

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: P233775

Luminaire Tested: **VERD-C02H6-D-U-T4-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233775  
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-T4-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10438 lumens  
Efficiency: N/A  
Efficacy: 106.5 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

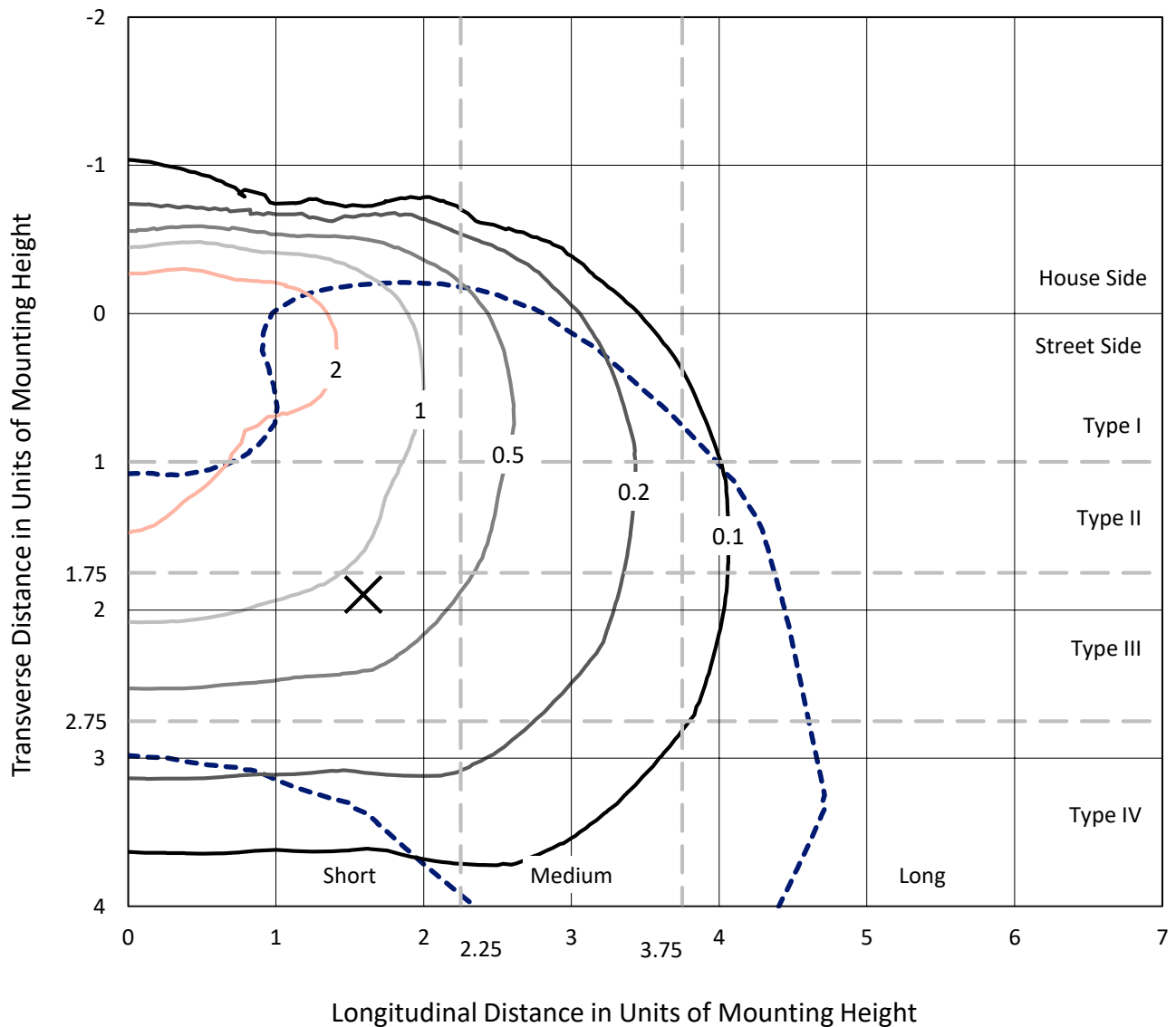


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

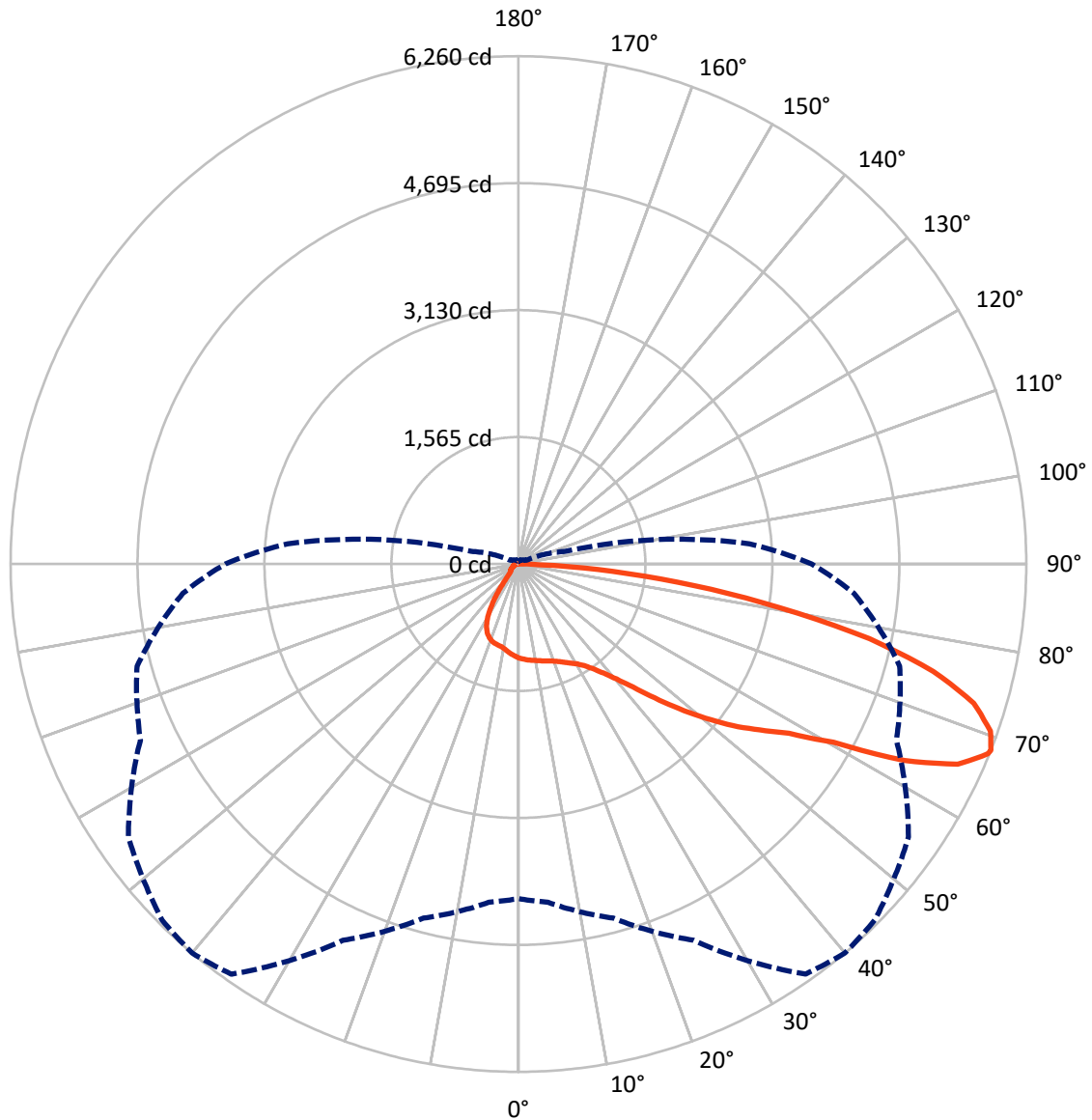


Based on 20 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1693.3	0.0	1693.3
	% Fixture	16.2	0.0	16.2
<b>Street Side</b>	Lumens	8744.7	0.0	8744.7
	% Fixture	83.8	0.0	83.8
<b>Total</b>	Lumens	10438.0	0.0	10438.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	1.1
10°-20°	329.6	3.2
20°-30°	553.1	5.3
30°-40°	819.2	7.8
40°-50°	1385.9	13.3
50°-60°	2115.1	20.3
60°-70°	2769.5	26.5
70°-80°	1991.1	19.1
80°-90°	364.5	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°	10438.0	100.0
0°-180°	10438.0	100.0



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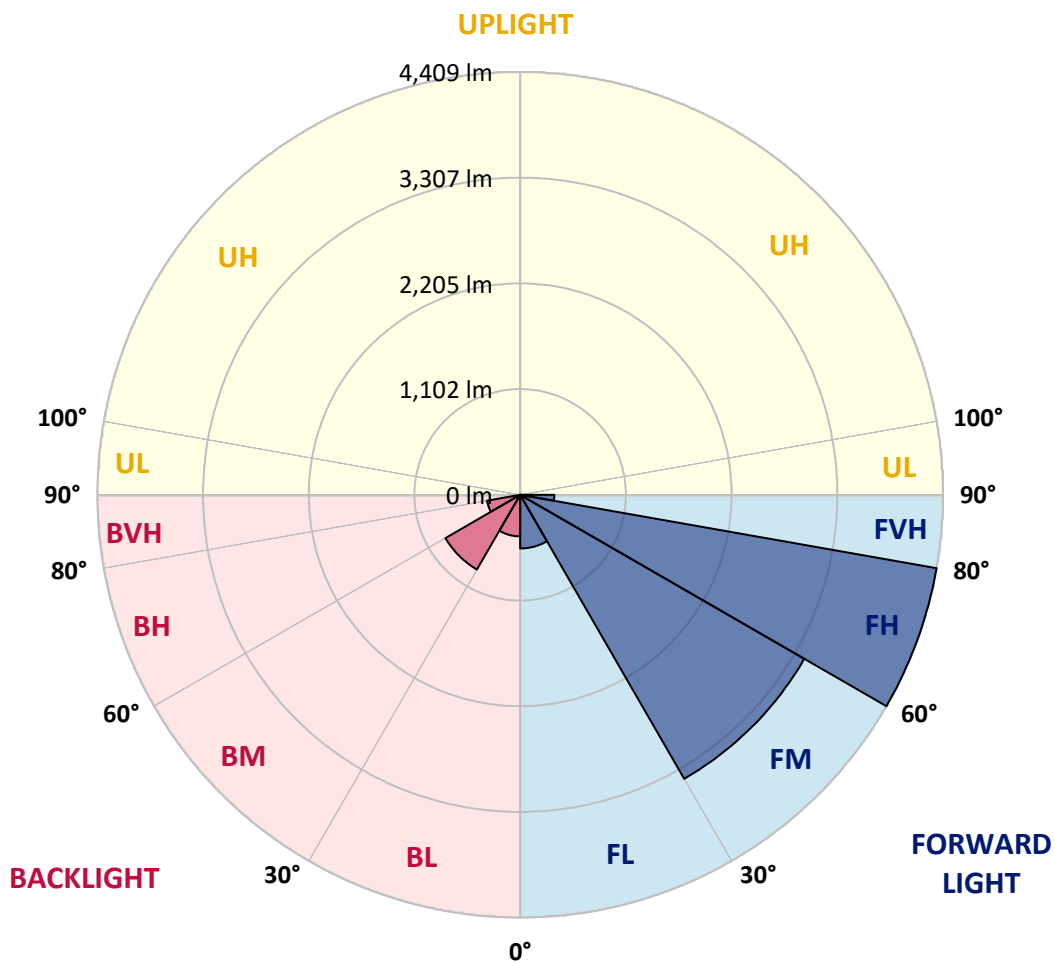
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	559.6	5.4			
FM	(30°-60°)	3420.2	32.8			
FH	(60°-80°)	4409.2	42.2			G2/5000
FVH	(80°-90°)	355.8	3.4			G3/500
BL	(0°-30°)	433.2	4.2	B1/500		
BM	(30°-60°)	900.0	8.6	B1/1000		
BH	(60°-80°)	351.4	3.4	B1/500		G1/500
BVH	(80°-90°)	8.7	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°	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9
2.5°	1196.6	1199.2	1195.7	1187.0	1177.3	1172.1	1171.2	1170.4	1166.0	1159.9	1151.1
5°	1208.8	1209.7	1206.2	1199.2	1190.5	1188.7	1186.1	1187.0	1184.3	1178.2	1168.6
7.5°	1214.1	1215.8	1211.4	1204.4	1197.4	1197.4	1196.6	1199.2	1197.4	1194.8	1183.5
10°	1212.3	1214.9	1212.3	1209.7	1207.1	1209.7	1207.9	1214.1	1214.9	1214.9	1201.8
12.5°	1209.7	1213.2	1214.1	1216.7	1221.0	1223.7	1227.2	1240.3	1246.4	1250.8	1240.3
15°	1212.3	1214.1	1221.0	1225.4	1234.2	1240.3	1248.1	1270.0	1280.5	1292.7	1287.5
17.5°	1223.7	1228.0	1238.5	1242.9	1251.6	1256.0	1265.6	1292.7	1313.7	1335.5	1339.0
20°	1248.1	1250.8	1268.2	1270.0	1274.4	1278.7	1289.2	1318.9	1350.4	1381.9	1390.6
22.5°	1275.2	1281.4	1298.0	1295.3	1304.1	1305.8	1315.4	1347.8	1391.5	1429.9	1449.2
25°	1303.2	1308.5	1325.1	1326.8	1337.3	1344.3	1355.7	1387.1	1443.1	1492.0	1526.1
27.5°	1326.8	1337.3	1353.0	1354.8	1374.9	1383.6	1400.2	1436.1	1503.4	1563.7	1619.6
30°	1370.5	1373.1	1388.0	1393.2	1420.3	1428.2	1447.4	1492.9	1575.0	1650.2	1737.6
32.5°	1424.7	1423.8	1437.8	1446.6	1479.8	1493.8	1518.2	1570.7	1661.6	1755.1	1879.2
35°	1524.3	1515.6	1524.3	1533.1	1571.5	1586.4	1612.6	1691.3	1797.9	1957.0	2110.0
37.5°	1753.3	1740.2	1721.9	1678.2	1687.8	1707.0	1745.5	1852.1	2009.4	2304.9	2452.6
40°	2150.2	2121.3	2044.4	1929.0	1860.9	1862.6	1898.4	2038.3	2269.0	2703.4	2814.4
42.5°	2509.4	2489.3	2396.6	2238.4	2081.1	2072.4	2084.6	2248.1	2552.2	3073.2	3130.8
45°	2847.7	2857.3	2722.7	2598.5	2410.6	2352.9	2338.1	2471.8	2866.0	3402.7	3407.9
47.5°	3160.6	3176.3	3013.7	2896.6	2711.3	2661.5	2615.2	2706.9	3162.3	3683.2	3640.4
50°	3497.1	3509.3	3283.8	3187.7	3032.1	2985.8	2950.8	2991.0	3465.6	3943.7	3847.6
52.5°	3962.1	3893.9	3610.7	3451.6	3313.5	3310.0	3282.9	3308.3	3810.9	4178.0	4004.9
55°	4511.0	4332.7	4032.0	3777.6	3600.2	3609.8	3577.5	3619.4	4152.6	4379.0	4150.9
57.5°	4705.0	4700.6	4560.8	4316.9	3956.8	3935.0	3879.0	3926.2	4448.0	4566.9	4254.0
60°	4974.2	4997.8	5013.5	4866.7	4658.7	4460.3	4273.2	4268.9	4723.4	4738.2	4304.7
62.5°	5148.2	5170.0	5292.4	5273.1	5401.6	5336.1	5122.8	4649.9	4934.0	4849.2	4323.9
65°	4823.0	4877.2	5185.7	5420.9	5858.8	5950.5	5919.9	5235.6	5077.4	4881.6	4288.1
67.5°	4234.8	4305.6	4643.8	5193.6	6141.9	6244.2	6188.3	5825.5	5139.4	4867.6	4189.3
68°	4124.6	4185.8	4518.0	5117.6	6170.8	6259.9	6209.2	5869.2	5142.0	4865.8	4151.7
70°	3595.0	3644.8	3969.1	4727.7	6090.4	6173.4	6166.4	5910.3	5119.3	4811.6	3899.1
72.5°	2789.1	2838.9	3126.5	3921.0	5718.9	5871.0	5864.9	5746.0	5077.4	4535.4	3268.9
75°	2016.4	2071.5	2333.7	3012.8	4948.9	5283.6	5350.9	5464.6	4641.2	3817.0	2325.8
77.5°	1456.2	1496.4	1722.8	2276.0	4042.5	4425.3	4561.7	4676.2	3798.6	2782.1	1106.5
80°	971.1	999.9	1218.4	1692.2	3045.2	3270.7	3417.5	3226.1	2161.5	1006.0	119.7
82.5°	597.8	616.2	788.4	1187.0	2106.5	2177.3	2178.1	1721.0	696.6	96.1	64.7
85°	320.8	326.9	428.3	647.7	1112.7	1166.0	1145.0	722.8	140.7	51.6	35.0
87.5°	51.6	55.9	134.6	243.0	343.5	264.8	169.6	53.3	14.0	7.9	5.2
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°	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9
2.5°	1155.5	1152.9	1145.9	1142.4	1133.6	1136.3	1136.3	1129.3	1132.8	1146.8	1145.0
5°	1166.0	1166.9	1150.2	1141.5	1122.3	1117.0	1109.2	1098.7	1097.8	1107.4	1108.3
7.5°	1174.7	1179.1	1155.5	1138.0	1111.8	1093.4	1077.7	1059.3	1055.0	1061.1	1061.1
10°	1188.7	1193.1	1163.4	1138.9	1100.4	1070.7	1043.6	1020.0	1010.4	1010.4	1011.3
12.5°	1225.4	1222.8	1188.7	1151.1	1105.7	1058.5	1015.6	984.2	961.5	960.6	957.1
15°	1276.1	1266.5	1233.3	1176.5	1117.9	1057.6	998.2	949.2	909.9	899.4	895.0
17.5°	1330.3	1318.1	1277.9	1208.8	1137.1	1056.7	978.1	909.9	844.3	819.0	811.1
20°	1388.9	1374.0	1332.9	1246.4	1156.4	1050.6	948.3	853.1	763.9	715.8	703.6
22.5°	1453.5	1441.3	1391.5	1284.9	1169.5	1037.5	902.0	781.4	667.8	598.7	593.5
25°	1537.5	1526.1	1452.7	1318.9	1170.4	1013.0	840.8	689.6	547.2	465.9	449.3
27.5°	1638.0	1617.9	1501.6	1339.9	1156.4	970.2	761.3	567.3	406.4	338.3	336.5
30°	1747.2	1710.5	1540.9	1345.2	1124.9	902.0	652.0	416.9	288.4	242.1	242.1
32.5°	1875.7	1808.4	1581.2	1336.4	1073.3	807.6	499.1	289.3	198.4	176.6	176.6
35°	2063.6	1959.6	1632.7	1314.6	1000.8	677.4	354.9	191.4	156.5	153.8	153.8
37.5°	2360.8	2187.7	1702.6	1277.9	901.1	516.6	230.7	147.7	149.5	149.5	148.6
40°	2677.2	2451.7	1798.8	1219.3	776.2	356.6	151.2	139.8	142.5	144.2	143.3
42.5°	2963.0	2702.6	1903.7	1140.6	628.4	224.6	138.1	134.6	132.9	134.6	135.5
45°	3210.4	2920.2	2009.4	1038.4	464.1	146.8	134.6	126.7	121.5	122.4	123.2
47.5°	3421.9	3091.5	2081.1	930.9	307.7	130.2	130.2	116.2	111.0	111.0	111.0
50°	3607.2	3243.6	2124.8	802.4	183.6	128.5	122.4	106.6	101.4	100.5	101.4
52.5°	3741.8	3350.2	2119.6	645.9	123.2	124.1	111.9	97.9	91.8	93.5	94.4
55°	3848.4	3417.5	2073.2	472.9	115.4	116.2	104.0	88.3	83.9	84.8	84.8
57.5°	3915.7	3434.1	1978.8	307.7	112.8	104.0	93.5	78.7	73.4	73.4	73.4
60°	3937.6	3425.4	1850.4	196.7	111.9	93.5	84.8	70.8	65.6	65.6	65.6
62.5°	3919.2	3374.7	1632.7	141.6	104.0	87.4	76.9	62.9	57.7	55.9	55.9
65°	3853.7	3239.2	1258.6	117.1	93.5	80.4	69.9	56.8	49.8	47.2	46.3
67.5°	3662.3	2945.5	732.5	110.1	84.8	73.4	64.7	51.6	43.7	39.3	38.5
68°	3612.4	2858.1	602.2	109.3	84.8	72.5	63.8	49.8	42.0	37.6	36.7
70°	3255.8	2305.7	173.1	104.0	83.0	69.9	58.6	45.5	37.6	32.3	31.5
72.5°	2451.7	1351.3	108.4	92.6	82.2	62.1	56.8	45.5	33.2	28.0	26.2
75°	1368.8	307.7	91.8	69.0	76.9	61.2	55.9	41.1	29.7	22.7	21.9
77.5°	281.4	89.2	78.7	48.1	58.6	53.3	47.2	35.0	27.1	17.5	16.6
80°	79.5	66.4	69.9	35.0	33.2	37.6	35.0	30.6	20.1	13.1	13.1
82.5°	51.6	48.9	62.9	23.6	17.5	17.5	22.7	18.4	17.5	10.5	10.5
85°	31.5	41.1	30.6	10.5	8.7	7.0	7.9	7.9	10.5	7.0	7.0
87.5°	4.4	4.4	4.4	4.4	4.4	3.5	2.6	2.6	2.6	3.5	3.5
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)