

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: P509263

Luminaire Tested: **VERD-CA2-60-730-U-T3**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-730-U-T3  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 850mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9067 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

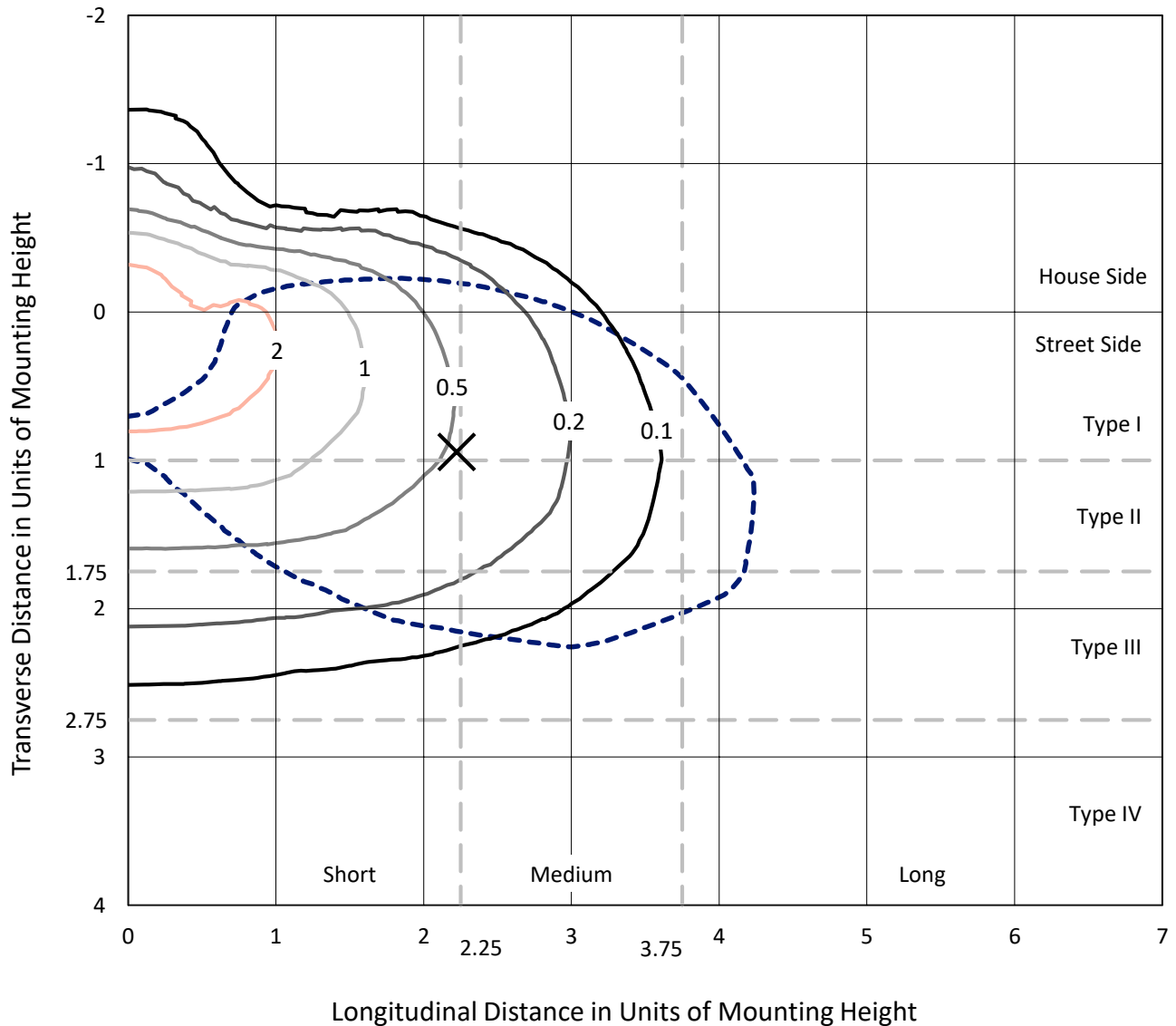
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

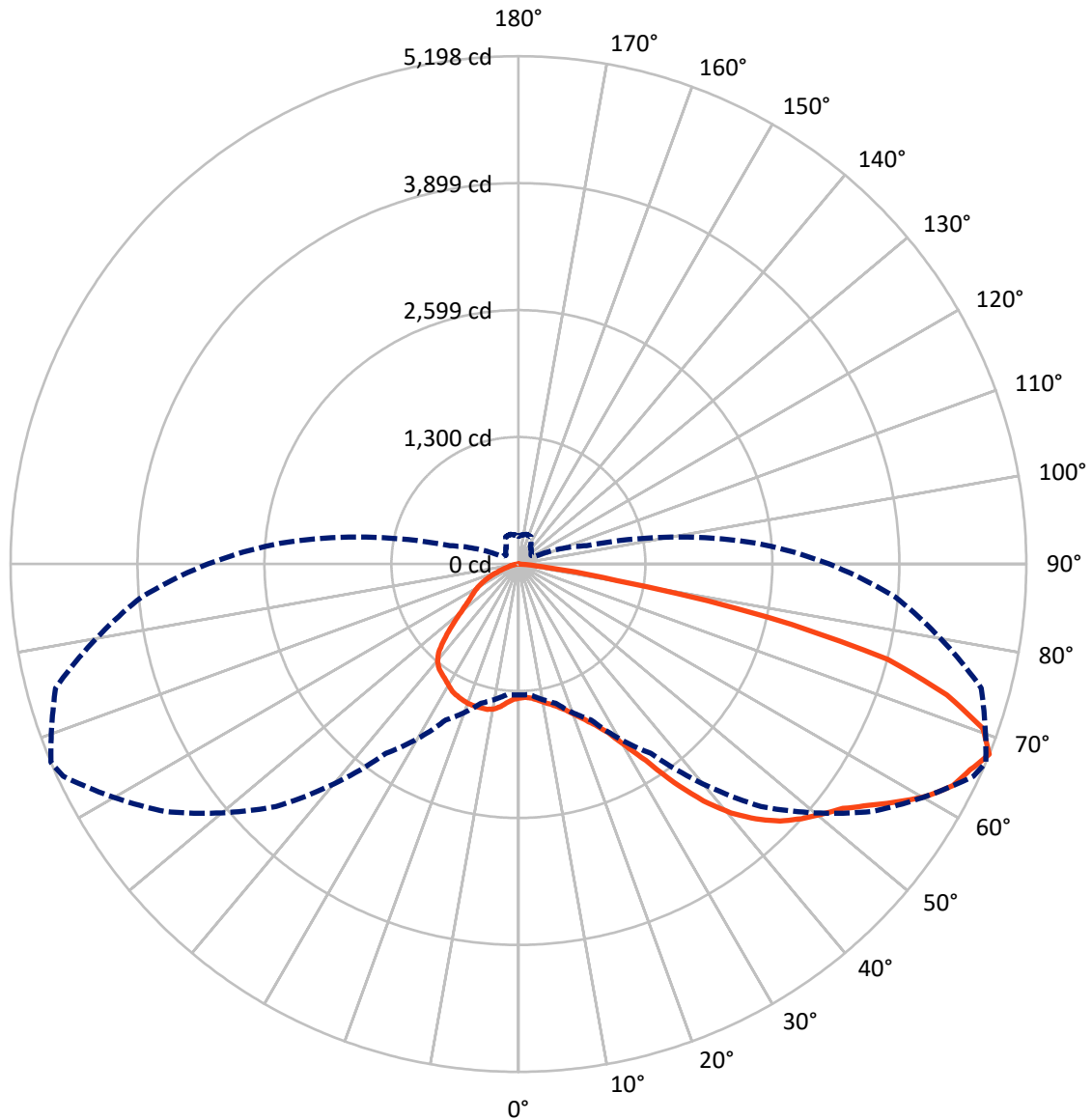
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2073.2	0.0	2073.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6993.8	0.0	6993.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	9067.0	0.0	9067.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	1.5
10°-20°	444.6	4.9
20°-30°	768.2	8.5
30°-40°	1166.0	12.9
40°-50°	1584.5	17.5
50°-60°	1884.4	20.8
60°-70°	1938.8	21.4
70°-80°	1057.6	11.7
80°-90°	84.0	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°	9067.0	100.0
0°-180°	9067.0	100.0

**Coefficient of Utilization**



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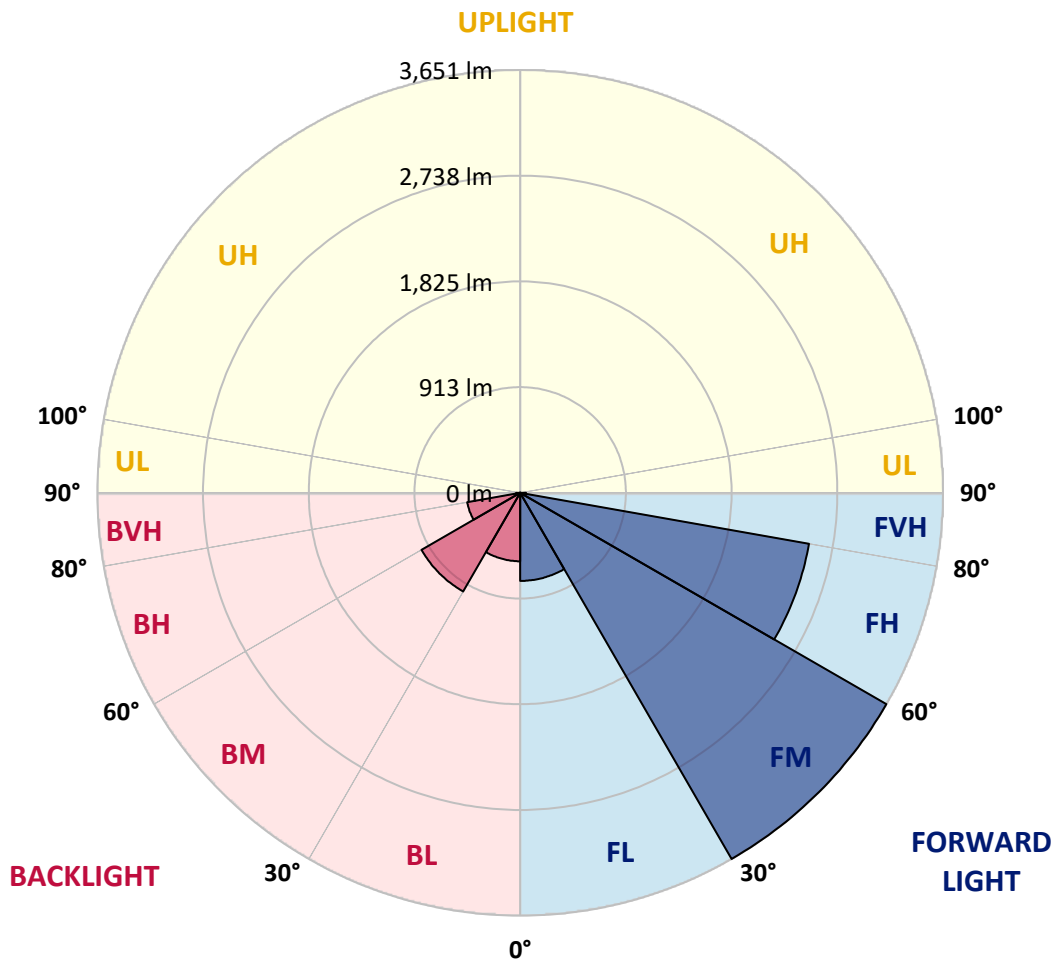
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.5	8.4			
FM (30°-60°)	3650.8	40.3			
FH (60°-80°)	2532.2	27.9			G2/5000
FVH (80°-90°)	50.3	0.6			G1/100
BL (0°-30°)	591.2	6.5	B2/1000		
BM (30°-60°)	984.1	10.9	B1/1000		
BH (60°-80°)	464.2	5.1	B1/500		G1/500
BVH (80°-90°)	33.7	0.4			G1/100
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1379.5	1373.7	1365.8	1368.7	1362.9	1372.7	1368.7	1366.8	1366.8	1367.8	1372.7
5°	1411.0	1405.1	1399.2	1398.2	1386.4	1390.3	1384.5	1378.6	1378.6	1377.6	1379.5
7.5°	1465.9	1458.1	1451.2	1450.2	1435.5	1433.5	1415.9	1404.1	1404.1	1403.1	1406.1
10°	1538.6	1535.7	1521.9	1513.1	1495.4	1483.6	1462.0	1443.4	1439.4	1433.5	1441.4
12.5°	1608.3	1607.3	1594.6	1584.8	1560.2	1539.6	1504.2	1478.7	1473.8	1466.9	1472.8
15°	1695.7	1686.9	1673.1	1667.2	1631.9	1600.5	1560.2	1521.9	1517.0	1509.2	1514.1
17.5°	1791.9	1787.0	1765.4	1758.5	1714.4	1678.0	1628.0	1578.9	1571.0	1560.2	1559.2
20°	1907.8	1899.0	1882.3	1862.6	1819.4	1767.4	1709.5	1653.5	1646.6	1637.8	1619.1
22.5°	2032.5	2022.7	2006.0	1985.4	1930.4	1875.4	1802.7	1732.0	1728.1	1722.2	1687.9
25°	2151.3	2134.6	2136.6	2116.9	2067.8	1998.1	1912.7	1828.3	1826.3	1825.3	1770.3
27.5°	2278.0	2260.3	2254.4	2247.5	2201.4	2135.6	2039.4	1958.9	1952.0	1953.0	1869.5
30°	2396.8	2388.9	2384.0	2379.1	2356.5	2297.6	2205.3	2133.6	2155.2	2153.3	2038.4
32.5°	2489.1	2483.2	2503.8	2527.4	2521.5	2472.4	2408.6	2376.2	2397.8	2467.5	2367.3
35°	2570.6	2567.6	2606.9	2657.0	2692.3	2657.0	2650.1	2700.2	2750.2	2866.1	2808.2
37.5°	2658.9	2655.0	2688.4	2773.8	2835.7	2846.5	2898.5	3027.1	3075.3	3191.1	3069.4
40°	2658.0	2662.9	2743.4	2852.4	2965.3	3056.6	3163.6	3288.3	3350.2	3405.2	3216.6
42.5°	2614.8	2617.7	2718.8	2926.0	3090.0	3269.7	3364.9	3525.0	3567.2	3578.0	3390.4
45°	2570.6	2572.5	2682.5	2915.2	3194.1	3469.0	3575.0	3721.3	3753.7	3716.4	3508.3
47.5°	2506.7	2519.5	2638.3	2904.4	3283.4	3652.6	3738.0	3883.3	3896.1	3849.0	3606.5
50°	2431.1	2438.0	2574.5	2869.1	3342.3	3766.5	3867.6	3999.2	4023.7	3970.7	3728.2
52.5°	2338.8	2344.7	2493.0	2821.9	3374.7	3853.9	3966.8	4123.9	4157.3	4133.7	3835.2
55°	2232.8	2235.7	2387.0	2745.3	3365.9	3892.2	4053.2	4300.6	4356.6	4298.7	3924.6
57.5°	2100.2	2111.0	2282.9	2630.5	3299.1	3940.3	4209.3	4518.6	4590.3	4466.6	3991.3
60°	1963.8	1974.6	2130.7	2496.9	3187.2	3961.9	4370.4	4753.3	4816.1	4625.6	4032.6
62.5°	1810.6	1825.3	1954.9	2295.6	2986.9	3933.4	4489.2	4958.5	4993.8	4720.9	4021.8
65°	1587.7	1595.6	1736.9	2053.1	2725.7	3785.2	4484.3	5068.5	5080.3	4825.9	3974.7
67.5°	1340.3	1341.2	1474.8	1760.5	2366.3	3508.3	4415.5	5140.1	5198.1	4903.5	3871.6
70°	1019.2	1032.9	1137.0	1349.1	1934.3	3035.0	4188.7	5069.5	5042.0	4691.4	3576.0
72.5°	727.6	719.7	772.7	916.1	1354.0	2341.8	3611.4	4580.5	4586.4	4273.1	3111.6
75°	386.9	388.8	434.0	554.8	691.2	1523.9	2888.7	3869.6	3904.9	3664.4	2435.1
77.5°	86.4	98.2	149.2	212.1	300.5	488.0	1567.1	2538.2	2604.9	2411.5	1334.4
80°	66.8	67.7	98.2	120.8	132.6	233.7	497.8	921.0	1022.1	965.2	501.7
82.5°	44.2	45.2	64.8	66.8	63.8	107.0	225.8	275.9	303.4	265.1	186.6
85°	23.6	24.5	29.5	32.4	25.5	31.4	29.5	23.6	24.5	21.6	21.6
87.5°	4.9	2.9	3.9	2.9	2.9	2.0	2.9	2.9	2.9	2.9	2.9
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°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1372.7	1374.6	1379.5	1387.4	1391.3	1400.2	1406.1	1420.8	1441.4	1434.5	1425.7
5°	1380.5	1386.4	1403.1	1423.7	1439.4	1463.0	1474.8	1503.3	1526.8	1524.9	1509.2
7.5°	1410.0	1422.7	1443.4	1473.8	1500.3	1523.9	1540.6	1571.0	1592.6	1583.8	1569.0
10°	1447.3	1460.1	1482.6	1510.1	1529.8	1555.3	1566.1	1590.6	1604.4	1593.6	1580.8
12.5°	1481.7	1488.5	1504.2	1524.9	1535.7	1552.4	1557.3	1574.9	1587.7	1582.8	1567.1
15°	1515.0	1514.1	1517.0	1522.9	1526.8	1530.8	1531.7	1544.5	1553.3	1543.5	1532.7
17.5°	1552.4	1542.5	1529.8	1520.0	1505.2	1498.4	1485.6	1491.5	1490.5	1482.6	1473.8
20°	1599.5	1581.8	1542.5	1512.1	1473.8	1443.4	1416.9	1411.9	1411.9	1390.3	1389.4
22.5°	1655.5	1626.0	1560.2	1493.4	1431.6	1383.5	1334.4	1305.9	1285.3	1269.6	1262.7
25°	1728.1	1674.1	1575.9	1467.9	1376.6	1289.2	1215.6	1176.3	1137.0	1111.5	1107.6
27.5°	1805.7	1746.8	1585.7	1445.3	1301.0	1181.2	1079.1	998.6	962.2	945.6	929.8
30°	1932.3	1828.3	1603.4	1397.2	1205.8	1048.6	913.1	818.9	783.5	771.8	761.9
32.5°	2239.7	2039.4	1620.1	1348.1	1103.6	902.3	723.6	644.1	613.7	625.5	629.4
35°	2624.6	2353.6	1699.6	1291.2	997.6	736.4	556.7	503.7	505.7	523.3	529.2
37.5°	2885.7	2630.5	1861.6	1219.5	845.4	545.9	431.0	414.4	429.1	444.8	447.7
40°	3038.9	2757.1	1975.5	1131.1	665.7	408.5	324.0	312.2	343.7	379.0	400.6
42.5°	3201.9	2865.1	2034.5	1016.2	467.4	295.5	248.4	257.3	307.3	337.8	351.5
45°	3289.3	2949.6	2007.9	852.3	318.1	229.8	222.9	247.4	297.5	325.0	328.9
47.5°	3383.6	3034.0	1944.1	681.4	243.5	218.0	219.0	248.4	299.5	328.9	328.9
50°	3465.1	3103.7	1830.2	534.1	231.7	210.1	219.9	253.3	302.4	327.9	327.0
52.5°	3559.3	3135.1	1668.2	432.0	219.9	203.2	220.9	257.3	297.5	312.2	310.3
55°	3588.8	3112.6	1590.6	361.3	211.1	199.3	224.9	263.1	295.5	298.5	293.6
57.5°	3588.8	3051.7	1502.3	308.3	203.2	199.3	226.8	262.2	306.3	325.0	323.0
60°	3573.1	2987.9	1366.8	275.9	192.4	197.4	227.8	276.9	364.3	384.9	383.9
62.5°	3523.0	2884.8	1199.9	243.5	181.6	198.3	224.9	297.5	416.3	407.5	385.9
65°	3404.2	2690.4	973.0	214.1	169.9	198.3	220.9	327.0	370.2	353.5	345.6
67.5°	3180.3	2445.9	723.6	183.6	156.1	185.6	215.0	306.3	314.2	295.5	283.8
70°	2884.8	2071.8	464.4	155.1	141.4	174.8	211.1	287.7	303.4	280.8	266.1
72.5°	2403.6	1645.6	269.0	126.7	119.8	161.0	203.2	278.9	298.5	268.1	247.4
75°	1695.7	1038.8	176.7	93.3	96.2	137.5	188.5	261.2	279.8	242.5	213.1
77.5°	864.1	389.8	125.7	68.7	64.8	105.1	163.0	240.6	275.9	244.5	209.1
80°	305.4	196.4	82.5	45.2	42.2	64.8	124.7	204.2	259.2	238.6	231.7
82.5°	130.6	98.2	45.2	28.5	25.5	32.4	70.7	161.0	227.8	216.0	261.2
85°	18.7	16.7	12.8	10.8	10.8	14.7	22.6	79.5	154.2	175.8	213.1
87.5°	2.9	2.9	2.9	2.0	2.0	2.0	1.0	11.8	51.1	76.6	106.0
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)