

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: P233788

Luminaire Tested: **VERD-C02H6-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233788
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-T4-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11527 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

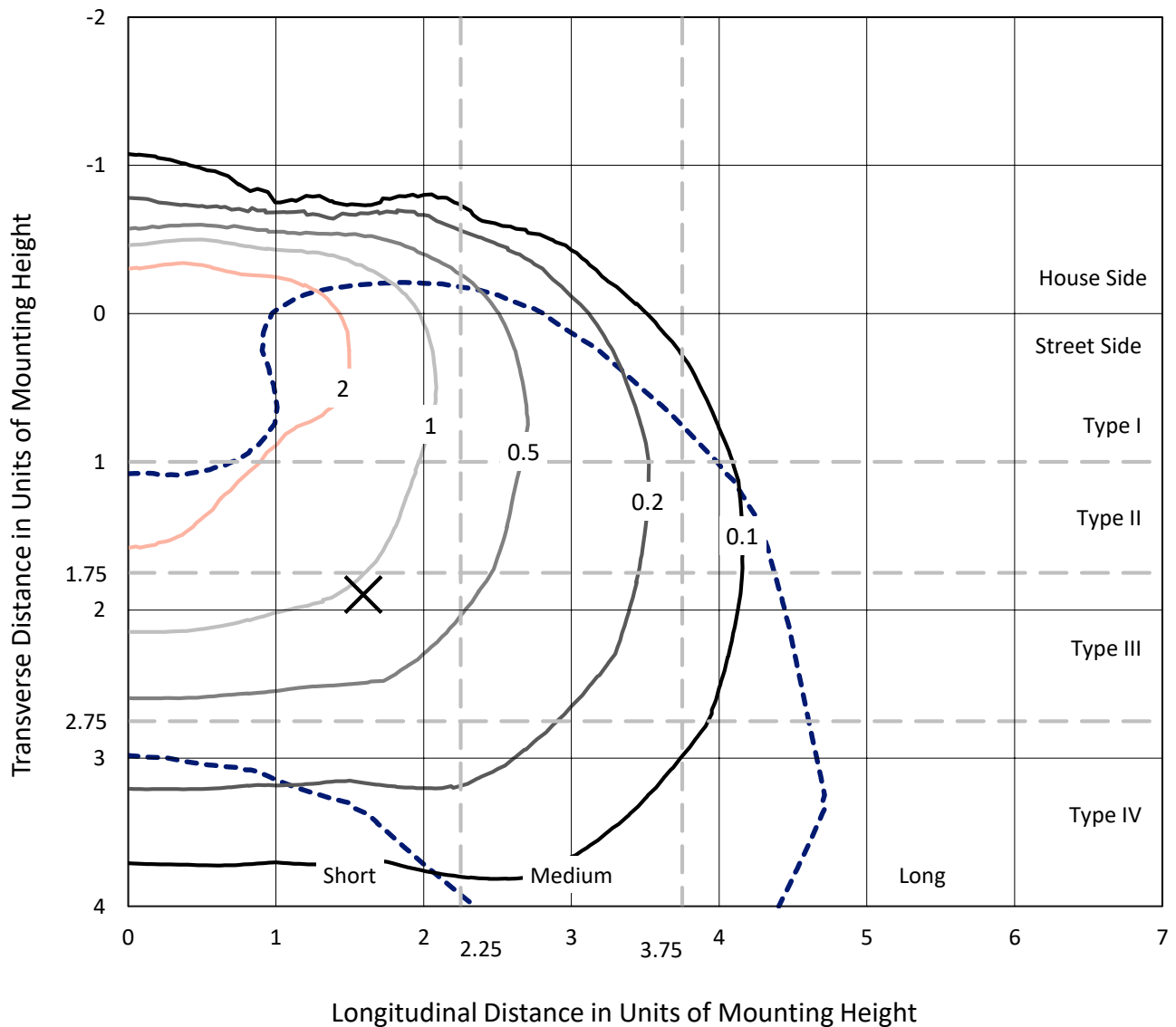
Input Watts (W): 98
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

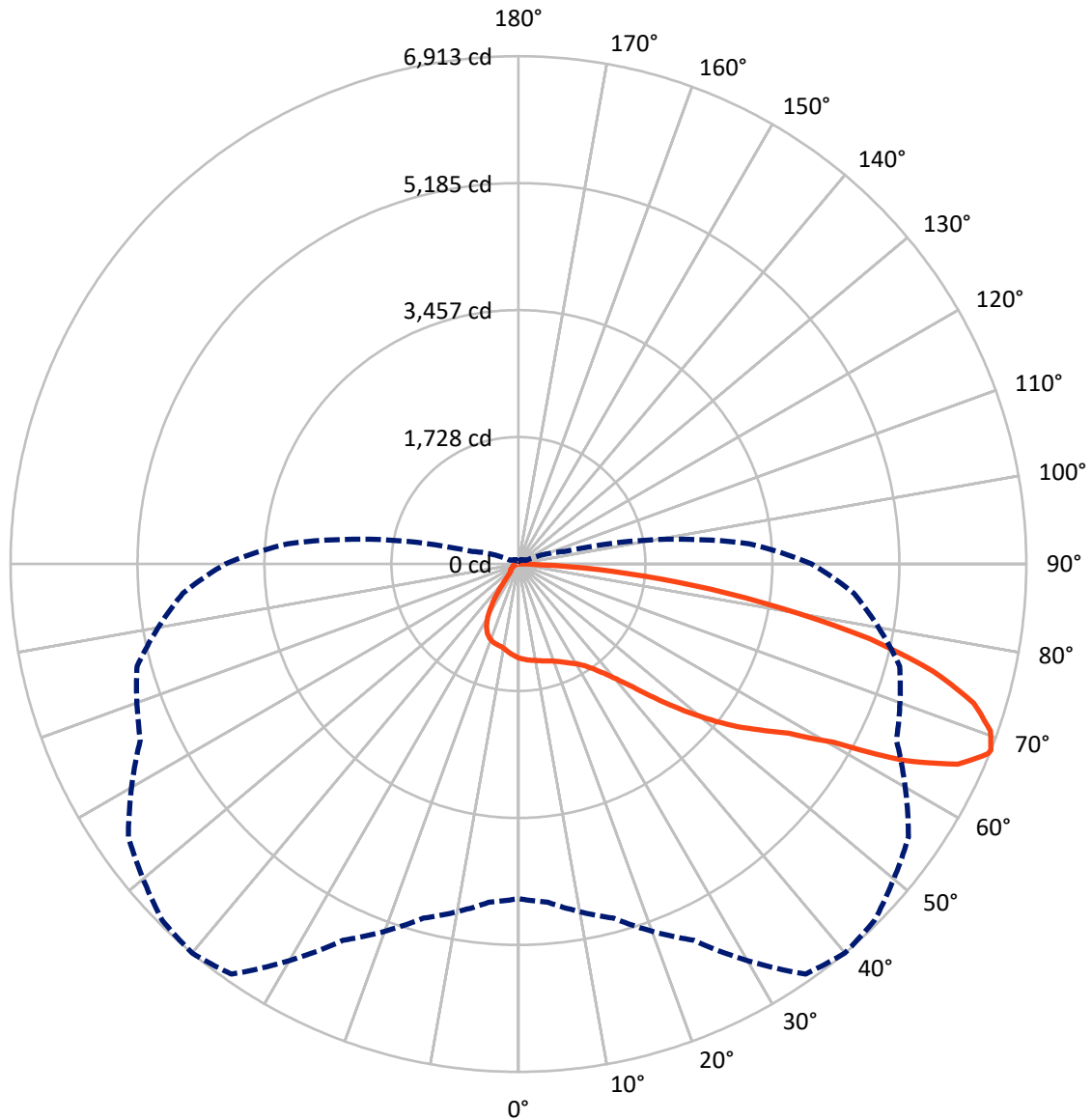


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1869.9	0.0	1869.9
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	9657.1	0.0	9657.1
	% Fixture	83.8	0.0	83.8
Total	Lumens	11527.0	0.0	11527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.1
10°-20°	364.0	3.2
20°-30°	610.9	5.3
30°-40°	904.7	7.8
40°-50°	1530.5	13.3
50°-60°	2335.8	20.3
60°-70°	3058.4	26.5
70°-80°	2198.8	19.1
80°-90°	402.5	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°	11527.0	100.0
0°-180°	11527.0	100.0

Coefficient of Utilization



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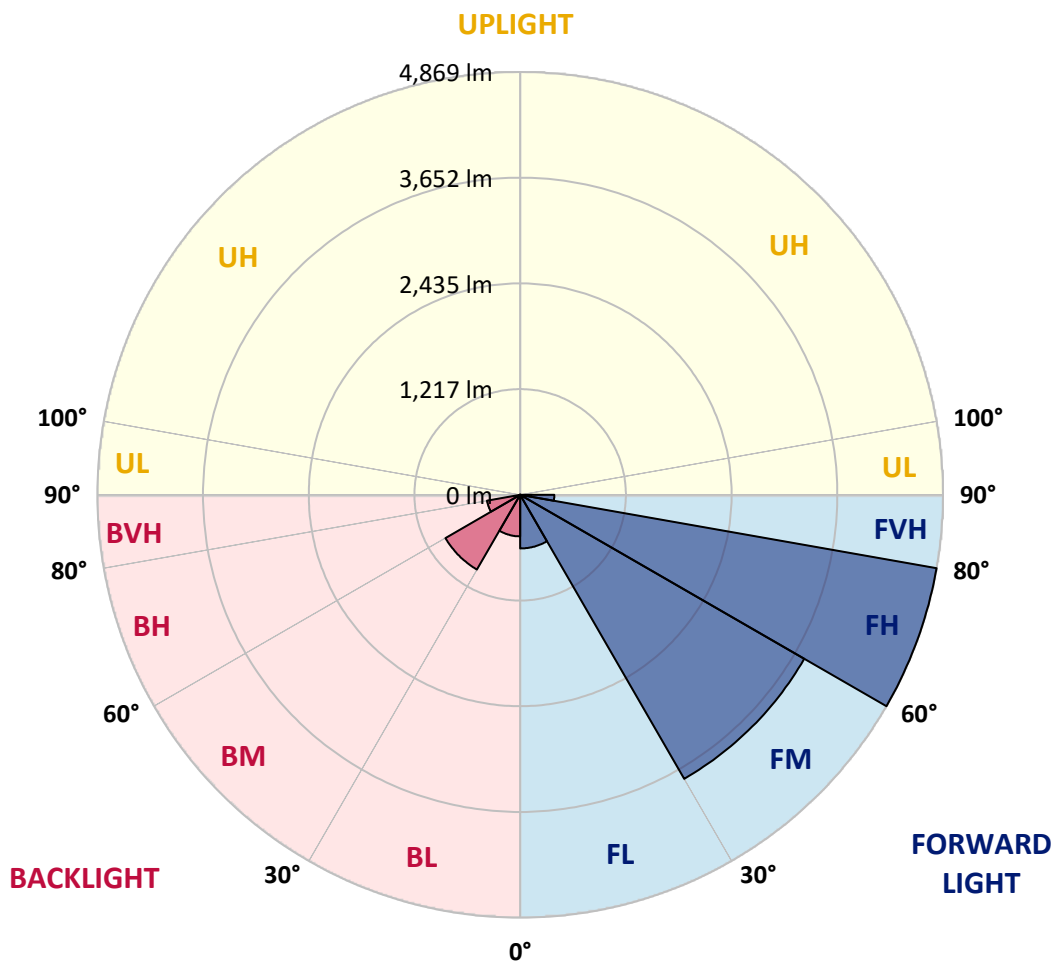
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	617.9	5.4			
FM	(30°-60°)	3777.0	32.8			
FH	(60°-80°)	4869.2	42.2			G2/5000
FVH	(80°-90°)	392.9	3.4			G3/500
BL	(0°-30°)	478.4	4.2	B1/500		
BM	(30°-60°)	993.9	8.6	B1/1000		
BH	(60°-80°)	388.1	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: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1321.4	1324.3	1320.4	1310.8	1300.2	1294.4	1293.4	1292.5	1287.6	1280.9	1271.2
5°	1334.9	1335.9	1332.0	1324.3	1314.7	1312.7	1309.8	1310.8	1307.9	1301.1	1290.5
7.5°	1340.7	1342.6	1337.8	1330.1	1322.4	1322.4	1321.4	1324.3	1322.4	1319.5	1306.9
10°	1338.8	1341.7	1338.8	1335.9	1333.0	1335.9	1334.0	1340.7	1341.7	1341.7	1327.2
12.5°	1335.9	1339.8	1340.7	1343.6	1348.4	1351.3	1355.2	1369.7	1376.4	1381.3	1369.7
15°	1338.8	1340.7	1348.4	1353.3	1362.9	1369.7	1378.4	1402.5	1414.1	1427.6	1421.8
17.5°	1351.3	1356.2	1367.7	1372.6	1382.2	1387.0	1397.7	1427.6	1450.8	1474.9	1478.7
20°	1378.4	1381.3	1400.6	1402.5	1407.3	1412.1	1423.7	1456.5	1491.3	1526.0	1535.7
22.5°	1408.3	1415.0	1433.4	1430.5	1440.1	1442.1	1452.7	1488.4	1536.7	1579.1	1600.4
25°	1439.2	1445.0	1463.3	1465.2	1476.8	1484.5	1497.1	1531.8	1593.6	1647.7	1685.3
27.5°	1465.2	1476.8	1494.2	1496.1	1518.3	1528.0	1546.3	1585.9	1660.2	1726.8	1788.6
30°	1513.5	1516.4	1532.8	1538.6	1568.5	1577.2	1598.4	1648.6	1739.4	1822.4	1918.9
32.5°	1573.3	1572.4	1587.8	1597.5	1634.1	1649.6	1676.6	1734.5	1834.9	1938.2	2075.3
35°	1683.4	1673.7	1683.4	1693.0	1735.5	1751.9	1780.9	1867.7	1985.5	2161.2	2330.1
37.5°	1936.3	1921.8	1901.5	1853.3	1863.9	1885.1	1927.6	2045.3	2219.1	2545.3	2708.5
40°	2374.5	2342.6	2257.7	2130.3	2055.0	2056.9	2096.5	2250.9	2505.8	2985.5	3108.1
42.5°	2771.2	2749.0	2646.7	2472.0	2298.2	2288.6	2302.1	2482.6	2818.5	3393.8	3457.5
45°	3144.7	3155.4	3006.7	2869.7	2662.1	2598.4	2582.0	2729.7	3165.0	3757.7	3763.5
47.5°	3490.3	3507.7	3328.1	3198.8	2994.2	2939.2	2888.0	2989.3	3492.2	4067.5	4020.2
50°	3861.9	3875.4	3626.4	3520.2	3348.4	3297.3	3258.6	3303.0	3827.2	4355.2	4249.0
52.5°	4375.4	4300.1	3987.4	3811.7	3659.2	3655.4	3625.4	3653.4	4208.4	4613.8	4422.7
55°	4981.6	4784.7	4452.6	4171.8	3975.8	3986.4	3950.7	3997.1	4585.9	4835.8	4583.9
57.5°	5195.9	5191.1	5036.6	4767.3	4369.6	4345.5	4283.7	4335.9	4912.1	5043.4	4697.8
60°	5493.2	5519.2	5536.6	5374.5	5144.7	4925.6	4719.1	4714.2	5216.2	5232.6	4753.8
62.5°	5685.3	5709.4	5844.5	5823.3	5965.2	5892.8	5657.3	5135.1	5448.8	5355.1	4775.0
65°	5326.2	5386.0	5726.8	5986.4	6470.0	6571.3	6537.6	5781.8	5607.1	5390.9	4735.5
67.5°	4676.6	4754.8	5128.3	5735.5	6782.7	6895.7	6833.9	6433.3	5675.6	5375.4	4626.4
68°	4555.0	4622.5	4989.3	5651.5	6814.6	6913.0	6857.1	6481.6	5678.5	5373.5	4584.9
70°	3970.0	4025.0	4383.2	5221.0	6725.8	6817.5	6809.8	6526.9	5653.4	5313.6	4305.9
72.5°	3080.1	3135.1	3452.7	4330.1	6315.6	6483.5	6476.8	6345.5	5607.1	5008.6	3610.0
75°	2226.8	2287.6	2577.2	3327.2	5465.2	5834.9	5909.2	6034.7	5125.4	4215.2	2568.5
77.5°	1608.1	1652.5	1902.5	2513.5	4464.2	4887.0	5037.6	5164.0	4194.9	3072.4	1222.0
80°	1072.4	1104.2	1345.5	1868.7	3362.9	3611.9	3774.1	3562.7	2387.0	1111.0	132.2
82.5°	660.2	680.5	870.6	1310.8	2326.2	2404.4	2405.4	1900.6	769.3	106.2	71.4
85°	354.2	361.0	473.0	715.2	1228.7	1287.6	1264.5	798.3	155.4	56.9	38.6
87.5°	56.9	61.8	148.6	268.3	379.3	292.5	187.3	58.9	15.4	8.7	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°	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1276.0	1273.2	1265.4	1261.6	1251.9	1254.8	1254.8	1247.1	1250.9	1266.4	1264.5
5°	1287.6	1288.6	1270.3	1260.6	1239.4	1233.6	1224.9	1213.3	1212.3	1223.0	1223.9
7.5°	1297.3	1302.1	1276.0	1256.7	1227.8	1207.5	1190.1	1169.9	1165.0	1171.8	1171.8
10°	1312.7	1317.6	1284.7	1257.7	1215.2	1182.4	1152.5	1126.4	1115.8	1115.8	1116.8
12.5°	1353.3	1350.4	1312.7	1271.2	1221.0	1168.9	1121.6	1086.9	1061.8	1060.8	1056.9
15°	1409.2	1398.6	1362.0	1299.2	1234.5	1167.9	1102.3	1048.2	1004.8	993.2	988.4
17.5°	1469.1	1455.6	1411.2	1334.9	1255.8	1167.0	1080.1	1004.8	932.4	904.4	895.7
20°	1533.8	1517.4	1472.0	1376.4	1277.0	1160.2	1047.3	942.1	843.6	790.5	777.0
22.5°	1605.2	1591.7	1536.7	1418.9	1291.5	1145.7	996.1	862.9	737.4	661.2	655.4
25°	1697.9	1685.3	1604.2	1456.5	1292.5	1118.7	928.6	761.6	604.2	514.5	496.1
27.5°	1808.9	1786.7	1658.3	1479.7	1277.0	1071.4	840.7	626.4	448.8	373.5	371.6
30°	1929.5	1889.0	1701.7	1485.5	1242.3	996.1	720.1	460.4	318.5	267.4	267.4
32.5°	2071.4	1997.1	1746.1	1475.9	1185.3	891.9	551.2	319.5	219.1	195.0	195.0
35°	2278.9	2164.1	1803.1	1451.7	1105.2	748.1	391.9	211.4	172.8	169.9	169.9
37.5°	2607.1	2416.0	1880.3	1411.2	995.2	570.5	254.8	163.1	165.1	165.1	164.1
40°	2956.5	2707.5	1986.5	1346.5	857.1	393.8	167.0	154.4	157.3	159.3	158.3
42.5°	3272.2	2984.5	2102.3	1259.6	694.0	248.1	152.5	148.6	146.7	148.6	149.6
45°	3545.3	3224.9	2219.1	1146.7	512.5	162.2	148.6	140.0	134.2	135.1	136.1
47.5°	3778.9	3414.1	2298.2	1028.0	339.8	143.8	143.8	128.4	122.6	122.6	122.6
50°	3983.5	3582.0	2346.5	886.1	202.7	141.9	135.1	117.8	112.0	111.0	112.0
52.5°	4132.2	3699.8	2340.7	713.3	136.1	137.1	123.6	108.1	101.4	103.3	104.2
55°	4249.9	3774.1	2289.5	522.2	127.4	128.4	114.9	97.5	92.7	93.6	93.6
57.5°	4324.3	3792.4	2185.3	339.8	124.5	114.9	103.3	86.9	81.1	81.1	81.1
60°	4348.4	3782.8	2043.4	217.2	123.6	103.3	93.6	78.2	72.4	72.4	72.4
62.5°	4328.1	3726.8	1803.1	156.4	114.9	96.5	84.9	69.5	63.7	61.8	61.8
65°	4255.7	3577.2	1389.9	129.3	103.3	88.8	77.2	62.7	55.0	52.1	51.2
67.5°	4044.4	3252.9	808.9	121.6	93.6	81.1	71.4	56.9	48.3	43.4	42.5
68°	3989.3	3156.3	665.0	120.7	93.6	80.1	70.5	55.0	46.3	41.5	40.5
70°	3595.5	2546.3	191.1	114.9	91.7	77.2	64.7	50.2	41.5	35.7	34.7
72.5°	2707.5	1492.3	119.7	102.3	90.7	68.5	62.7	50.2	36.7	30.9	29.0
75°	1511.6	339.8	101.4	76.3	84.9	67.6	61.8	45.4	32.8	25.1	24.1
77.5°	310.8	98.5	86.9	53.1	64.7	58.9	52.1	38.6	29.9	19.3	18.3
80°	87.8	73.4	77.2	38.6	36.7	41.5	38.6	33.8	22.2	14.5	14.5
82.5°	56.9	54.1	69.5	26.1	19.3	19.3	25.1	20.3	19.3	11.6	11.6
85°	34.7	45.4	33.8	11.6	9.7	7.7	8.7	8.7	11.6	7.7	7.7
87.5°	4.8	4.8	4.8	4.8	4.8	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)