

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: P233747

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233747  
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-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1030mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9358 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B2 - 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

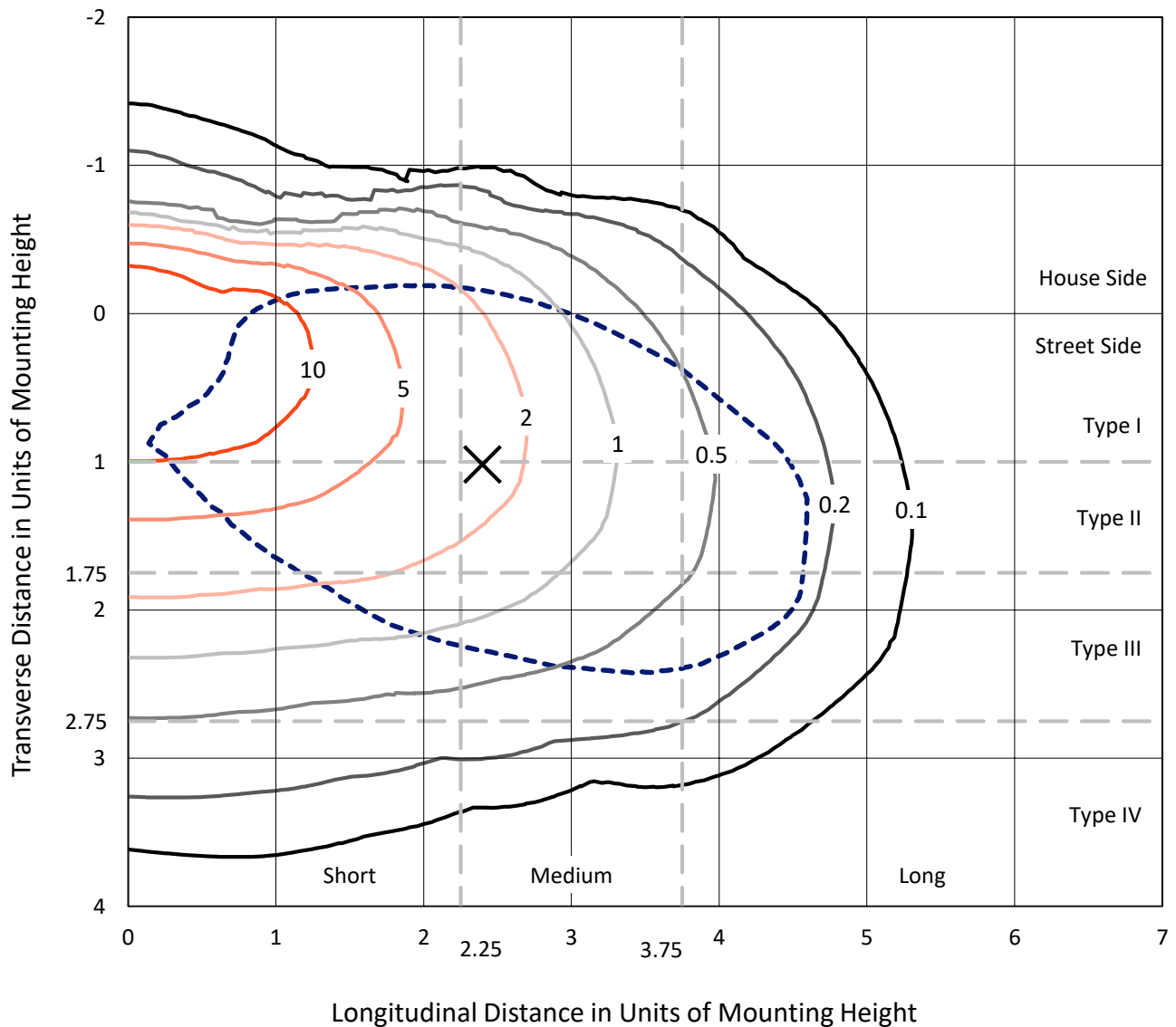


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

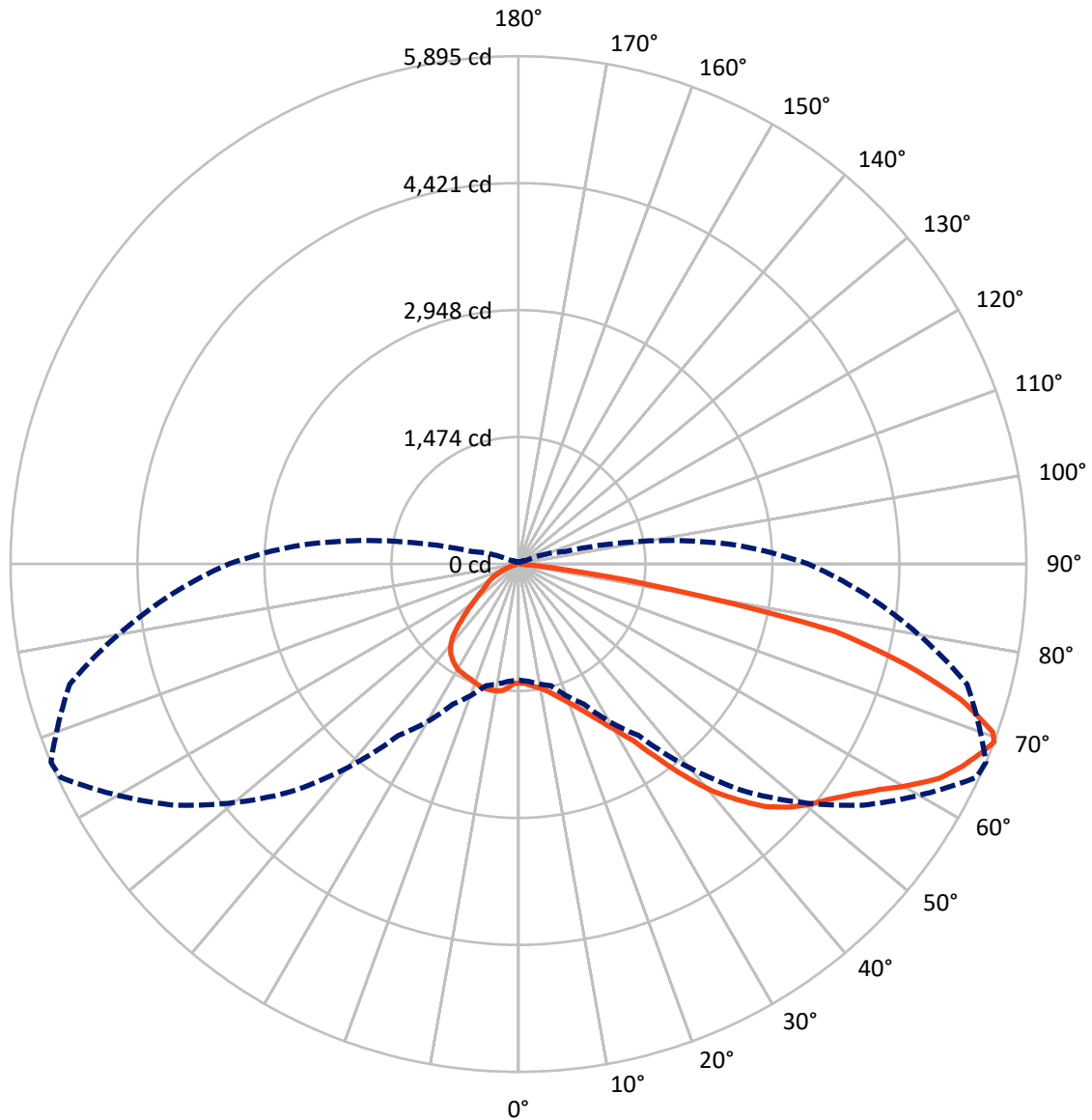


Based on 10 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Medium - Semi-Cutoff

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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	1687.0	0.0	1687.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	7671.0	0.0	7671.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	9358.0	0.0	9358.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	1.5
10°-20°	439.3	4.7
20°-30°	749.8	8.0
30°-40°	1133.8	12.1
40°-50°	1601.7	17.1
50°-60°	1935.7	20.7
60°-70°	2042.5	21.8
70°-80°	1229.6	13.1
80°-90°	85.9	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°	9358.0	100.0
0°-180°	9358.0	100.0

**Coefficient of Utilization**



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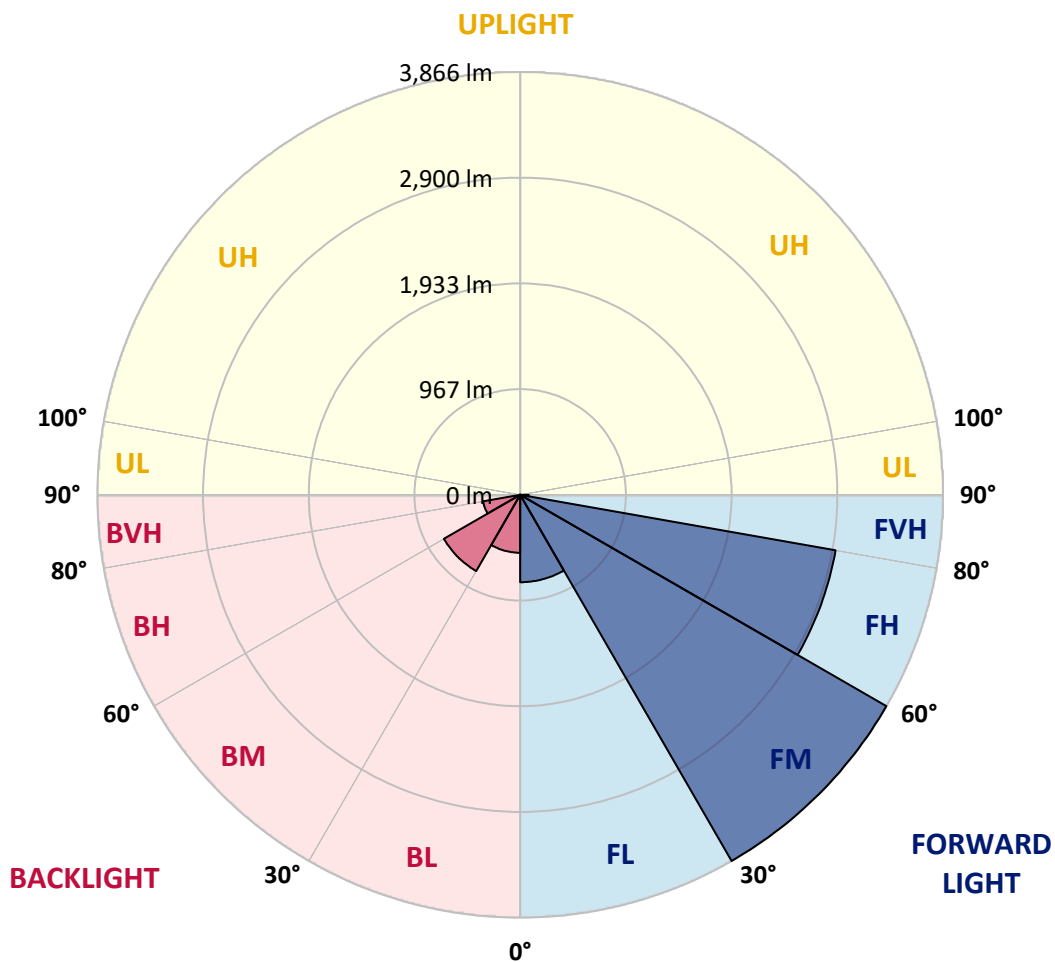
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	799.1	8.5			
FM	(30°-60°)	3866.2	41.3			
FH	(60°-80°)	2928.1	31.3			G2/5000
FVH	(80°-90°)	77.6	0.8			G1/100
BL	(0°-30°)	529.8	5.7	B2/1000		
BM	(30°-60°)	804.9	8.6	B1/1000		
BH	(60°-80°)	343.9	3.7	B1/500		G1/500
BVH	(80°-90°)	8.3	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9
2.5°	1419.7	1417.5	1417.5	1404.8	1392.9	1389.9	1389.1	1385.4	1386.1	1380.9	1375.7
5°	1460.7	1460.7	1459.2	1442.8	1430.1	1421.9	1416.7	1410.0	1410.8	1407.0	1402.5
7.5°	1522.6	1523.3	1520.4	1498.7	1486.1	1465.9	1454.0	1441.3	1440.6	1436.1	1437.6
10°	1598.7	1600.9	1596.4	1568.8	1547.2	1519.6	1494.3	1471.9	1470.4	1465.2	1469.7
12.5°	1684.4	1687.4	1676.2	1647.9	1623.3	1580.0	1549.4	1519.6	1515.1	1514.4	1517.4
15°	1782.8	1784.3	1780.6	1738.8	1709.0	1669.5	1619.5	1581.5	1577.0	1577.8	1574.0
17.5°	1892.4	1896.2	1888.0	1850.7	1811.2	1756.7	1697.1	1650.1	1647.9	1645.6	1629.2
20°	2008.8	2012.5	2007.3	1972.2	1925.2	1856.6	1783.6	1729.9	1729.1	1723.9	1685.9
22.5°	2140.0	2145.2	2142.2	2099.7	2049.8	1975.2	1884.2	1828.3	1826.8	1810.4	1753.0
25°	2282.4	2280.9	2283.9	2238.4	2191.4	2113.1	2000.6	1942.4	1942.4	1922.3	1837.3
27.5°	2420.3	2419.6	2424.8	2392.8	2343.5	2269.7	2134.0	2075.1	2080.3	2051.3	1938.7
30°	2554.6	2554.6	2567.2	2546.4	2509.8	2432.3	2299.6	2237.7	2244.4	2213.8	2066.9
32.5°	2679.8	2685.8	2707.4	2694.7	2667.2	2597.1	2483.7	2427.1	2442.7	2455.4	2305.5
35°	2772.3	2778.3	2828.2	2832.7	2826.0	2779.0	2694.7	2731.3	2749.9	2849.8	2682.8
37.5°	2853.6	2861.0	2920.7	2958.0	2979.6	2950.5	2955.7	3078.0	3113.0	3230.9	3004.9
40°	2913.2	2929.6	2988.5	3040.0	3116.0	3150.3	3235.3	3409.1	3465.7	3512.7	3226.4
42.5°	2872.2	2883.4	2987.0	3125.0	3236.1	3356.9	3494.8	3701.4	3743.9	3728.9	3421.7
45°	2811.8	2825.2	2934.1	3147.3	3331.5	3572.4	3740.9	3964.6	4013.0	3930.3	3590.3
47.5°	2744.0	2762.6	2880.4	3117.5	3411.3	3770.7	3963.8	4190.5	4218.8	4110.0	3731.9
50°	2675.4	2696.2	2829.7	3092.9	3473.2	3936.2	4126.4	4374.7	4382.9	4259.1	3859.4
52.5°	2582.9	2604.5	2750.7	3041.5	3516.4	4045.1	4268.8	4526.0	4531.3	4420.2	3980.2
55°	2465.8	2493.4	2647.8	2965.4	3526.9	4108.5	4359.0	4683.4	4718.4	4594.6	4079.4
57.5°	2327.9	2353.2	2523.2	2855.8	3474.7	4130.1	4485.0	4891.4	4939.9	4771.3	4161.4
60°	2169.1	2198.1	2368.9	2714.1	3369.5	4190.5	4693.8	5185.2	5214.3	4956.3	4233.7
62.5°	2006.5	2027.4	2182.5	2515.0	3205.5	4227.0	4878.7	5461.1	5480.5	5134.5	4277.0
65°	1775.4	1801.5	1952.8	2286.9	2969.1	4156.9	4949.6	5649.7	5661.6	5283.6	4256.1
67.5°	1524.1	1545.0	1655.3	2011.7	2659.0	3934.7	4920.5	5775.7	5813.8	5399.9	4161.4
69°	1345.9	1366.8	1462.2	1791.8	2428.5	3737.9	4879.5	5861.5	5895.0	5391.7	4040.6
70°	1207.2	1228.1	1318.3	1627.7	2248.1	3571.6	4814.6	5818.2	5839.8	5300.0	3922.8
72.5°	863.5	884.3	958.1	1144.6	1703.0	2935.6	4412.7	5338.0	5367.1	4859.3	3506.0
75°	451.9	501.8	634.5	739.7	1008.9	2066.9	3668.5	4590.9	4633.4	4264.3	2883.4
77.5°	58.2	61.1	179.0	300.5	416.8	871.7	2606.0	3686.4	3753.5	3412.8	1993.8
80°	47.0	47.7	61.9	149.9	207.3	353.4	924.6	1725.4	1806.7	1516.6	733.0
82.5°	32.8	34.3	48.5	79.0	67.9	129.0	321.4	487.6	502.6	434.7	292.3
85°	18.6	18.6	23.1	30.6	21.6	48.5	66.4	70.8	63.4	62.6	47.0
87.5°	5.2	6.0	6.7	5.2	2.2	2.2	3.0	3.0	3.0	2.2	2.2
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°	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9	1383.9
2.5°	1383.9	1382.4	1383.2	1386.1	1390.6	1407.0	1418.2	1419.7	1424.9	1444.3	1442.1
5°	1407.8	1416.7	1421.9	1437.6	1448.0	1470.4	1483.8	1485.3	1492.8	1512.9	1513.6
7.5°	1441.3	1456.2	1463.7	1481.6	1485.3	1495.8	1499.5	1495.8	1496.5	1514.4	1515.9
10°	1470.4	1489.0	1489.0	1493.5	1486.8	1487.6	1475.6	1464.4	1458.5	1474.1	1477.9
12.5°	1515.1	1520.4	1508.4	1495.0	1474.9	1457.0	1436.8	1419.0	1404.8	1413.7	1408.5
15°	1561.4	1553.2	1524.1	1489.0	1453.3	1422.7	1380.9	1354.8	1330.2	1335.4	1331.0
17.5°	1607.6	1580.8	1535.3	1477.1	1424.9	1366.8	1308.6	1267.6	1222.8	1219.1	1212.4
20°	1652.3	1613.6	1538.3	1452.5	1379.4	1297.4	1207.2	1137.1	1070.7	1053.6	1042.4
22.5°	1706.0	1650.1	1542.0	1428.6	1330.2	1218.4	1081.9	973.1	901.5	877.6	866.4
25°	1774.6	1700.8	1552.4	1410.8	1280.3	1120.7	933.5	809.0	731.5	690.5	686.7
27.5°	1855.9	1761.9	1570.3	1387.6	1209.4	990.2	779.9	650.2	567.4	525.7	512.3
30°	1962.5	1838.0	1586.7	1369.7	1109.5	847.8	618.9	474.2	375.8	349.0	334.8
32.5°	2164.6	1961.8	1607.6	1328.0	991.7	692.0	438.4	292.3	225.2	207.3	207.3
35°	2493.4	2233.9	1659.8	1270.6	850.0	504.1	263.2	164.0	134.2	123.8	118.6
37.5°	2790.2	2508.3	1790.3	1181.8	677.8	298.3	150.6	101.4	91.7	93.2	93.2
40°	2999.7	2696.2	1934.2	1061.8	460.1	159.6	95.4	81.3	82.8	83.5	83.5
42.5°	3179.4	2856.5	2013.2	919.4	250.5	103.6	82.0	73.8	76.1	75.3	74.6
45°	3330.0	2987.0	2039.3	723.3	121.5	91.7	74.6	67.9	67.9	67.1	67.1
47.5°	3459.0	3102.6	1990.9	537.6	98.4	84.3	70.8	62.6	61.9	65.6	65.6
50°	3576.8	3192.1	1870.1	407.1	95.4	77.5	67.1	58.2	58.9	64.1	64.1
52.5°	3675.3	3245.0	1691.1	305.0	88.7	71.6	61.9	54.4	54.4	59.7	59.7
55°	3748.3	3245.0	1554.7	228.2	85.0	65.6	57.4	52.2	49.2	50.7	51.4
57.5°	3784.9	3183.9	1445.0	184.9	80.5	59.7	52.9	45.5	40.3	41.8	41.0
60°	3775.2	3148.8	1319.0	164.8	75.3	55.2	47.0	38.8	33.6	32.1	32.1
62.5°	3757.3	3109.3	1161.7	143.2	70.1	51.4	38.8	31.3	28.3	26.8	27.6
65°	3689.4	2981.1	962.6	119.3	64.9	50.0	32.8	27.6	24.6	23.1	23.1
67.5°	3525.4	2749.9	727.7	100.7	60.4	40.3	28.3	23.9	20.9	19.4	19.4
69°	3362.8	2529.2	558.5	91.7	57.4	36.5	26.1	21.6	19.4	17.1	17.1
70°	3222.7	2358.5	437.7	85.7	55.2	35.0	25.4	20.9	18.6	16.4	16.4
72.5°	2744.0	1870.8	222.2	74.6	46.2	30.6	22.4	18.6	15.7	13.4	13.4
75°	2128.8	1289.2	146.9	58.9	35.8	27.6	20.1	16.4	13.4	11.2	10.4
77.5°	1281.0	504.1	105.1	38.0	23.1	21.6	16.4	13.4	11.2	8.9	8.9
80°	353.4	216.2	70.8	25.4	13.4	14.2	11.9	9.7	8.2	6.7	6.7
82.5°	212.5	140.2	47.0	16.4	8.9	8.9	6.7	6.7	5.2	5.2	5.2
85°	36.5	28.3	11.2	6.7	5.2	5.2	3.7	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	2.2	3.0	3.0	2.2	1.5	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)