

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: P233720

Luminaire Tested: **VERD-C028-D-U-T3-8027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233720  
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-C028-D-U-T3-8027-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 930mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7584 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

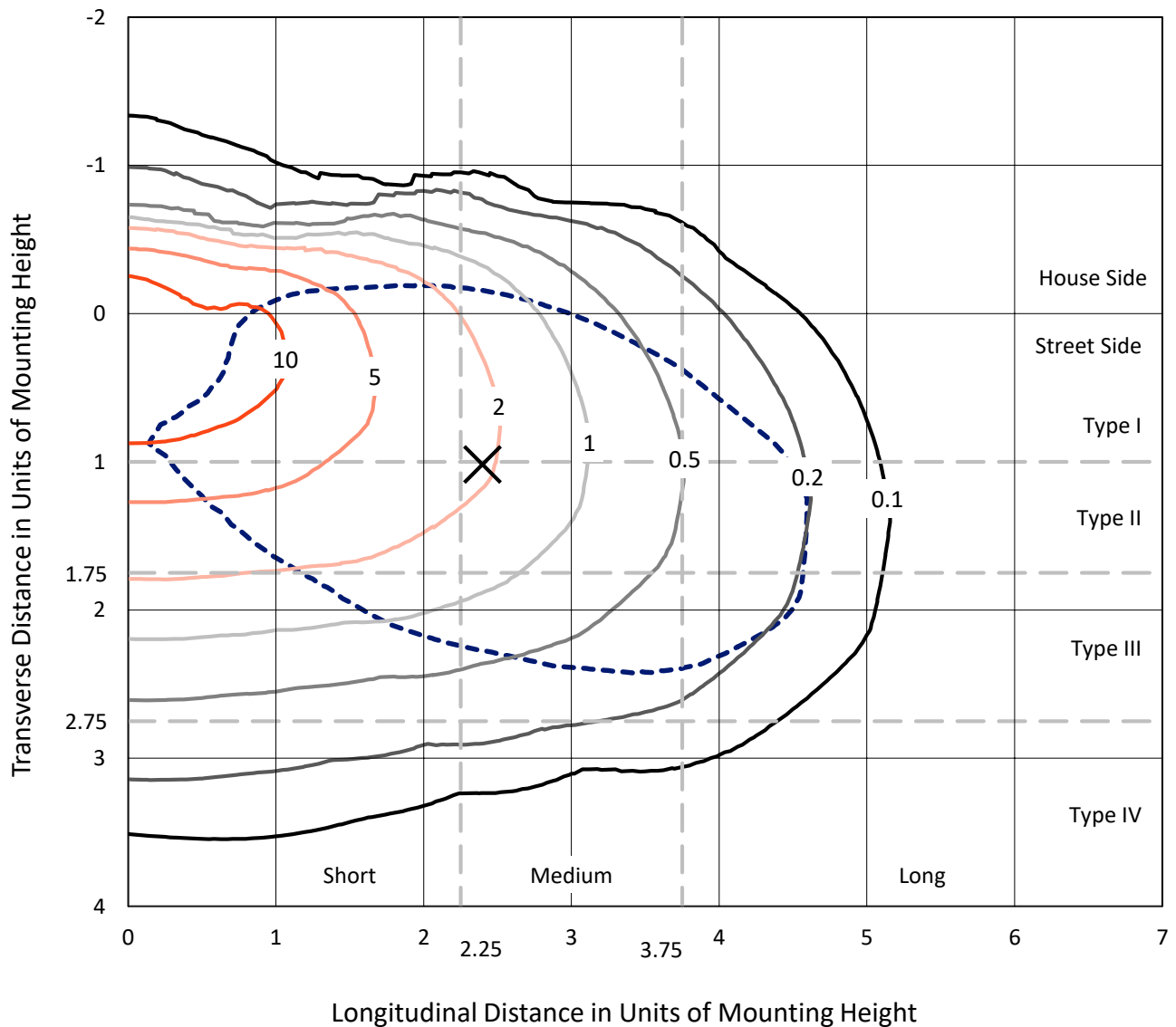
Input Watts (W): 73  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

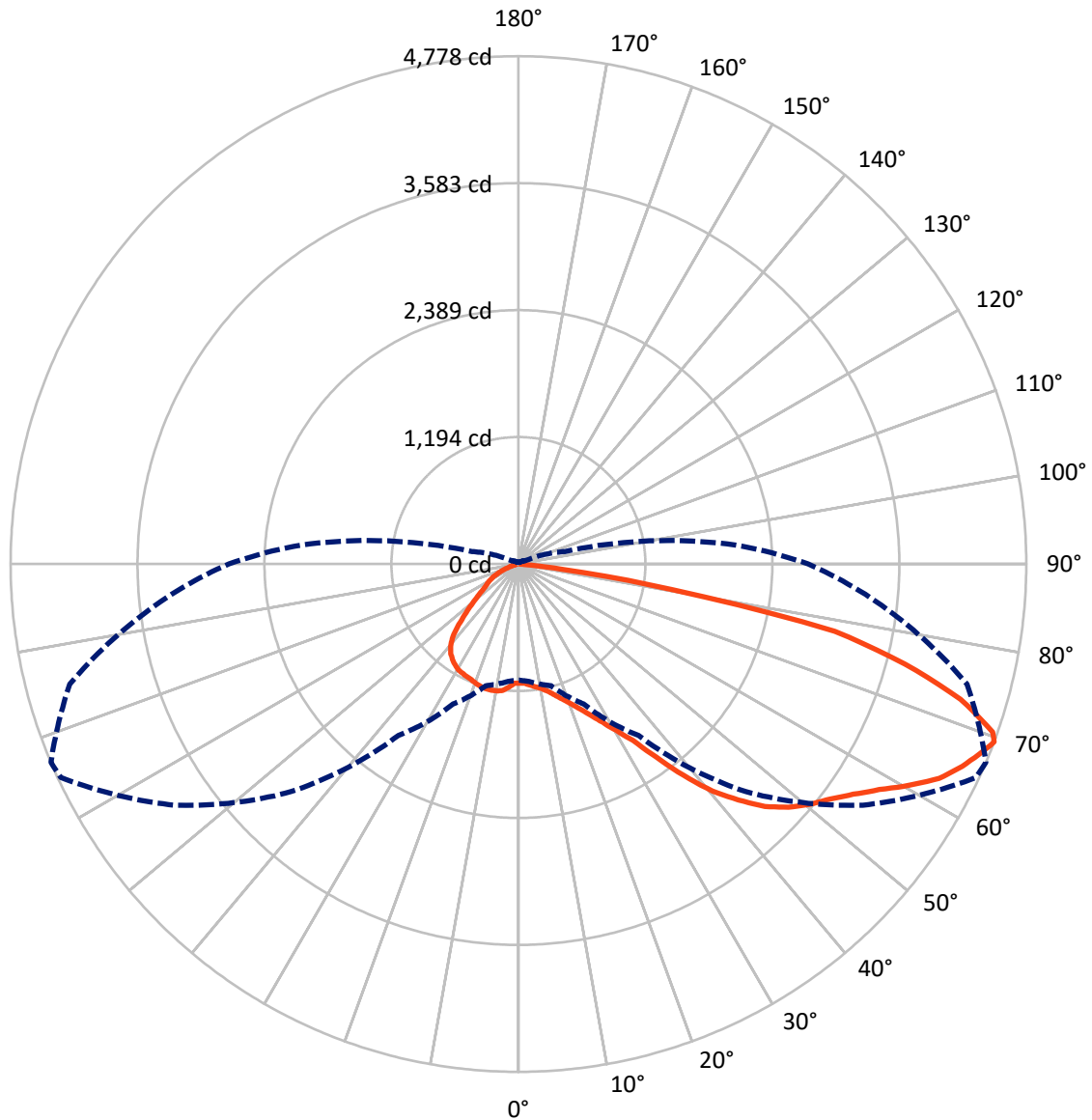
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 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	1367.2	0.0	1367.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	6216.8	0.0	6216.8
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	7584.0	0.0	7584.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.5
10°-20°	356.0	4.7
20°-30°	607.7	8.0
30°-40°	918.8	12.1
40°-50°	1298.1	17.1
50°-60°	1568.7	20.7
60°-70°	1655.3	21.8
70°-80°	996.5	13.1
80°-90°	69.6	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°	7584.0	100.0
0°-180°	7584.0	100.0

**Coefficient of Utilization**



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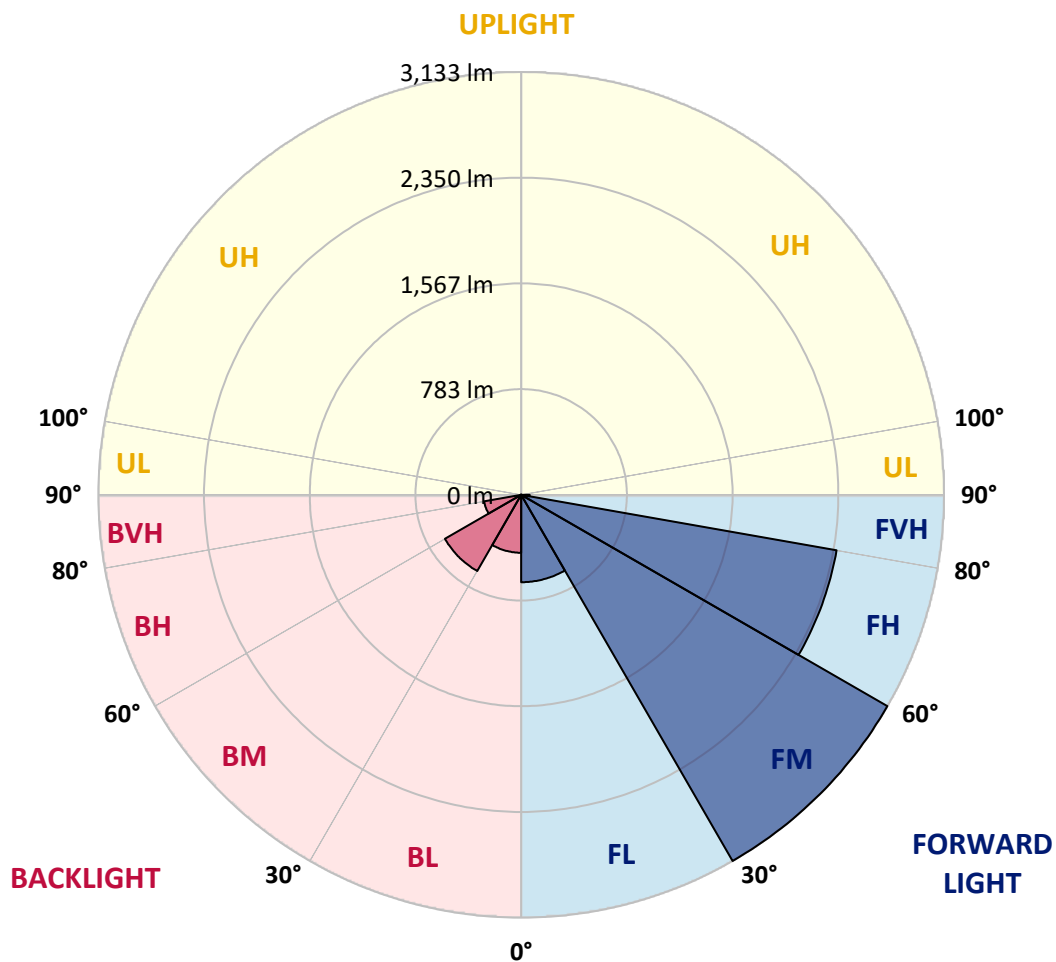
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.6	8.5			
FM	(30°-60°)	3133.3	41.3			
FH	(60°-80°)	2373.0	31.3			G2/5000
FVH	(80°-90°)	62.9	0.8			G1/100
BL	(0°-30°)	429.4	5.7	B1/500		
BM	(30°-60°)	652.3	8.6	B1/1000		
BH	(60°-80°)	278.7	3.7	B1/500		G1/500
BVH	(80°-90°)	6.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6
2.5°	1150.6	1148.8	1148.8	1138.5	1128.8	1126.4	1125.8	1122.8	1123.4	1119.1	1114.9
5°	1183.8	1183.8	1182.6	1169.3	1159.0	1152.4	1148.1	1142.7	1143.3	1140.3	1136.7
7.5°	1234.0	1234.6	1232.1	1214.6	1204.3	1188.0	1178.4	1168.1	1167.5	1163.9	1165.1
10°	1295.6	1297.4	1293.8	1271.4	1253.9	1231.5	1211.0	1192.9	1191.7	1187.4	1191.1
12.5°	1365.1	1367.5	1358.4	1335.5	1315.5	1280.5	1255.7	1231.5	1227.9	1227.3	1229.7
15°	1444.9	1446.1	1443.0	1409.2	1385.0	1353.0	1312.5	1281.7	1278.1	1278.7	1275.7
17.5°	1533.7	1536.7	1530.1	1499.8	1467.8	1423.7	1375.4	1337.3	1335.5	1333.7	1320.4
20°	1628.0	1631.0	1626.7	1598.3	1560.3	1504.7	1445.5	1401.9	1401.3	1397.1	1366.3
22.5°	1734.3	1738.5	1736.1	1701.7	1661.2	1600.8	1527.0	1481.7	1480.5	1467.2	1420.7
25°	1849.7	1848.5	1850.9	1814.1	1776.0	1712.6	1621.3	1574.2	1574.2	1557.9	1489.0
27.5°	1961.5	1960.9	1965.1	1939.2	1899.3	1839.5	1729.5	1681.7	1686.0	1662.4	1571.1
30°	2070.3	2070.3	2080.6	2063.6	2034.0	1971.2	1863.6	1813.5	1818.9	1794.1	1675.1
32.5°	2171.8	2176.6	2194.2	2183.9	2161.5	2104.7	2012.9	1967.0	1979.6	1989.9	1868.5
35°	2246.7	2251.6	2292.1	2295.7	2290.3	2252.2	2183.9	2213.5	2228.6	2309.6	2174.2
37.5°	2312.6	2318.7	2367.0	2397.2	2414.7	2391.2	2395.4	2494.5	2522.9	2618.4	2435.3
40°	2361.0	2374.2	2422.0	2463.7	2525.3	2553.1	2622.0	2762.8	2808.7	2846.8	2614.8
42.5°	2327.7	2336.8	2420.8	2532.6	2622.6	2720.5	2832.3	2999.7	3034.1	3022.0	2773.1
45°	2278.8	2289.6	2377.9	2550.7	2700.0	2895.1	3031.7	3213.0	3252.3	3185.2	2909.6
47.5°	2223.8	2238.9	2334.4	2526.5	2764.6	3055.9	3212.4	3396.1	3419.1	3330.8	3024.5
50°	2168.2	2185.1	2293.3	2506.6	2814.8	3190.0	3344.1	3545.4	3552.0	3451.7	3127.8
52.5°	2093.3	2110.8	2229.2	2464.9	2849.8	3278.3	3459.6	3668.0	3672.3	3582.2	3225.7
55°	1998.4	2020.7	2145.8	2403.3	2858.3	3329.6	3532.7	3795.5	3823.9	3723.6	3306.1
57.5°	1886.6	1907.1	2044.9	2314.4	2816.0	3347.2	3634.8	3964.1	4003.4	3866.8	3372.5
60°	1757.9	1781.4	1919.8	2199.6	2730.8	3396.1	3804.0	4202.2	4225.8	4016.7	3431.1
62.5°	1626.1	1643.1	1768.8	2038.3	2597.8	3425.7	3953.9	4425.8	4441.5	4161.1	3466.2
65°	1438.8	1460.0	1582.6	1853.4	2406.3	3368.9	4011.3	4578.7	4588.4	4282.0	3449.3
67.5°	1235.2	1252.1	1341.5	1630.4	2154.9	3188.8	3987.7	4680.8	4711.6	4376.3	3372.5
69°	1090.7	1107.7	1185.0	1452.1	1968.2	3029.3	3954.5	4750.3	4777.5	4369.6	3274.6
70°	978.3	995.3	1068.4	1319.2	1821.9	2894.5	3901.9	4715.3	4732.8	4295.3	3179.2
72.5°	699.8	716.7	776.5	927.6	1380.2	2379.1	3576.2	4326.1	4349.7	3938.1	2841.4
75°	366.2	406.7	514.2	599.5	817.6	1675.1	2973.1	3720.6	3755.0	3455.9	2336.8
77.5°	47.1	49.6	145.0	243.5	337.8	706.4	2112.0	2987.6	3042.0	2765.8	1615.9
80°	38.1	38.7	50.2	121.5	168.0	286.4	749.3	1398.3	1464.2	1229.1	594.0
82.5°	26.6	27.8	39.3	64.1	55.0	104.5	260.4	395.2	407.3	352.3	236.9
85°	15.1	15.1	18.7	24.8	17.5	39.3	53.8	57.4	51.4	50.8	38.1
87.5°	4.2	4.8	5.4	4.2	1.8	1.8	2.4	2.4	2.4	1.8	1.8
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°	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6	1121.6
2.5°	1121.6	1120.4	1121.0	1123.4	1127.0	1140.3	1149.4	1150.6	1154.8	1170.5	1168.7
5°	1140.9	1148.1	1152.4	1165.1	1173.5	1191.7	1202.5	1203.7	1209.8	1226.1	1226.7
7.5°	1168.1	1180.2	1186.2	1200.7	1203.7	1212.2	1215.2	1212.2	1212.8	1227.3	1228.5
10°	1191.7	1206.8	1206.8	1210.4	1205.0	1205.6	1195.9	1186.8	1182.0	1194.7	1197.7
12.5°	1227.9	1232.1	1222.5	1211.6	1195.3	1180.8	1164.5	1150.0	1138.5	1145.7	1141.5
15°	1265.4	1258.7	1235.2	1206.8	1177.8	1153.0	1119.1	1098.0	1078.1	1082.3	1078.7
17.5°	1302.8	1281.1	1244.2	1197.1	1154.8	1107.7	1060.5	1027.3	991.0	988.0	982.6
20°	1339.1	1307.7	1246.6	1177.2	1117.9	1051.5	978.3	921.5	867.8	853.9	844.8
22.5°	1382.6	1337.3	1249.7	1157.8	1078.1	987.4	876.8	788.6	730.6	711.2	702.2
25°	1438.2	1378.4	1258.1	1143.3	1037.6	908.2	756.6	655.7	592.8	559.6	556.5
27.5°	1504.1	1427.9	1272.6	1124.6	980.2	802.5	632.1	526.9	459.9	426.0	415.1
30°	1590.5	1489.6	1285.9	1110.1	899.2	687.1	501.6	384.3	304.6	282.8	271.3
32.5°	1754.2	1589.9	1302.8	1076.2	803.7	560.8	355.3	236.9	182.5	168.0	168.0
35°	2020.7	1810.4	1345.1	1029.7	688.9	408.5	213.3	132.9	108.8	100.3	96.1
37.5°	2261.2	2032.8	1450.9	957.8	549.3	241.7	122.1	82.2	74.3	75.5	75.5
40°	2431.1	2185.1	1567.5	860.5	372.8	129.3	77.3	65.9	67.1	67.7	67.7
42.5°	2576.7	2315.0	1631.6	745.1	203.0	84.0	66.5	59.8	61.6	61.0	60.4
45°	2698.8	2420.8	1652.7	586.2	98.5	74.3	60.4	55.0	55.0	54.4	54.4
47.5°	2803.3	2514.4	1613.4	435.7	79.8	68.3	57.4	50.8	50.2	53.2	53.2
50°	2898.8	2587.0	1515.6	329.9	77.3	62.8	54.4	47.1	47.7	52.0	52.0
52.5°	2978.5	2629.9	1370.5	247.2	71.9	58.0	50.2	44.1	44.1	48.3	48.3
55°	3037.8	2629.9	1259.9	184.9	68.9	53.2	46.5	42.3	39.9	41.1	41.7
57.5°	3067.4	2580.3	1171.1	149.9	65.3	48.3	42.9	36.9	32.6	33.8	33.2
60°	3059.5	2551.9	1069.0	133.5	61.0	44.7	38.1	31.4	27.2	26.0	26.0
62.5°	3045.0	2519.9	941.5	116.0	56.8	41.7	31.4	25.4	23.0	21.8	22.4
65°	2990.0	2415.9	780.1	96.7	52.6	40.5	26.6	22.4	19.9	18.7	18.7
67.5°	2857.1	2228.6	589.8	81.6	48.9	32.6	23.0	19.3	16.9	15.7	15.7
69°	2725.3	2049.7	452.6	74.3	46.5	29.6	21.2	17.5	15.7	13.9	13.9
70°	2611.7	1911.4	354.7	69.5	44.7	28.4	20.5	16.9	15.1	13.3	13.3
72.5°	2223.8	1516.2	180.1	60.4	37.5	24.8	18.1	15.1	12.7	10.9	10.9
75°	1725.2	1044.8	119.0	47.7	29.0	22.4	16.3	13.3	10.9	9.1	8.5
77.5°	1038.2	408.5	85.2	30.8	18.7	17.5	13.3	10.9	9.1	7.3	7.3
80°	286.4	175.2	57.4	20.5	10.9	11.5	9.7	7.9	6.6	5.4	5.4
82.5°	172.2	113.6	38.1	13.3	7.3	7.3	5.4	5.4	4.2	4.2	4.2
85°	29.6	23.0	9.1	5.4	4.2	4.2	3.0	1.8	1.8	1.8	1.8
87.5°	1.8	1.8	1.8	2.4	2.4	1.8	1.2	0.6	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)