

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: P233721

Luminaire Tested: **VERD-C029-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C029-D-U-T3-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1030mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8247 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

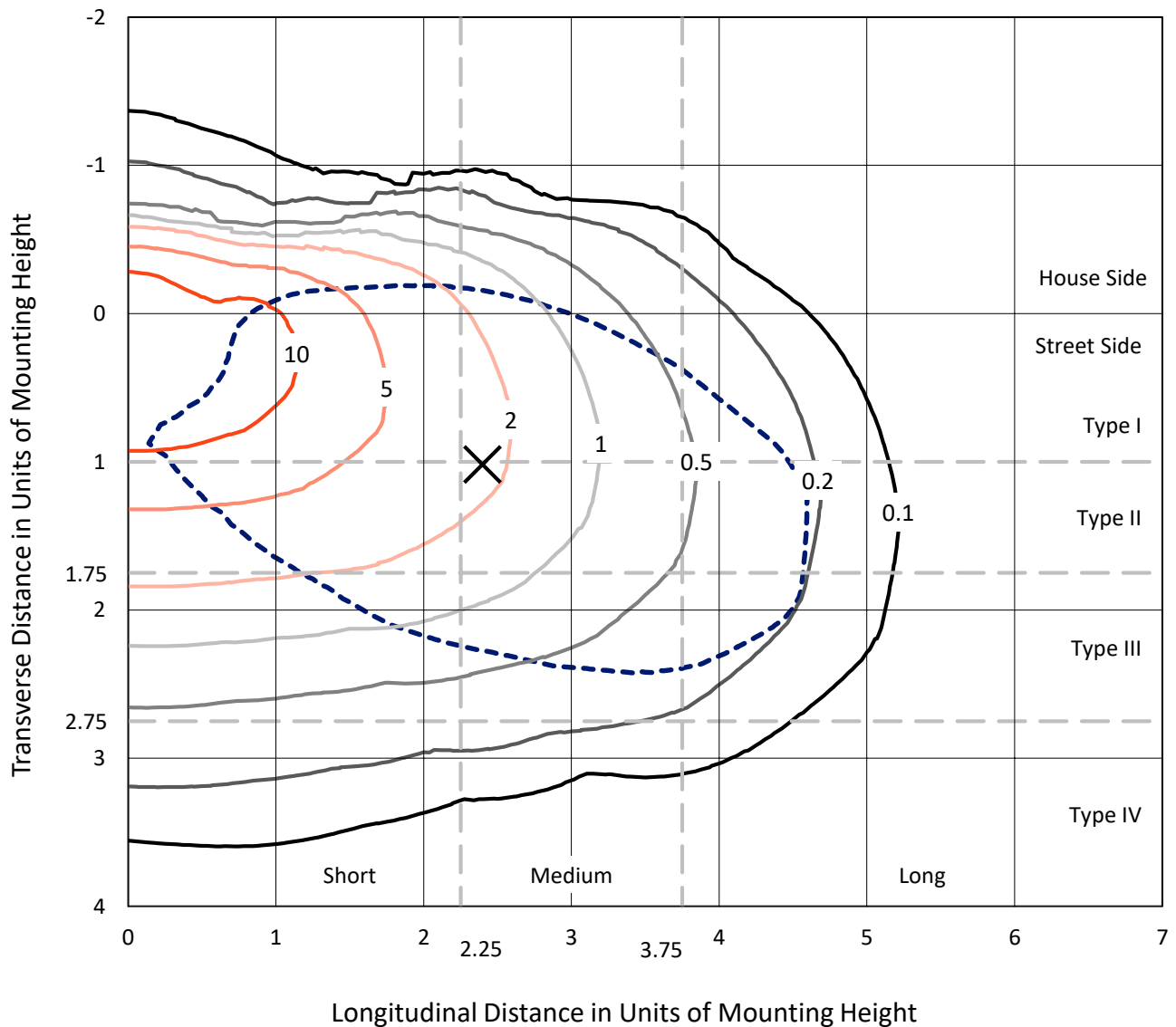
Input Watts (W): 81  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

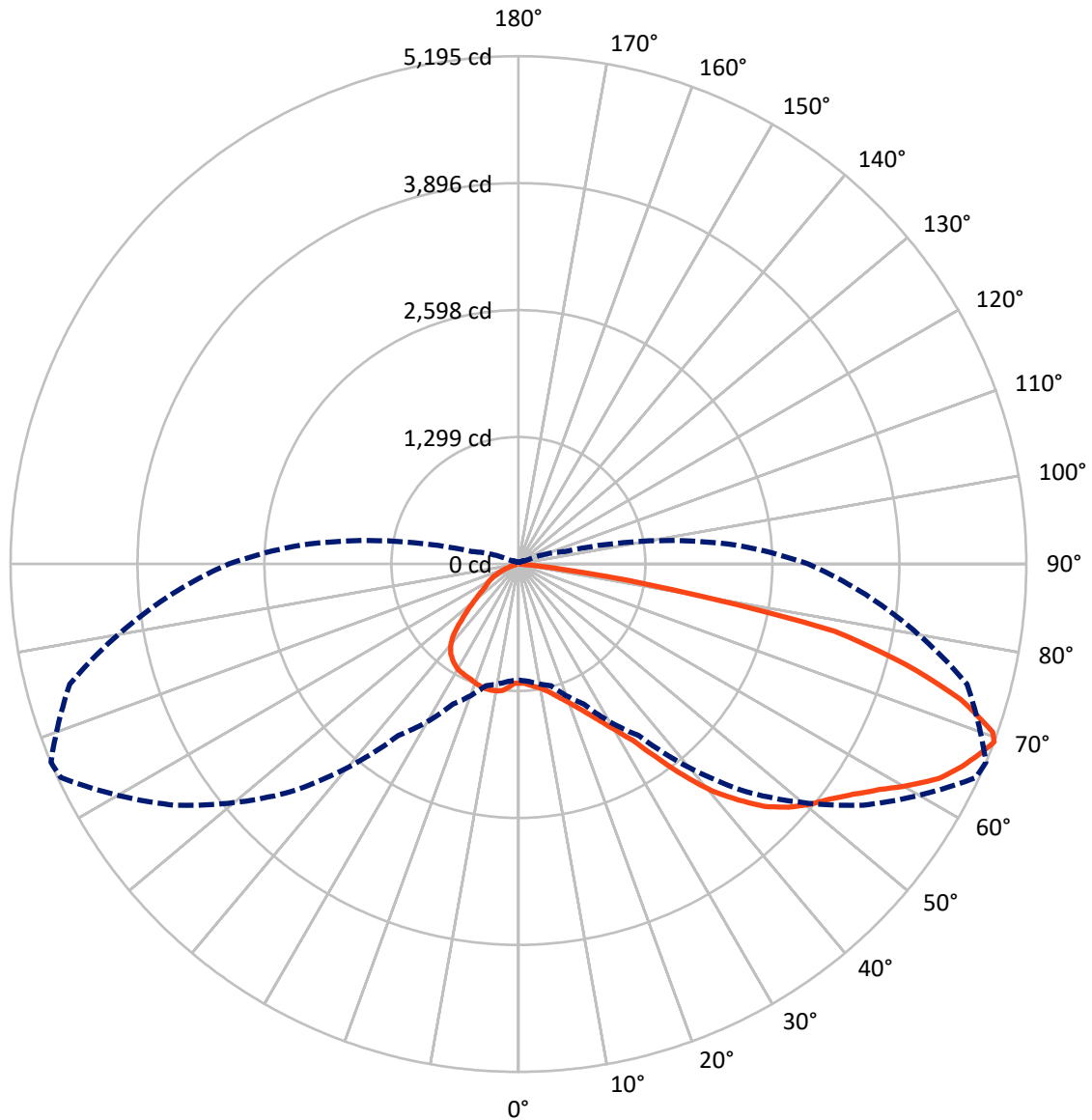


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1486.7	0.0	1486.7
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	6760.3	0.0	6760.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	8247.0	0.0	8247.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	1.5
10°-20°	387.2	4.7
20°-30°	660.8	8.0
30°-40°	999.2	12.1
40°-50°	1411.5	17.1
50°-60°	1705.9	20.7
60°-70°	1800.0	21.8
70°-80°	1083.6	13.1
80°-90°	75.7	0.9
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°	8247.0	100.0
0°-180°	8247.0	100.0



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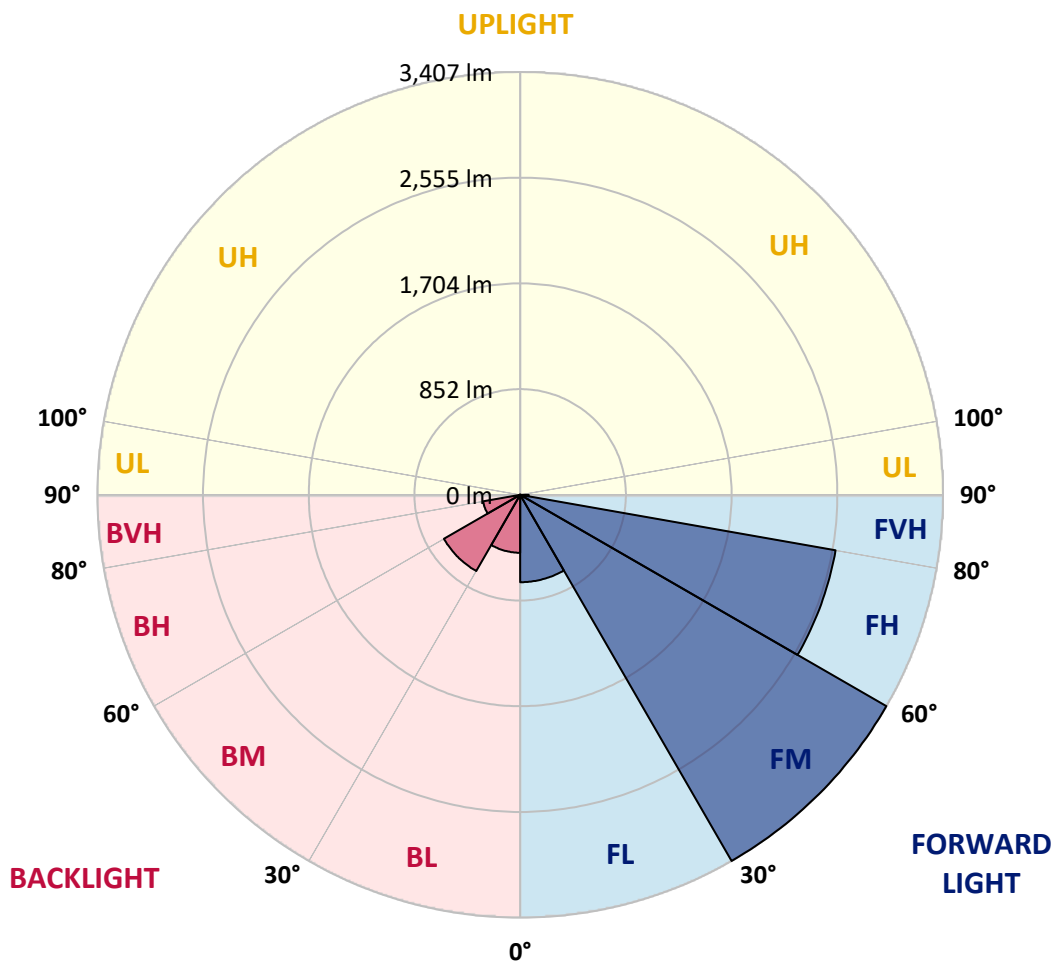
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	704.2	8.5			
FM	(30°-60°)	3407.2	41.3			
FH	(60°-80°)	2580.5	31.3			G2/5000
FVH	(80°-90°)	68.4	0.8			G1/100
BL	(0°-30°)	466.9	5.7	B1/500		
BM	(30°-60°)	709.3	8.6	B1/1000		
BH	(60°-80°)	303.1	3.7	B1/500		G1/500
BVH	(80°-90°)	7.4	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6
2.5°	1251.1	1249.2	1249.2	1238.0	1227.5	1224.9	1224.2	1220.9	1221.6	1217.0	1212.4
5°	1287.3	1287.3	1286.0	1271.5	1260.3	1253.1	1248.5	1242.6	1243.3	1240.0	1236.0
7.5°	1341.8	1342.5	1339.9	1320.8	1309.6	1291.9	1281.4	1270.2	1269.5	1265.6	1266.9
10°	1408.9	1410.8	1406.9	1382.6	1363.5	1339.2	1316.9	1297.1	1295.8	1291.2	1295.2
12.5°	1484.4	1487.1	1477.2	1452.2	1430.5	1392.4	1365.5	1339.2	1335.3	1334.6	1337.2
15°	1571.2	1572.5	1569.2	1532.4	1506.1	1471.3	1427.3	1393.7	1389.8	1390.5	1387.2
17.5°	1667.8	1671.0	1663.8	1631.0	1596.1	1548.2	1495.6	1454.2	1452.2	1450.3	1435.8
20°	1770.3	1773.6	1769.0	1738.1	1696.7	1636.2	1571.8	1524.5	1523.9	1519.3	1485.7
22.5°	1885.9	1890.5	1887.9	1850.4	1806.4	1740.7	1660.5	1611.2	1609.9	1595.5	1544.9
25°	2011.4	2010.1	2012.7	1972.7	1931.3	1862.3	1763.0	1711.8	1711.8	1694.0	1619.1
27.5°	2133.0	2132.3	2136.9	2108.7	2065.3	2000.3	1880.7	1828.8	1833.4	1807.7	1708.5
30°	2251.3	2251.3	2262.4	2244.1	2211.9	2143.5	2026.5	1972.0	1977.9	1951.0	1821.5
32.5°	2361.7	2366.9	2386.0	2374.8	2350.5	2288.7	2188.9	2138.9	2152.7	2163.9	2031.8
35°	2443.2	2448.4	2492.4	2496.4	2490.5	2449.1	2374.8	2407.0	2423.4	2511.5	2364.3
37.5°	2514.8	2521.4	2573.9	2606.8	2625.8	2600.2	2604.8	2712.6	2743.5	2847.3	2648.2
40°	2567.4	2581.8	2633.7	2679.1	2746.1	2776.3	2851.2	3004.3	3054.3	3095.7	2843.3
42.5°	2531.2	2541.1	2632.4	2754.0	2851.9	2958.3	3079.9	3261.9	3299.4	3286.2	3015.5
45°	2478.0	2489.8	2585.8	2773.7	2936.0	3148.2	3296.8	3493.9	3536.6	3463.7	3164.0
47.5°	2418.2	2434.6	2538.4	2747.4	3006.3	3323.0	3493.2	3693.0	3718.0	3622.0	3288.9
50°	2357.7	2376.1	2493.8	2725.7	3060.8	3468.9	3636.5	3855.3	3862.5	3753.4	3401.2
52.5°	2276.2	2295.3	2424.1	2680.4	3099.0	3564.9	3762.0	3988.7	3993.3	3895.4	3507.7
55°	2173.1	2197.4	2333.4	2613.3	3108.2	3620.7	3841.5	4127.3	4158.2	4049.1	3595.1
57.5°	2051.5	2073.9	2223.7	2516.8	3062.2	3639.8	3952.6	4310.7	4353.4	4204.9	3667.4
60°	1911.5	1937.2	2087.7	2391.9	2969.5	3693.0	4136.5	4569.6	4595.2	4367.8	3731.1
62.5°	1768.3	1786.7	1923.4	2216.5	2824.9	3725.2	4299.5	4812.7	4829.8	4524.9	3769.2
65°	1564.6	1587.6	1721.0	2015.4	2616.6	3663.4	4361.9	4979.0	4989.5	4656.3	3750.8
67.5°	1343.1	1361.5	1458.8	1772.9	2343.3	3467.6	4336.3	5090.0	5123.5	4758.8	3667.4
69°	1186.1	1204.5	1288.6	1579.0	2140.2	3294.1	4300.2	5165.6	5195.2	4751.6	3560.9
70°	1063.9	1082.3	1161.8	1434.5	1981.2	3147.6	4243.0	5127.5	5146.5	4670.8	3457.1
72.5°	760.9	779.3	844.4	1008.7	1500.9	2587.1	3888.8	4704.3	4729.9	4282.4	3089.8
75°	398.2	442.2	559.2	651.9	889.1	1821.5	3233.0	4045.9	4083.3	3758.0	2541.1
77.5°	51.3	53.9	157.7	264.8	367.3	768.2	2296.6	3248.8	3307.9	3007.6	1757.1
80°	41.4	42.1	54.5	132.1	182.7	311.5	814.8	1520.6	1592.2	1336.6	645.9
82.5°	28.9	30.2	42.7	69.7	59.8	113.7	283.2	429.8	442.9	383.1	257.6
85°	16.4	16.4	20.4	26.9	19.1	42.7	58.5	62.4	55.9	55.2	41.4
87.5°	4.6	5.3	5.9	4.6	2.0	2.0	2.6	2.6	2.6	2.0	2.0
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°	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6	1219.6
2.5°	1219.6	1218.3	1218.9	1221.6	1225.5	1240.0	1249.8	1251.1	1255.7	1272.8	1270.9
5°	1240.6	1248.5	1253.1	1266.9	1276.1	1295.8	1307.7	1309.0	1315.5	1333.3	1333.9
7.5°	1270.2	1283.3	1289.9	1305.7	1309.0	1318.2	1321.5	1318.2	1318.8	1334.6	1335.9
10°	1295.8	1312.3	1312.3	1316.2	1310.3	1310.9	1300.4	1290.6	1285.3	1299.1	1302.4
12.5°	1335.3	1339.9	1329.3	1317.5	1299.8	1284.0	1266.3	1250.5	1238.0	1245.9	1241.3
15°	1376.0	1368.8	1343.1	1312.3	1280.7	1253.8	1217.0	1194.0	1172.3	1176.9	1173.0
17.5°	1416.7	1393.1	1353.0	1301.7	1255.7	1204.5	1153.2	1117.1	1077.7	1074.4	1068.5
20°	1456.2	1422.0	1355.6	1280.1	1215.7	1143.4	1063.9	1002.1	943.6	928.5	918.6
22.5°	1503.5	1454.2	1358.9	1259.0	1172.3	1073.7	953.5	857.5	794.5	773.4	763.6
25°	1563.9	1498.9	1368.1	1243.3	1128.3	987.6	822.7	713.0	644.6	608.5	605.2
27.5°	1635.6	1552.8	1383.9	1222.9	1065.8	872.6	687.3	573.0	500.1	463.3	451.4
30°	1729.5	1619.8	1398.3	1207.1	977.8	747.1	545.4	417.9	331.2	307.5	295.0
32.5°	1907.6	1728.9	1416.7	1170.3	874.0	609.8	386.4	257.6	198.4	182.7	182.7
35°	2197.4	1968.7	1462.7	1119.7	749.1	444.2	232.0	144.6	118.3	109.1	104.5
37.5°	2458.9	2210.5	1577.7	1041.5	597.3	262.8	132.7	89.4	80.8	82.1	82.1
40°	2643.6	2376.1	1704.6	935.7	405.4	140.6	84.1	71.6	72.9	73.6	73.6
42.5°	2801.9	2517.4	1774.2	810.2	220.8	91.3	72.3	65.1	67.0	66.4	65.7
45°	2934.7	2632.4	1797.2	637.4	107.1	80.8	65.7	59.8	59.8	59.1	59.1
47.5°	3048.4	2734.3	1754.5	473.8	86.7	74.3	62.4	55.2	54.5	57.8	57.8
50°	3152.2	2813.1	1648.0	358.8	84.1	68.3	59.1	51.3	51.9	56.5	56.5
52.5°	3238.9	2859.8	1490.3	268.8	78.2	63.1	54.5	48.0	48.0	52.6	52.6
55°	3303.3	2859.8	1370.1	201.1	74.9	57.8	50.6	46.0	43.4	44.7	45.3
57.5°	3335.5	2805.9	1273.5	163.0	71.0	52.6	46.7	40.1	35.5	36.8	36.1
60°	3327.0	2775.0	1162.4	145.2	66.4	48.6	41.4	34.2	29.6	28.3	28.3
62.5°	3311.2	2740.2	1023.8	126.2	61.8	45.3	34.2	27.6	25.0	23.7	24.3
65°	3251.4	2627.1	848.3	105.1	57.2	44.0	28.9	24.3	21.7	20.4	20.4
67.5°	3106.8	2423.4	641.3	88.7	53.2	35.5	25.0	21.0	18.4	17.1	17.1
69°	2963.6	2228.9	492.2	80.8	50.6	32.2	23.0	19.1	17.1	15.1	15.1
70°	2840.1	2078.5	385.7	75.6	48.6	30.9	22.3	18.4	16.4	14.5	14.5
72.5°	2418.2	1648.7	195.8	65.7	40.7	26.9	19.7	16.4	13.8	11.8	11.8
75°	1876.1	1136.2	129.5	51.9	31.5	24.3	17.7	14.5	11.8	9.9	9.2
77.5°	1128.9	444.2	92.7	33.5	20.4	19.1	14.5	11.8	9.9	7.9	7.9
80°	311.5	190.6	62.4	22.3	11.8	12.5	10.5	8.5	7.2	5.9	5.9
82.5°	187.3	123.5	41.4	14.5	7.9	7.9	5.9	5.9	4.6	4.6	4.6
85°	32.2	25.0	9.9	5.9	4.6	4.6	3.3	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.6	2.6	2.0	1.3	0.7	0.0	0.0	0.0
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)