

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: P233459

Luminaire Tested: **VERD-C026-D-U-T2-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233459  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C026-D-U-T2-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 790mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7120 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 62  
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

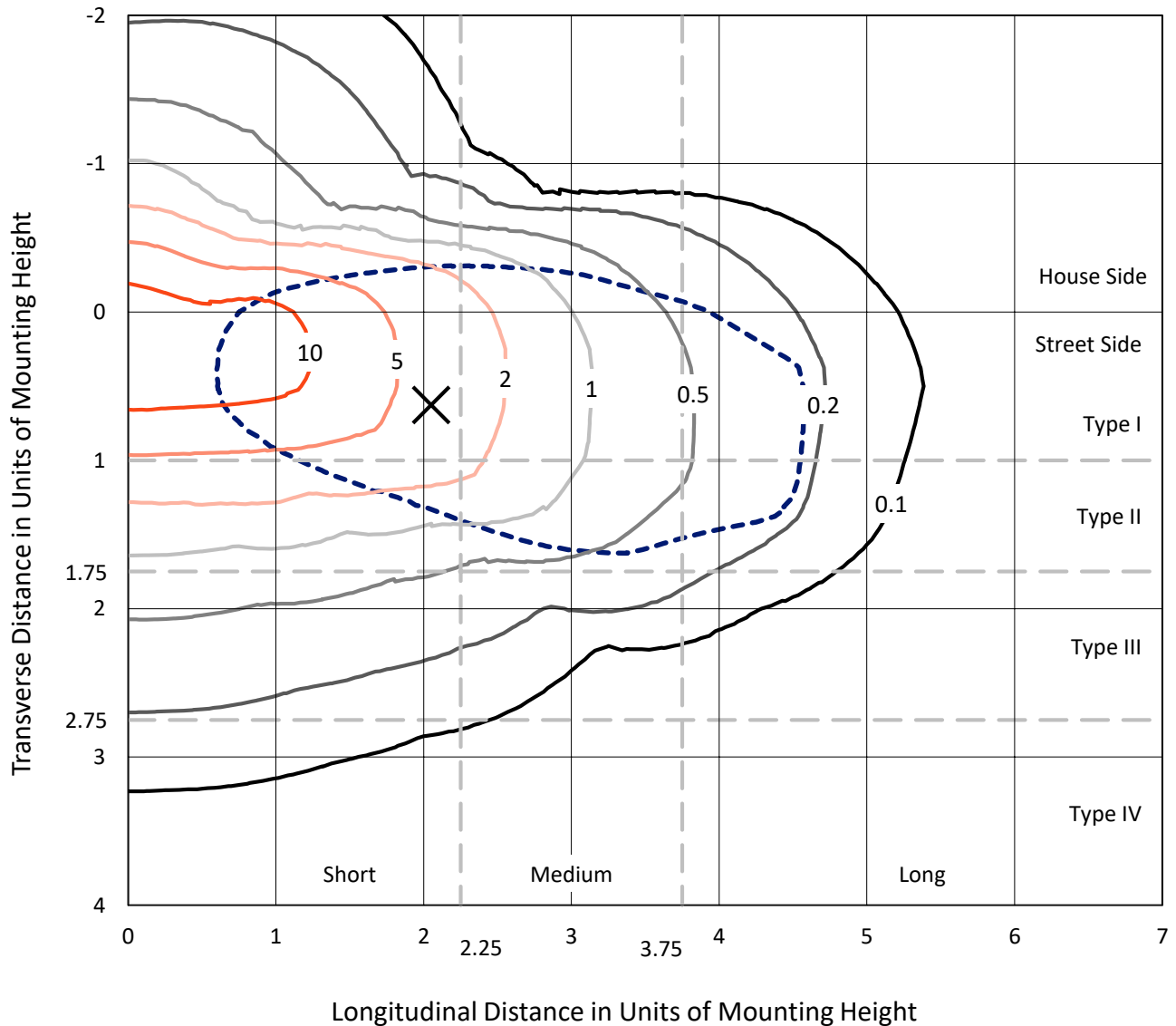


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

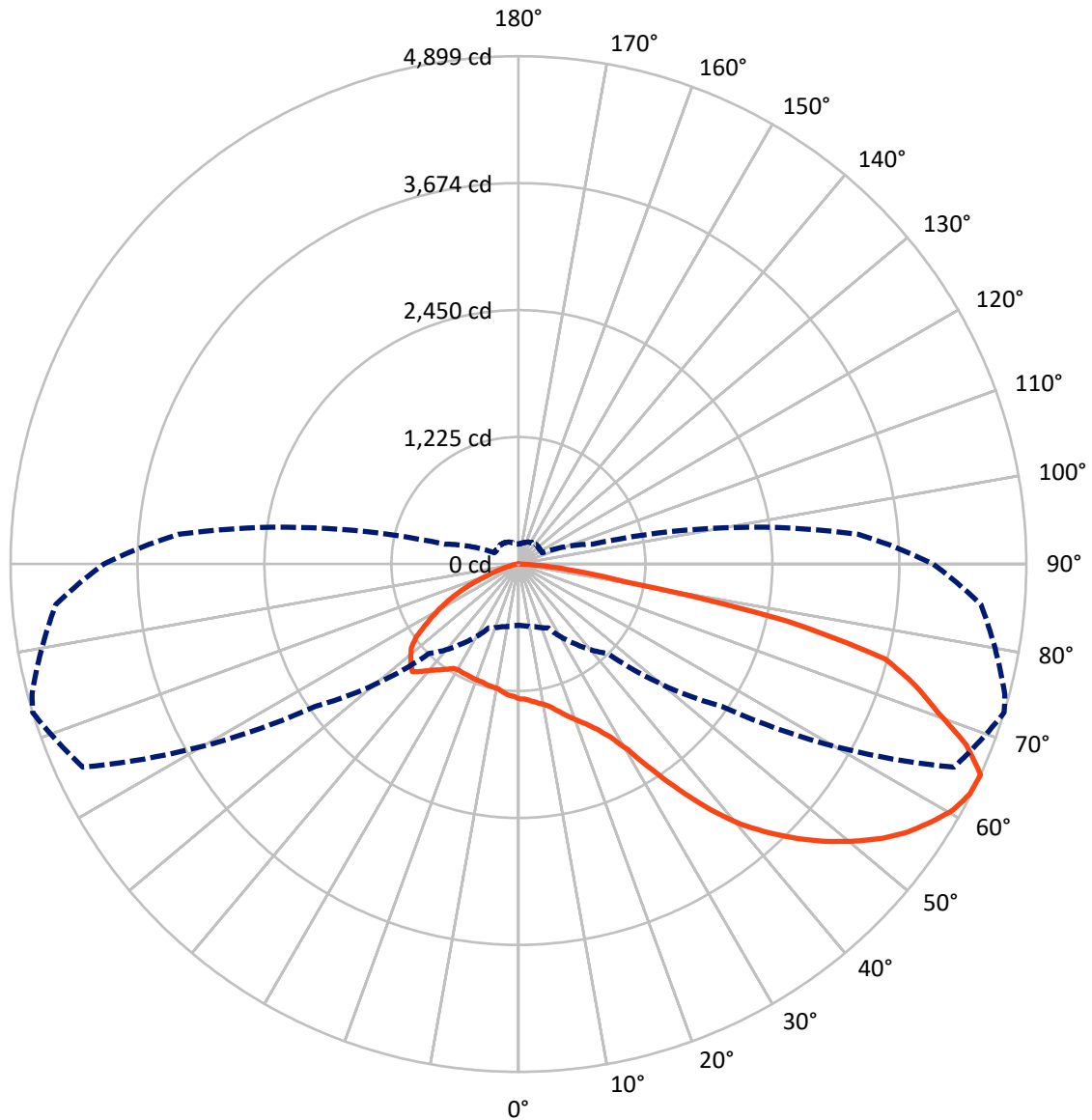


Based on 10 foot mounting height. Maximum calculated value = 15.1 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1825.2	0.0	1825.2
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	5294.8	0.0	5294.8
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	7120.0	0.0	7120.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.2	1.7
10°-20°	375.6	5.3
20°-30°	630.1	8.8
30°-40°	924.0	13.0
40°-50°	1248.8	17.5
50°-60°	1446.7	20.3
60°-70°	1413.2	19.8
70°-80°	848.6	11.9
80°-90°	108.7	1.5
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°	7120.0	100.0
0°-180°	7120.0	100.0



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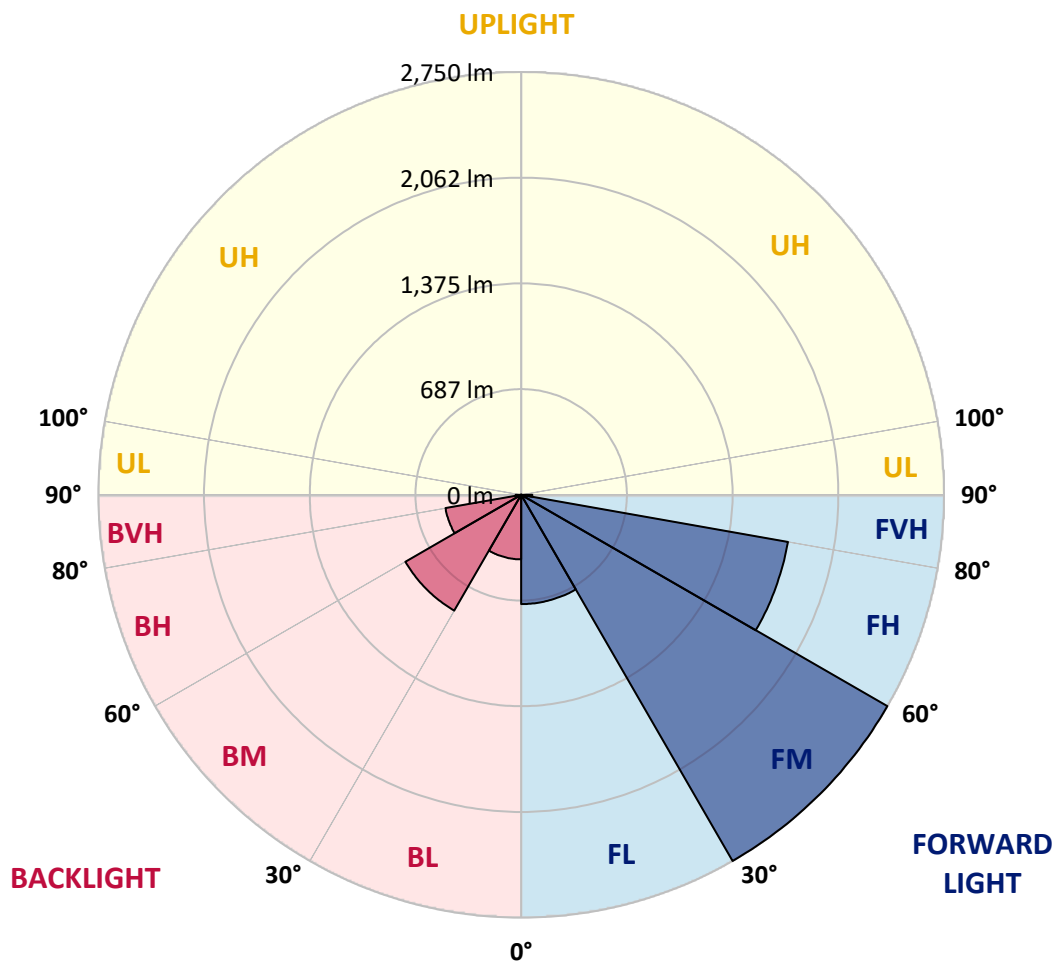
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.5	10.0			
FM (30°-60°)	2750.0	38.6			
FH (60°-80°)	1762.0	24.7			G1/1800
FVH (80°-90°)	72.4	1.0			G1/100
BL (0°-30°)	419.5	5.9	B1/500		
BM (30°-60°)	869.6	12.2	B1/1000		
BH (60°-80°)	499.7	7.0	B1/500		G1/500
BVH (80°-90°)	36.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9
2.5°	1382.0	1387.2	1381.4	1364.6	1356.2	1350.4	1332.9	1317.4	1305.1	1303.8	1292.2
5°	1435.0	1442.8	1433.1	1411.8	1403.4	1391.1	1371.7	1350.4	1328.4	1323.9	1300.6
7.5°	1502.3	1503.6	1498.4	1477.1	1459.6	1433.8	1400.1	1377.5	1352.3	1345.2	1308.4
10°	1559.2	1558.5	1552.1	1531.4	1513.9	1491.3	1444.1	1407.3	1377.5	1368.5	1317.4
12.5°	1613.5	1612.2	1605.7	1584.4	1562.4	1543.6	1508.1	1458.3	1418.2	1406.6	1343.3
15°	1680.7	1677.5	1667.1	1638.7	1621.2	1599.2	1573.4	1523.6	1477.7	1461.6	1380.8
17.5°	1732.4	1731.8	1724.0	1700.1	1679.4	1655.5	1631.6	1592.8	1543.0	1524.9	1417.6
20°	1762.1	1759.6	1757.6	1738.9	1733.7	1720.8	1686.5	1656.8	1607.0	1588.3	1459.0
22.5°	1793.8	1794.5	1795.1	1785.4	1800.3	1789.3	1764.1	1727.9	1677.5	1656.1	1517.1
25°	1800.9	1802.2	1815.1	1836.5	1854.6	1874.6	1856.5	1821.0	1766.7	1744.0	1596.7
27.5°	1780.9	1786.1	1824.8	1861.0	1925.0	1950.9	1947.7	1945.7	1890.1	1867.5	1705.9
30°	1799.0	1799.0	1825.5	1887.5	1968.3	2036.2	2051.1	2092.5	2075.7	2059.5	1889.5
32.5°	1744.7	1754.4	1801.6	1888.2	2016.2	2115.1	2182.3	2297.4	2364.0	2350.4	2149.3
35°	1642.5	1655.5	1724.6	1857.2	2040.1	2208.2	2328.4	2550.1	2678.8	2694.9	2462.2
37.5°	1563.7	1574.7	1661.3	1808.7	2049.1	2295.4	2497.1	2834.5	3000.7	2992.3	2727.2
40°	1467.4	1486.8	1574.0	1751.1	2027.8	2369.8	2680.1	3095.7	3300.0	3261.2	2979.3
42.5°	1380.8	1397.6	1470.6	1659.4	1998.1	2411.8	2845.5	3364.6	3543.7	3512.6	3217.9
45°	1289.0	1303.8	1371.7	1549.5	1928.9	2432.5	3000.7	3621.9	3777.7	3742.8	3438.9
47.5°	1183.6	1203.6	1284.4	1446.0	1827.4	2419.5	3113.8	3845.5	4000.0	3974.2	3621.9
50°	917.9	938.6	1150.0	1349.1	1686.5	2365.9	3215.3	4069.2	4201.1	4176.5	3783.5
52.5°	833.2	842.3	908.2	1237.9	1539.8	2259.9	3278.6	4253.4	4396.9	4372.4	3936.0
55°	781.5	788.0	824.8	1011.0	1415.0	2089.2	3286.4	4444.8	4561.8	4529.5	4098.3
57.5°	728.5	735.6	776.3	872.0	1289.6	1822.3	3204.3	4607.0	4695.6	4660.7	4253.4
60°	683.9	687.8	727.9	793.8	1148.0	1557.2	2992.9	4717.6	4819.1	4773.8	4405.3
62.5°	643.2	648.4	677.4	737.6	1029.1	1358.8	2698.2	4718.2	4886.9	4859.1	4482.3
65°	590.2	597.9	626.4	680.7	932.8	1223.0	2393.0	4636.1	4899.2	4857.8	4478.4
67.5°	528.8	538.5	564.3	607.6	804.8	1078.2	1967.7	4528.2	4659.4	4652.3	4293.5
70°	467.4	467.4	496.4	531.4	667.8	923.1	1554.6	4143.5	4293.5	4304.5	3961.9
72.5°	394.3	395.6	418.2	448.6	537.8	757.6	1132.5	3542.4	4002.6	3869.5	3573.4
75°	331.0	329.7	352.9	378.2	437.6	596.6	738.9	2602.5	3658.1	3687.8	3144.8
77.5°	175.8	169.4	199.1	219.1	256.6	331.6	409.8	1305.1	2649.0	2707.2	2517.8
80°	49.8	50.4	131.9	147.4	168.7	164.2	190.0	497.7	1047.8	1181.0	1468.0
82.5°	29.7	34.3	75.0	87.9	65.9	42.7	72.4	276.7	542.3	607.6	728.5
85°	15.5	16.8	26.5	33.0	25.2	21.3	22.0	116.4	263.7	268.3	290.9
87.5°	7.1	7.1	9.7	10.3	6.5	3.9	2.6	1.9	1.9	1.3	1.3
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°	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9
2.5°	1283.1	1289.6	1278.6	1270.2	1263.7	1259.9	1255.3	1244.4	1247.6	1252.1	1251.5
5°	1289.6	1292.8	1273.4	1246.9	1222.4	1204.9	1193.3	1175.8	1175.8	1182.9	1182.9
7.5°	1295.4	1290.9	1251.5	1206.9	1179.1	1164.8	1146.1	1127.4	1124.1	1129.3	1129.9
10°	1298.7	1279.3	1224.3	1182.9	1146.7	1117.7	1093.7	1072.4	1071.8	1078.9	1080.2
12.5°	1312.9	1275.4	1222.4	1165.5	1111.2	1080.2	1051.7	1027.8	1019.4	1020.0	1021.3
15°	1334.9	1290.9	1219.8	1141.6	1082.8	1041.4	1000.0	969.6	961.9	972.2	976.1
17.5°	1361.4	1316.1	1207.5	1119.6	1047.8	998.1	956.7	929.6	905.0	894.0	892.1
20°	1396.3	1337.4	1214.0	1087.3	1014.2	947.6	895.9	863.0	842.3	841.0	839.7
22.5°	1442.2	1361.4	1215.3	1065.9	961.2	892.1	828.1	809.3	772.5	758.9	764.7
25°	1502.9	1397.6	1212.0	1043.3	920.5	827.4	750.5	716.2	702.7	687.1	688.4
27.5°	1581.1	1455.1	1220.4	1013.6	853.9	748.6	662.6	625.7	605.0	592.1	594.1
30°	1740.2	1542.4	1219.8	985.1	792.5	667.1	570.1	545.6	524.9	513.3	519.1
32.5°	1966.4	1731.8	1246.9	947.0	722.7	557.9	492.6	464.8	447.3	434.4	437.6
35°	2246.3	1938.0	1316.8	895.3	643.2	474.5	429.9	395.6	374.3	369.1	367.2
37.5°	2506.2	2120.3	1382.7	861.0	552.0	428.6	372.3	338.1	319.3	325.8	325.8
40°	2738.2	2362.0	1457.0	806.1	469.3	376.2	308.3	292.8	283.1	294.1	298.0
42.5°	2913.4	2594.1	1557.9	733.7	402.1	314.2	263.7	274.7	278.6	286.4	284.4
45°	3130.6	2726.6	1657.4	666.5	343.2	261.8	254.7	277.3	286.4	293.5	290.2
47.5°	3330.3	2829.4	1637.4	542.3	288.9	253.4	259.2	277.3	292.8	304.5	302.5
50°	3502.3	2958.0	1599.2	421.5	277.3	261.2	263.7	270.2	293.5	301.2	301.2
52.5°	3609.6	3085.4	1552.1	340.7	285.7	270.8	266.3	265.7	281.2	287.0	281.8
55°	3738.9	3217.2	1429.9	316.1	288.9	277.3	273.4	267.6	272.1	267.6	270.2
57.5°	3882.4	3347.2	1242.4	309.0	287.0	275.4	296.1	265.0	262.4	246.3	242.4
60°	4008.4	3398.2	1078.2	292.8	276.7	270.2	275.4	261.8	248.9	227.5	219.1
62.5°	4055.6	3393.7	911.5	276.0	261.2	262.4	261.8	252.1	240.5	219.1	214.0
65°	3998.7	3290.3	738.9	256.0	248.9	254.0	247.6	233.4	214.0	196.5	192.0
67.5°	3806.1	3026.5	548.8	229.5	228.8	238.5	234.0	214.6	193.3	179.7	179.7
70°	3437.7	2702.0	355.5	190.7	204.9	221.7	221.7	201.0	173.2	161.6	164.8
72.5°	3034.3	2325.2	230.1	141.6	161.6	201.0	199.7	185.5	159.7	144.8	145.4
75°	2628.3	1844.9	148.7	97.6	104.7	171.3	177.1	151.3	124.1	106.0	102.8
77.5°	1998.1	1387.9	94.4	56.9	66.6	104.7	134.5	126.1	126.7	154.5	153.2
80°	1228.8	836.5	68.5	27.8	33.0	68.5	108.6	120.2	168.7	111.2	102.1
82.5°	615.4	391.1	36.2	16.8	18.7	30.4	64.6	144.2	122.8	73.7	69.8
85°	230.1	105.4	11.0	8.4	10.3	15.5	26.5	131.9	78.2	58.8	57.5
87.5°	1.3	1.9	1.9	2.6	3.9	4.5	9.7	62.7	39.4	28.4	27.1
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)