

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: P509295

Luminaire Tested: **VERD-CA2-70-722-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509295
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-CA2-70-722-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 980mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8581 lumens
Efficiency: N/A
Efficacy: 116.6 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

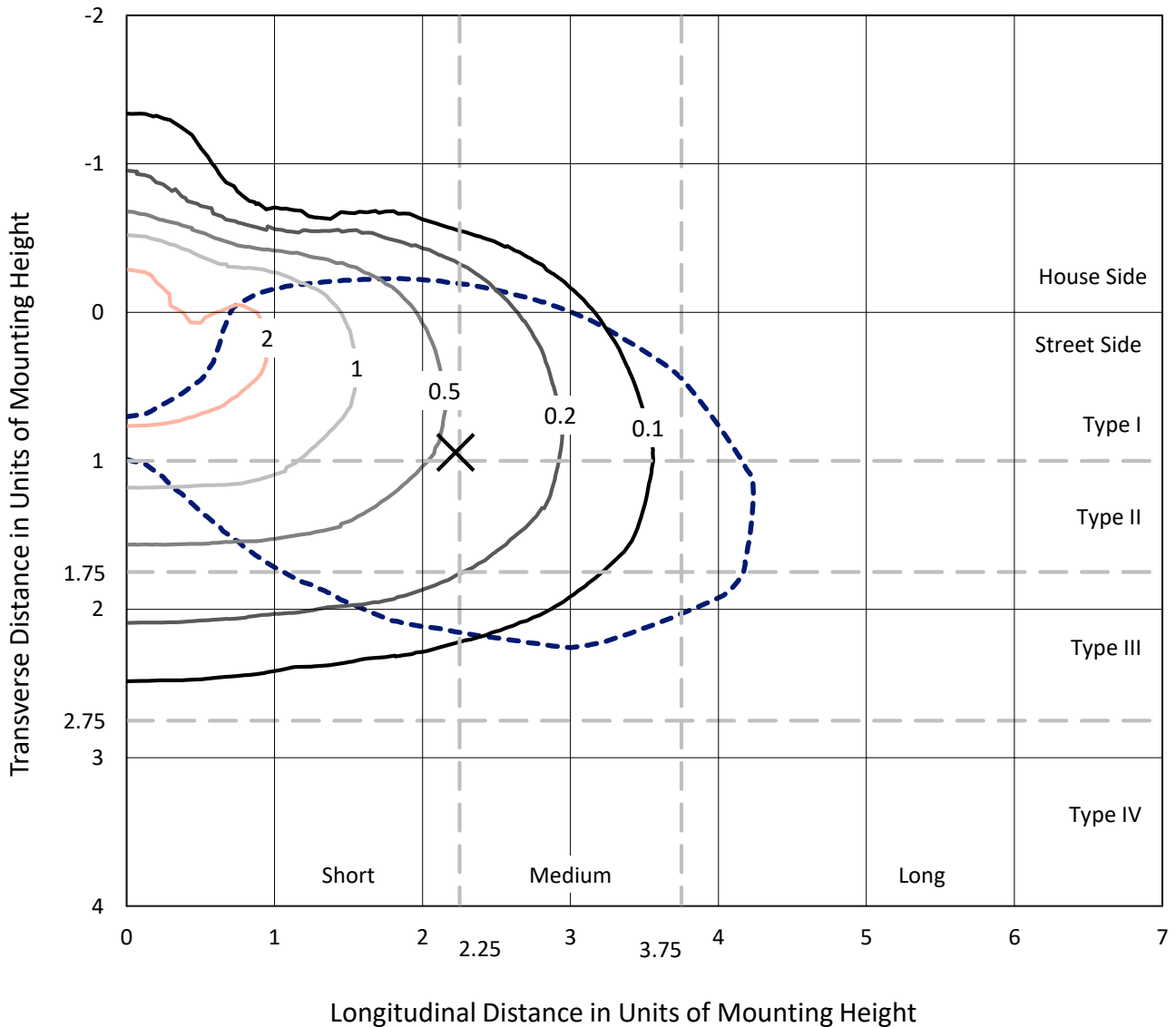
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

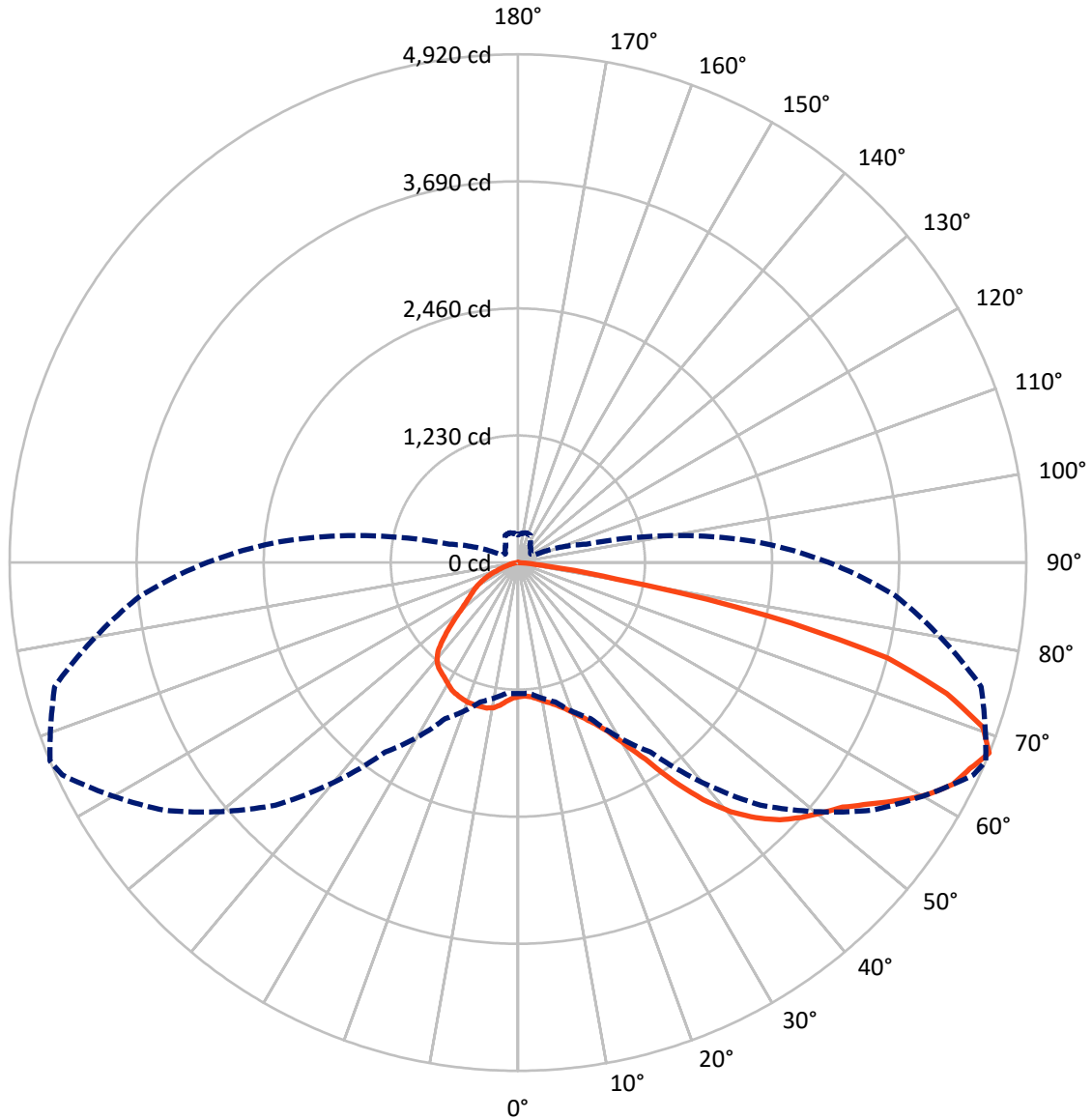
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
House Side	Lumens	1962.1	0.0	1962.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6618.9	0.0	6618.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	8581.0	0.0	8581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.5
10°-20°	420.8	4.9
20°-30°	727.0	8.5
30°-40°	1103.5	12.9
40°-50°	1499.5	17.5
50°-60°	1783.4	20.8
60°-70°	1834.9	21.4
70°-80°	1000.9	11.7
80°-90°	79.5	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°	8581.0	100.0
0°-180°	8581.0	100.0

Coefficient of Utilization



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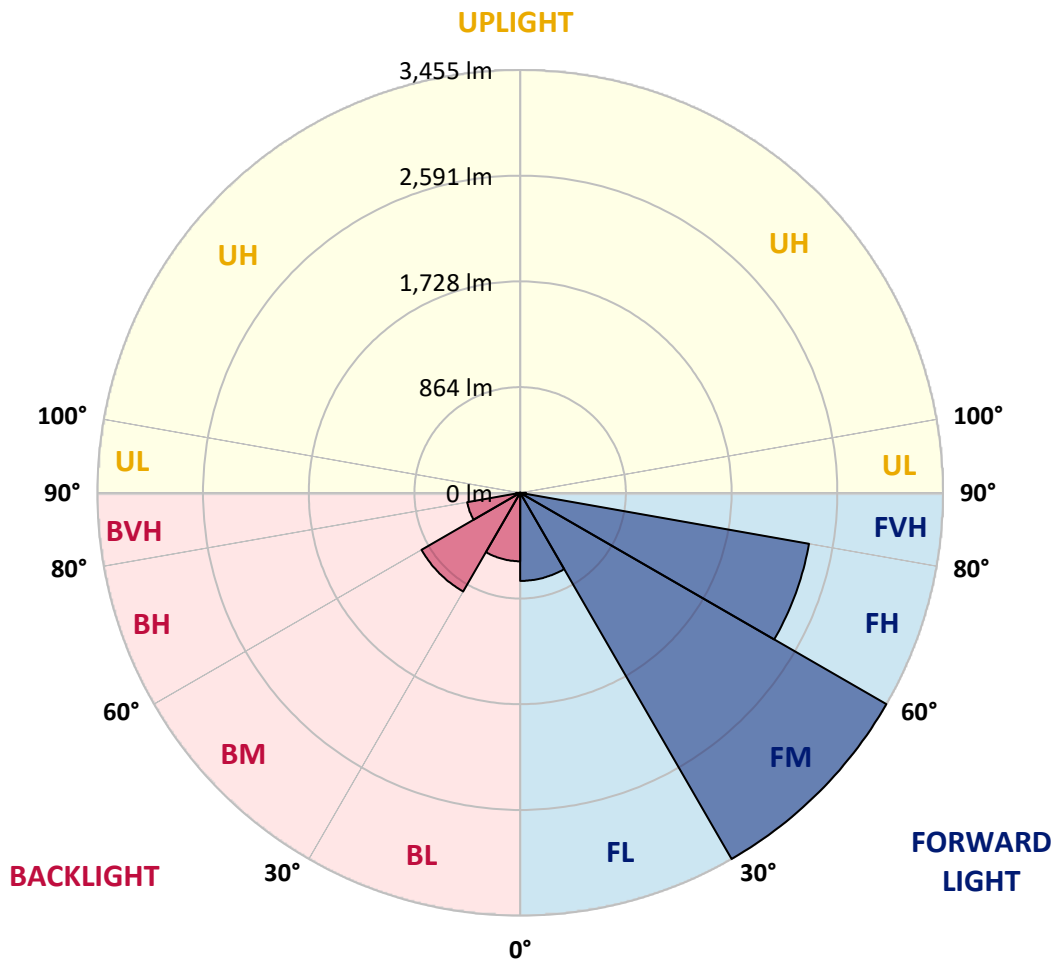
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.7	8.4			
FM (30°-60°)	3455.1	40.3			
FH (60°-80°)	2396.5	27.9			G2/5000
FVH (80°-90°)	47.6	0.6			G1/100
BL (0°-30°)	559.5	6.5	B2/1000		
BM (30°-60°)	931.4	10.9	B1/1000		
BH (60°-80°)	439.3	5.1	B1/500		G1/500
BVH (80°-90°)	31.9	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°	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2
2.5°	1305.6	1300.0	1292.6	1295.4	1289.8	1299.1	1295.4	1293.5	1293.5	1294.4	1299.1
5°	1335.3	1329.8	1324.2	1323.3	1312.1	1315.8	1310.2	1304.7	1304.7	1303.7	1305.6
7.5°	1387.4	1379.9	1373.4	1372.5	1358.6	1356.7	1340.0	1328.8	1328.8	1327.9	1330.7
10°	1456.1	1453.3	1440.3	1432.0	1415.3	1404.1	1383.7	1366.0	1362.3	1356.7	1364.1
12.5°	1522.1	1521.2	1509.1	1499.8	1476.6	1457.1	1423.6	1399.5	1394.8	1388.3	1393.9
15°	1604.8	1596.5	1583.4	1577.9	1544.4	1514.7	1476.6	1440.3	1435.7	1428.3	1432.9
17.5°	1695.9	1691.2	1670.8	1664.3	1622.5	1588.1	1540.7	1494.2	1486.8	1476.6	1475.7
20°	1805.5	1797.2	1781.4	1762.8	1721.9	1672.7	1617.8	1564.9	1558.4	1550.0	1532.3
22.5°	1923.6	1914.3	1898.5	1878.9	1826.9	1774.9	1706.1	1639.2	1635.5	1629.9	1597.4
25°	2036.0	2020.2	2022.1	2003.5	1957.0	1891.0	1810.2	1730.3	1728.4	1727.5	1675.4
27.5°	2155.9	2139.1	2133.6	2127.1	2083.4	2021.1	1930.1	1853.9	1847.4	1848.3	1769.3
30°	2268.3	2260.9	2256.2	2251.6	2230.2	2174.4	2087.1	2019.3	2039.7	2037.8	1929.1
32.5°	2355.7	2350.1	2369.6	2391.9	2386.3	2339.9	2279.5	2248.8	2269.2	2335.2	2240.4
35°	2432.8	2430.0	2467.2	2514.6	2548.0	2514.6	2508.1	2555.4	2602.8	2712.5	2657.7
37.5°	2516.4	2512.7	2544.3	2625.1	2683.7	2693.9	2743.2	2864.9	2910.4	3020.1	2904.8
40°	2515.5	2520.1	2596.3	2699.5	2806.3	2892.8	2994.0	3112.1	3170.6	3222.6	3044.2
42.5°	2474.6	2477.4	2573.1	2769.2	2924.4	3094.4	3184.5	3336.0	3376.0	3386.2	3208.7
45°	2432.8	2434.6	2538.7	2758.9	3022.9	3283.0	3383.4	3521.9	3552.5	3517.2	3320.2
47.5°	2372.4	2384.5	2496.9	2748.7	3107.4	3456.8	3537.7	3675.2	3687.3	3642.7	3413.1
50°	2300.8	2307.3	2436.5	2715.3	3163.2	3564.6	3660.3	3784.8	3808.1	3757.9	3528.4
52.5°	2213.5	2219.1	2359.4	2670.7	3193.8	3647.3	3754.2	3902.9	3934.5	3912.1	3629.7
55°	2113.1	2115.9	2259.0	2598.2	3185.5	3683.6	3836.0	4070.1	4123.1	4068.3	3714.2
57.5°	1987.7	1997.9	2160.5	2489.5	3122.3	3729.1	3983.7	4276.4	4344.3	4227.2	3777.4
60°	1858.5	1868.7	2016.5	2363.1	3016.4	3749.5	4136.1	4498.5	4558.0	4377.7	3816.4
62.5°	1713.5	1727.5	1850.1	2172.6	2826.8	3722.6	4248.5	4692.7	4726.2	4467.8	3806.2
65°	1502.6	1510.0	1643.8	1943.1	2579.6	3582.3	4243.9	4796.8	4807.9	4567.3	3761.6
67.5°	1268.4	1269.4	1395.7	1666.1	2239.5	3320.2	4178.8	4864.6	4919.5	4640.7	3664.0
70°	964.6	977.6	1076.1	1276.8	1830.6	2872.3	3964.2	4797.7	4771.7	4440.0	3384.3
72.5°	688.6	681.1	731.3	867.0	1281.4	2216.3	3417.8	4335.0	4340.5	4044.1	2944.8
75°	366.1	368.0	410.7	525.0	654.2	1442.2	2733.9	3662.2	3695.6	3468.0	2304.5
77.5°	81.8	92.9	141.2	200.7	284.4	461.8	1483.1	2402.1	2465.3	2282.2	1262.9
80°	63.2	64.1	92.9	114.3	125.4	221.2	471.1	871.6	967.4	913.5	474.8
82.5°	41.8	42.7	61.3	63.2	60.4	101.3	213.7	261.1	287.1	250.9	176.6
85°	22.3	23.2	27.9	30.7	24.2	29.7	27.9	22.3	23.2	20.4	20.4
87.5°	4.6	2.8	3.7	2.8	2.8	1.9	2.8	2.8	2.8	2.8	2.8
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°	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2	1298.2
2.5°	1299.1	1301.0	1305.6	1313.0	1316.7	1325.1	1330.7	1344.6	1364.1	1357.6	1349.3
5°	1306.5	1312.1	1327.9	1347.4	1362.3	1384.6	1395.7	1422.7	1445.0	1443.1	1428.3
7.5°	1334.4	1346.5	1366.0	1394.8	1419.9	1442.2	1458.0	1486.8	1507.2	1498.9	1484.9
10°	1369.7	1381.8	1403.2	1429.2	1447.8	1471.9	1482.2	1505.4	1518.4	1508.2	1496.1
12.5°	1402.2	1408.7	1423.6	1443.1	1453.3	1469.1	1473.8	1490.5	1502.6	1498.0	1483.1
15°	1433.8	1432.9	1435.7	1441.3	1445.0	1448.7	1449.6	1461.7	1470.1	1460.8	1450.6
17.5°	1469.1	1459.9	1447.8	1438.5	1424.5	1418.0	1406.0	1411.5	1410.6	1403.2	1394.8
20°	1513.8	1497.0	1459.9	1431.0	1394.8	1366.0	1340.9	1336.3	1336.3	1315.8	1314.9
22.5°	1566.7	1538.8	1476.6	1413.4	1354.8	1309.3	1262.9	1235.9	1216.4	1201.5	1195.0
25°	1635.5	1584.4	1491.4	1389.2	1302.8	1220.1	1150.4	1113.2	1076.1	1051.9	1048.2
27.5°	1708.9	1653.1	1500.7	1367.9	1231.3	1117.9	1021.2	945.0	910.7	894.9	880.0
30°	1828.8	1730.3	1517.5	1322.3	1141.1	992.4	864.2	775.0	741.5	730.4	721.1
32.5°	2119.6	1930.1	1533.3	1275.9	1044.5	854.0	684.9	609.6	580.8	591.9	595.7
35°	2483.9	2227.4	1608.5	1222.0	944.1	696.9	526.9	476.7	478.6	495.3	500.9
37.5°	2731.1	2489.5	1761.9	1154.1	800.1	516.7	407.9	392.1	406.1	421.0	423.7
40°	2876.0	2609.3	1869.7	1070.5	630.0	386.6	306.7	295.5	325.2	358.7	379.1
42.5°	3030.3	2711.6	1925.4	961.8	442.3	279.7	235.1	243.5	290.9	319.7	332.7
45°	3113.0	2791.5	1900.3	806.6	301.1	217.4	210.9	234.2	281.6	307.6	311.3
47.5°	3202.2	2871.4	1839.9	644.9	230.5	206.3	207.2	235.1	283.4	311.3	311.3
50°	3279.3	2937.4	1732.1	505.5	219.3	198.9	208.2	239.7	286.2	310.4	309.4
52.5°	3368.5	2967.1	1578.8	408.9	208.2	192.4	209.1	243.5	281.6	295.5	293.6
55°	3396.4	2945.7	1505.4	342.0	199.8	188.6	212.8	249.0	279.7	282.5	277.8
57.5°	3396.4	2888.1	1421.8	291.8	192.4	188.6	214.7	248.1	289.9	307.6	305.7
60°	3381.5	2827.7	1293.5	261.1	182.1	186.8	215.6	262.0	344.8	364.3	363.3
62.5°	3334.2	2730.1	1135.5	230.5	171.9	187.7	212.8	281.6	394.0	385.6	365.2
65°	3221.7	2546.1	920.9	202.6	160.8	187.7	209.1	309.4	350.3	334.5	327.1
67.5°	3009.8	2314.8	684.9	173.8	147.8	175.6	203.5	289.9	297.4	279.7	268.6
70°	2730.1	1960.7	439.5	146.8	133.8	165.4	199.8	272.3	287.1	265.8	251.8
72.5°	2274.8	1557.4	254.6	119.9	113.4	152.4	192.4	263.9	282.5	253.7	234.2
75°	1604.8	983.1	167.3	88.3	91.1	130.1	178.4	247.2	264.8	229.5	201.6
77.5°	817.7	368.9	118.9	65.0	61.3	99.4	154.3	227.7	261.1	231.4	197.9
80°	289.0	185.9	78.1	42.7	40.0	61.3	118.0	193.3	245.3	225.8	219.3
82.5°	123.6	92.9	42.7	26.9	24.2	30.7	66.9	152.4	215.6	204.4	247.2
85°	17.7	15.8	12.1	10.2	10.2	13.9	21.4	75.3	145.9	166.3	201.6
87.5°	2.8	2.8	2.8	1.9	1.9	1.9	0.9	11.2	48.3	72.5	100.4
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)