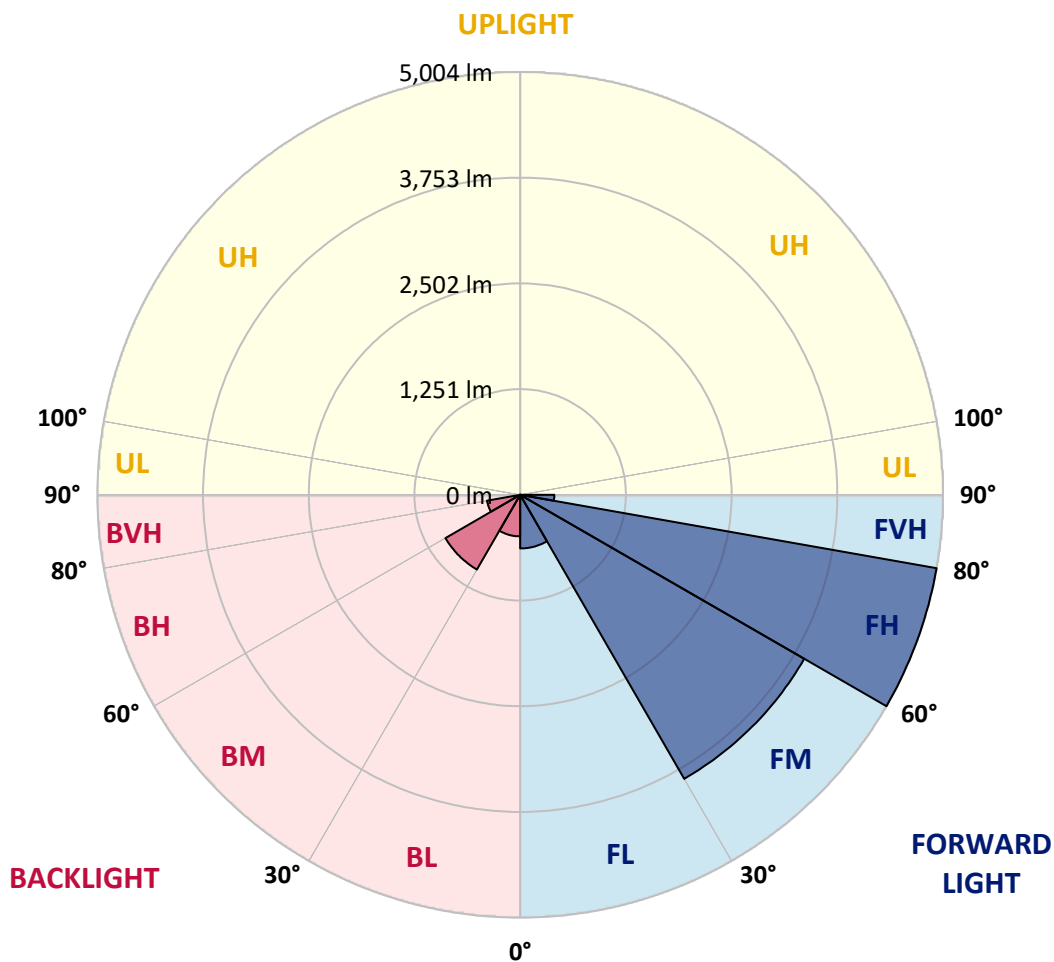
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	635.0	5.4			
FM	(30°-60°)	3881.2	32.8			
FH	(60°-80°)	5003.5	42.2			G3/7500
FVH	(80°-90°)	403.8	3.4			G3/500
BL	(0°-30°)	491.6	4.2	B1/500		
BM	(30°-60°)	1021.3	8.6	B2/2500		
BH	(60°-80°)	398.8	3.4	B1/500		G1/500
BVH	(80°-90°)	9.8	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°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1357.9	1360.8	1356.9	1347.0	1336.0	1330.1	1329.1	1328.1	1323.2	1316.2	1306.3
5°	1371.8	1372.7	1368.8	1360.8	1350.9	1348.9	1346.0	1347.0	1344.0	1337.0	1326.1
7.5°	1377.7	1379.7	1374.7	1366.8	1358.9	1358.9	1357.9	1360.8	1358.9	1355.9	1343.0
10°	1375.7	1378.7	1375.7	1372.7	1369.8	1372.7	1370.8	1377.7	1378.7	1378.7	1363.8
12.5°	1372.7	1376.7	1377.7	1380.7	1385.6	1388.6	1392.6	1407.5	1414.4	1419.4	1407.5
15°	1375.7	1377.7	1385.6	1390.6	1400.5	1407.5	1416.4	1441.2	1453.1	1467.0	1461.0
17.5°	1388.6	1393.6	1405.5	1410.4	1420.4	1425.3	1436.2	1467.0	1490.8	1515.6	1519.5
20°	1416.4	1419.4	1439.2	1441.2	1446.1	1451.1	1463.0	1496.7	1532.4	1568.1	1578.1
22.5°	1447.1	1454.1	1472.9	1469.9	1479.9	1481.9	1492.8	1529.5	1579.1	1622.7	1644.5
25°	1478.9	1484.8	1503.7	1505.7	1517.6	1525.5	1538.4	1574.1	1637.6	1693.1	1731.8
27.5°	1505.7	1517.6	1535.4	1537.4	1560.2	1570.1	1589.0	1629.6	1706.0	1774.5	1837.9
30°	1555.2	1558.2	1575.1	1581.0	1611.8	1620.7	1642.5	1694.1	1787.3	1872.6	1971.8
32.5°	1616.7	1615.8	1631.6	1641.5	1679.2	1695.1	1722.9	1782.4	1885.5	1991.7	2132.5
35°	1729.8	1719.9	1729.8	1739.7	1783.4	1800.2	1830.0	1919.3	2040.3	2220.8	2394.4
37.5°	1989.7	1974.8	1954.0	1904.4	1915.3	1937.1	1980.8	2101.8	2280.3	2615.6	2783.2
40°	2440.0	2407.3	2320.0	2189.1	2111.7	2113.7	2154.3	2313.0	2574.9	3067.8	3193.8
42.5°	2847.7	2824.8	2719.7	2540.2	2361.6	2351.7	2365.6	2551.1	2896.3	3487.4	3552.9
45°	3231.5	3242.4	3089.7	2948.8	2735.6	2670.1	2653.2	2805.0	3252.3	3861.3	3867.3
47.5°	3586.6	3604.4	3420.0	3287.0	3076.8	3020.2	2967.7	3071.8	3588.6	4179.7	4131.1
50°	3968.5	3982.3	3726.4	3617.3	3440.8	3388.2	3348.5	3394.2	3932.8	4475.3	4366.2
52.5°	4496.1	4418.8	4097.4	3916.9	3760.2	3756.2	3725.5	3754.2	4324.5	4741.1	4544.7
55°	5119.0	4916.7	4575.5	4286.9	4085.5	4096.4	4059.7	4107.3	4712.4	4969.3	4710.4
57.5°	5339.2	5334.3	5175.6	4898.8	4490.2	4465.4	4401.9	4455.5	5047.6	5182.5	4827.4
60°	5644.7	5671.5	5689.4	5522.7	5286.7	5061.5	4849.2	4844.3	5360.1	5376.9	4884.9
62.5°	5842.1	5866.9	6005.8	5983.9	6129.7	6055.4	5813.3	5276.7	5599.1	5502.9	4906.8
65°	5473.1	5534.6	5884.8	6151.6	6648.5	6752.6	6717.9	5941.3	5761.8	5539.6	4866.1
67.5°	4805.6	4885.9	5269.8	5893.7	6969.9	7085.9	7022.4	6610.8	5832.2	5523.7	4754.0
68°	4680.6	4750.1	5127.0	5807.4	7002.6	7103.8	7046.2	6660.4	5835.2	5521.7	4711.4
70°	4079.6	4136.1	4504.1	5365.0	6911.3	7005.6	6997.6	6707.0	5809.4	5460.2	4424.7
72.5°	3165.0	3221.6	3547.9	4449.5	6489.8	6662.4	6655.4	6520.5	5761.8	5146.8	3709.6
75°	2288.2	2350.7	2648.3	3419.0	5616.0	5995.8	6072.2	6201.2	5266.8	4331.5	2639.4
77.5°	1652.5	1698.1	1955.0	2582.8	4587.4	5021.8	5176.6	5306.5	4310.7	3157.1	1255.7
80°	1102.0	1134.7	1382.7	1920.3	3455.7	3711.6	3878.2	3661.0	2452.9	1141.6	135.9
82.5°	678.4	699.3	894.7	1347.0	2390.4	2470.7	2471.7	1953.0	790.5	109.1	73.4
85°	364.0	371.0	486.0	735.0	1262.6	1323.2	1299.3	820.3	159.7	58.5	39.7
87.5°	58.5	63.5	152.7	275.7	389.8	300.5	192.4	60.5	15.9	8.9	6.0
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°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1311.2	1308.3	1300.3	1296.4	1286.5	1289.4	1289.4	1281.5	1285.5	1301.3	1299.3
5°	1323.2	1324.1	1305.3	1295.4	1273.6	1267.6	1258.7	1246.8	1245.8	1256.7	1257.7
7.5°	1333.1	1338.0	1311.2	1291.4	1261.7	1240.8	1223.0	1202.1	1197.2	1204.1	1204.1
10°	1348.9	1353.9	1320.2	1292.4	1248.8	1215.0	1184.3	1157.5	1146.6	1146.6	1147.6
12.5°	1390.6	1387.6	1348.9	1306.3	1254.7	1201.2	1152.6	1116.8	1091.1	1090.1	1086.1
15°	1448.1	1437.2	1399.5	1335.1	1268.6	1200.2	1132.7	1077.2	1032.5	1020.6	1015.7
17.5°	1509.6	1495.7	1450.1	1371.8	1290.4	1199.2	1109.9	1032.5	958.1	929.4	920.5
20°	1576.1	1559.2	1512.6	1414.4	1312.2	1192.2	1076.2	968.1	866.9	812.3	798.5
22.5°	1649.5	1635.6	1579.1	1458.0	1327.1	1177.3	1023.6	886.7	757.8	679.4	673.5
25°	1744.7	1731.8	1648.5	1496.7	1328.1	1149.6	954.2	782.6	620.9	528.7	509.8
27.5°	1858.8	1835.9	1704.0	1520.5	1312.2	1101.0	863.9	643.7	461.2	383.9	381.9
30°	1982.7	1941.1	1748.7	1526.5	1276.5	1023.6	739.9	473.1	327.3	274.7	274.7
32.5°	2128.5	2052.2	1794.3	1516.6	1218.0	916.5	566.4	328.3	225.2	200.4	200.4
35°	2341.8	2223.8	1852.8	1491.8	1135.7	768.7	402.7	217.2	177.5	174.6	174.6
37.5°	2679.0	2482.6	1932.2	1450.1	1022.6	586.2	261.9	167.6	169.6	169.6	168.6
40°	3038.1	2782.2	2041.3	1383.7	880.8	404.7	171.6	158.7	161.7	163.7	162.7
42.5°	3362.4	3066.9	2160.3	1294.4	713.2	254.9	156.7	152.7	150.8	152.7	153.7
45°	3643.1	3313.8	2280.3	1178.3	526.7	166.6	152.7	143.8	137.9	138.9	139.9
47.5°	3883.2	3508.2	2361.6	1056.3	349.1	147.8	147.8	131.9	126.0	126.0	126.0
50°	4093.4	3680.8	2411.2	910.5	208.3	145.8	138.9	121.0	115.1	114.1	115.1
52.5°	4246.2	3801.8	2405.3	733.0	139.9	140.8	127.0	111.1	104.1	106.1	107.1
55°	4367.2	3878.2	2352.7	536.6	130.9	131.9	118.0	100.2	95.2	96.2	96.2
57.5°	4443.6	3897.0	2245.6	349.1	128.0	118.0	106.1	89.3	83.3	83.3	83.3
60°	4468.4	3887.1	2099.8	223.2	127.0	106.1	96.2	80.3	74.4	74.4	74.4
62.5°	4447.5	3829.6	1852.8	160.7	118.0	99.2	87.3	71.4	65.5	63.5	63.5
65°	4373.1	3675.9	1428.3	132.9	106.1	91.3	79.3	64.5	56.5	53.6	52.6
67.5°	4155.9	3342.6	831.2	125.0	96.2	83.3	73.4	58.5	49.6	44.6	43.6
68°	4099.4	3243.4	683.4	124.0	96.2	82.3	72.4	56.5	47.6	42.7	41.7
70°	3694.7	2616.5	196.4	118.0	94.2	79.3	66.5	51.6	42.7	36.7	35.7
72.5°	2782.2	1533.4	123.0	105.1	93.2	70.4	64.5	51.6	37.7	31.7	29.8
75°	1553.3	349.1	104.1	78.4	87.3	69.4	63.5	46.6	33.7	25.8	24.8
77.5°	319.4	101.2	89.3	54.6	66.5	60.5	53.6	39.7	30.7	19.8	18.8
80°	90.3	75.4	79.3	39.7	37.7	42.7	39.7	34.7	22.8	14.9	14.9
82.5°	58.5	55.5	71.4	26.8	19.8	19.8	25.8	20.8	19.8	11.9	11.9
85°	35.7	46.6	34.7	11.9	9.9	7.9	8.9	8.9	11.9	7.9	7.9
87.5°	5.0	5.0	5.0	5.0	5.0	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)