

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: P509303

Luminaire Tested: **VERD-CA2-70-727-U-T3**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509303
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-CA2-70-727-U-T3
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 980mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8916 lumens
Efficiency: N/A
Efficacy: 121.1 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

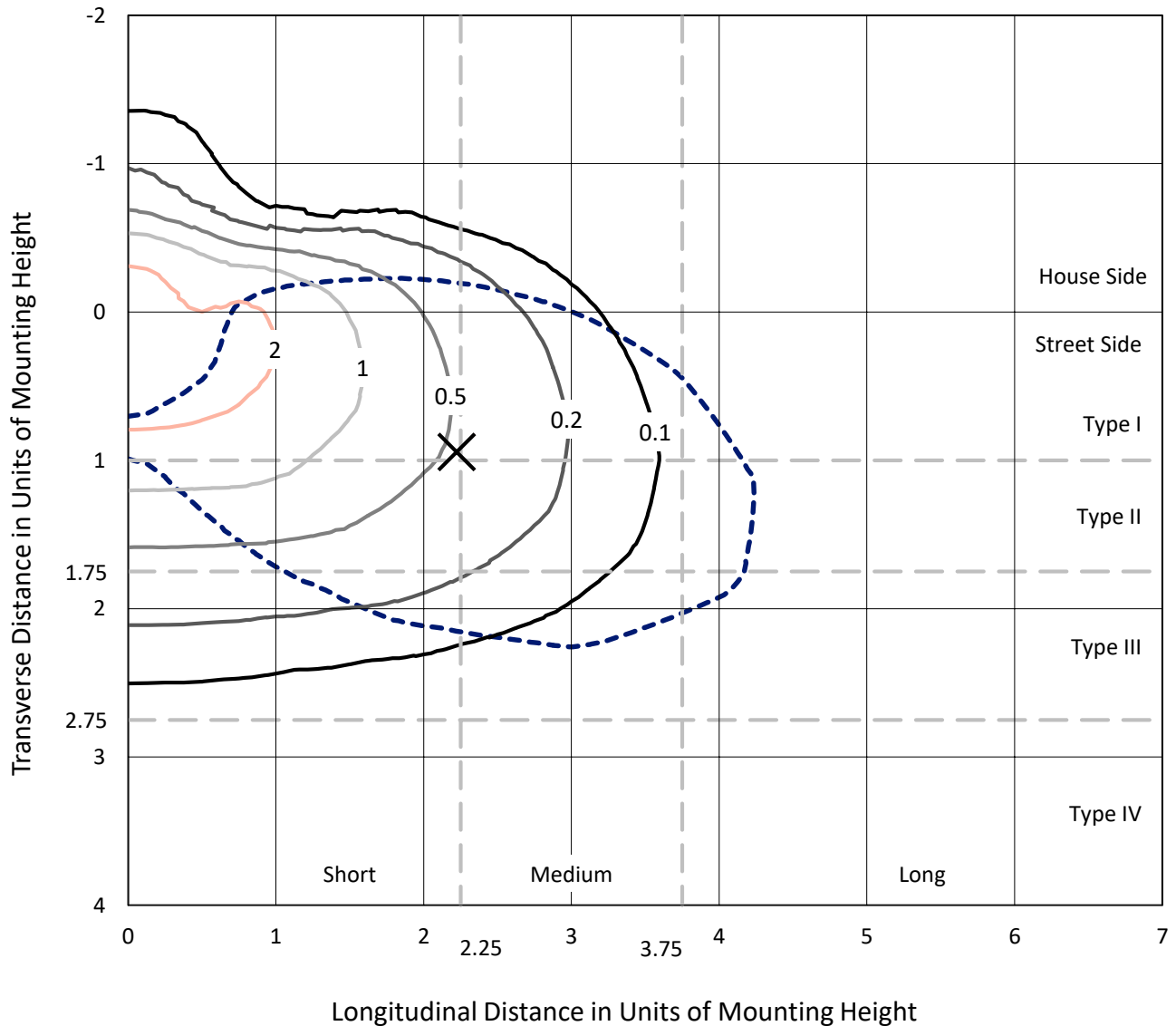
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

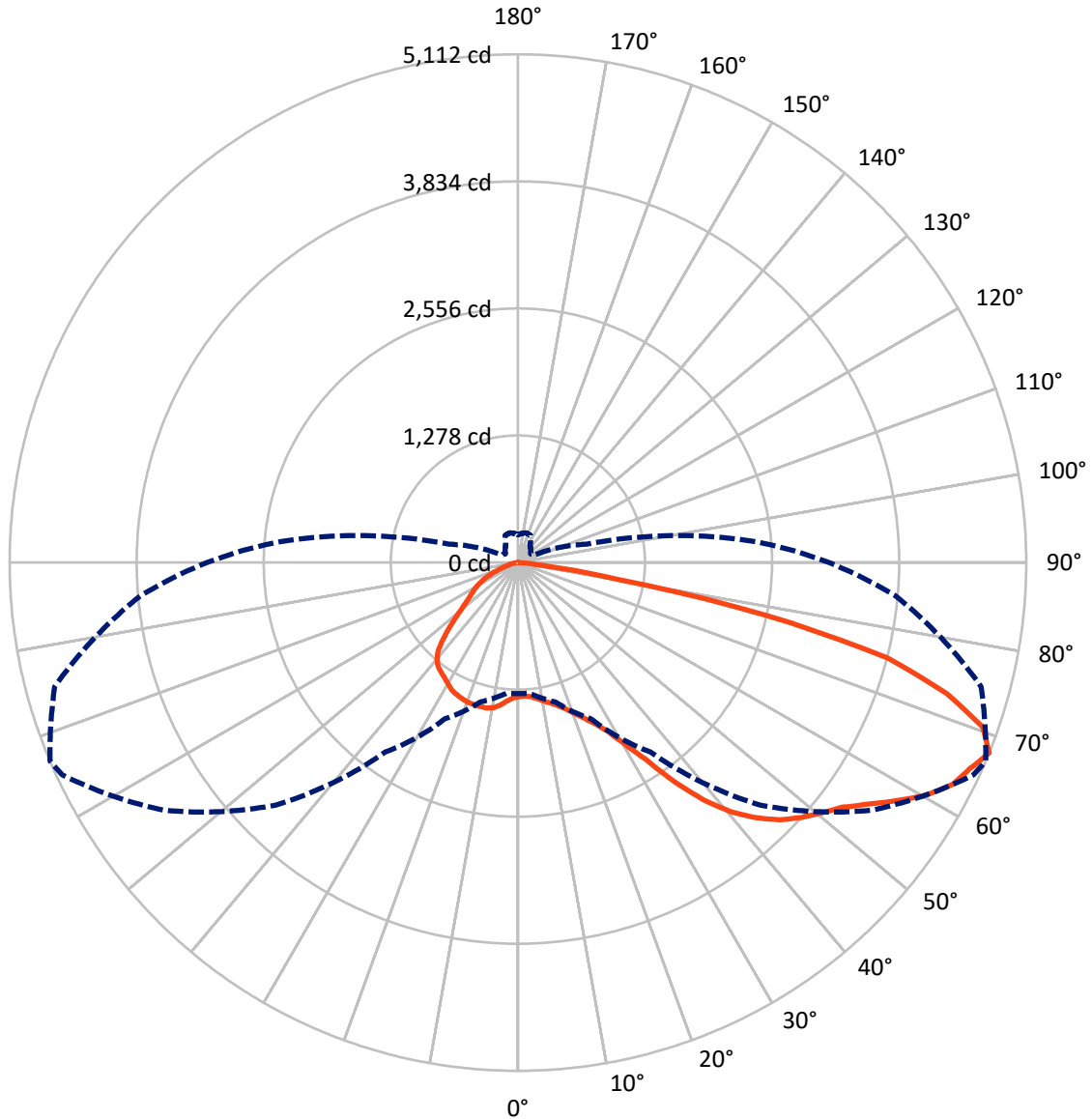
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	2038.7	0.0	2038.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6877.3	0.0	6877.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	8916.0	0.0	8916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.5
10°-20°	437.2	4.9
20°-30°	755.4	8.5
30°-40°	1146.6	12.9
40°-50°	1558.1	17.5
50°-60°	1853.0	20.8
60°-70°	1906.5	21.4
70°-80°	1040.0	11.7
80°-90°	82.6	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°	8916.0	100.0
0°-180°	8916.0	100.0

Coefficient of Utilization



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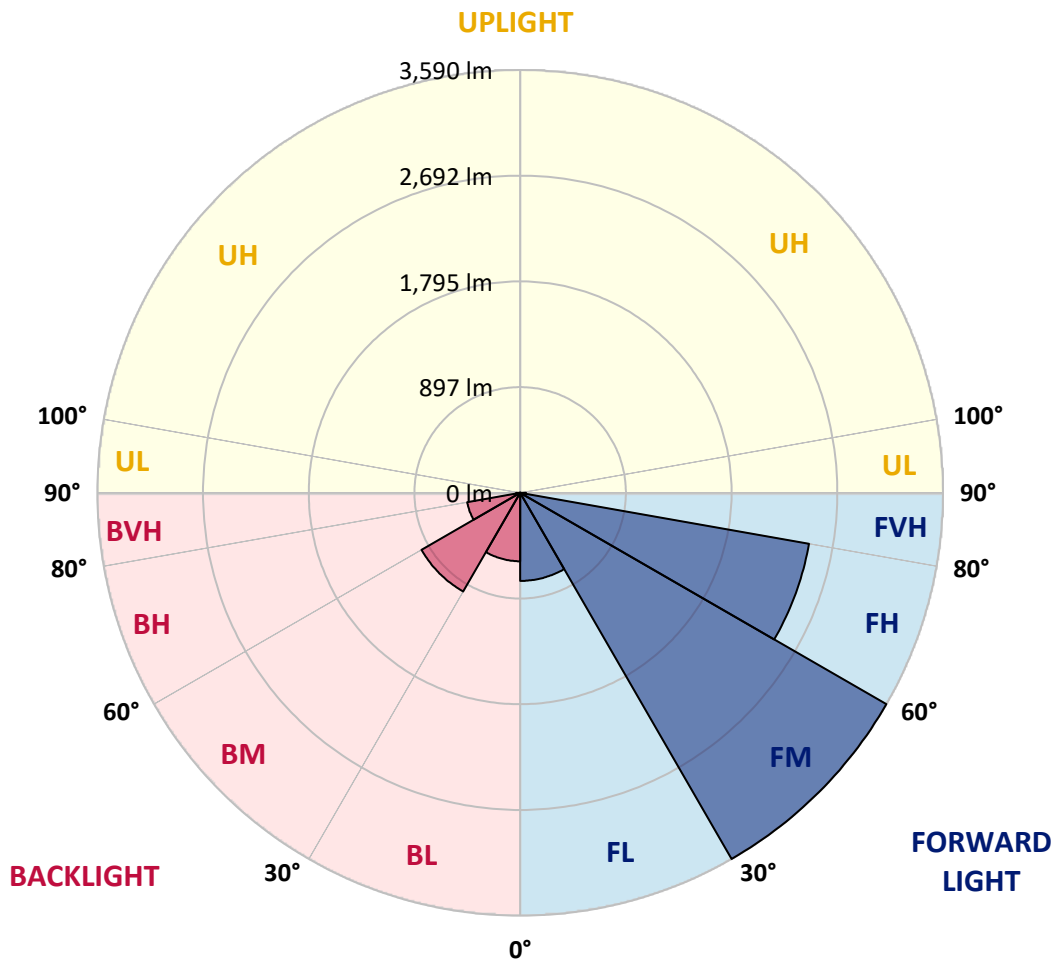
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	747.8	8.4			
FM (30°-60°)	3590.0	40.3			
FH (60°-80°)	2490.1	27.9			G2/5000
FVH (80°-90°)	49.5	0.6			G1/100
BL (0°-30°)	581.3	6.5	B2/1000		
BM (30°-60°)	967.7	10.9	B1/1000		
BH (60°-80°)	456.4	5.1	B1/500		G1/500
BVH (80°-90°)	33.2	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°	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8
2.5°	1356.6	1350.8	1343.1	1345.9	1340.2	1349.8	1345.9	1344.0	1344.0	1345.0	1349.8
5°	1387.5	1381.7	1375.9	1374.9	1363.3	1367.2	1361.4	1355.6	1355.6	1354.6	1356.6
7.5°	1441.5	1433.8	1427.1	1426.1	1411.6	1409.7	1392.3	1380.7	1380.7	1379.7	1382.6
10°	1513.0	1510.1	1496.6	1487.9	1470.5	1458.9	1437.7	1419.3	1415.5	1409.7	1417.4
12.5°	1581.5	1580.6	1568.0	1558.4	1534.2	1513.9	1479.2	1454.1	1449.3	1442.5	1448.3
15°	1667.5	1658.8	1645.3	1639.5	1604.7	1573.8	1534.2	1496.6	1491.7	1484.0	1488.8
17.5°	1762.1	1757.3	1736.0	1729.3	1685.8	1650.1	1600.8	1552.6	1544.8	1534.2	1533.3
20°	1876.0	1867.3	1850.9	1831.6	1789.1	1738.0	1681.0	1626.0	1619.2	1610.5	1592.2
22.5°	1998.6	1989.0	1972.6	1952.3	1898.2	1844.2	1772.7	1703.2	1699.3	1693.5	1659.7
25°	2115.5	2099.1	2101.0	2081.7	2033.4	1964.9	1880.9	1797.8	1795.9	1794.9	1740.8
27.5°	2240.0	2222.6	2216.9	2210.1	2164.7	2100.0	2005.4	1926.2	1919.5	1920.4	1838.4
30°	2356.9	2349.1	2344.3	2339.5	2317.3	2259.3	2168.6	2098.1	2119.3	2117.4	2004.4
32.5°	2447.6	2441.8	2462.1	2485.3	2479.5	2431.2	2368.4	2336.6	2357.8	2426.4	2327.9
35°	2527.8	2524.9	2563.5	2612.7	2647.5	2612.7	2606.0	2655.2	2704.4	2818.4	2761.4
37.5°	2614.7	2610.8	2643.6	2727.6	2788.4	2799.1	2850.2	2976.7	3024.0	3138.0	3018.2
40°	2613.7	2618.5	2697.7	2804.9	2915.9	3005.7	3110.9	3233.6	3294.4	3348.5	3163.1
42.5°	2571.2	2574.1	2673.6	2877.3	3038.5	3215.2	3308.9	3466.3	3507.8	3518.4	3334.0
45°	2527.8	2529.7	2637.8	2866.7	3140.9	3411.2	3515.5	3659.4	3691.2	3654.5	3449.8
47.5°	2465.0	2477.5	2594.4	2856.0	3228.7	3591.8	3675.8	3818.7	3831.2	3784.9	3546.4
50°	2390.7	2397.4	2531.6	2821.3	3286.7	3703.8	3803.2	3932.6	3956.7	3904.6	3666.1
52.5°	2299.9	2305.7	2451.5	2774.9	3318.5	3789.7	3900.7	4055.2	4088.1	4064.9	3771.4
55°	2195.6	2198.5	2347.2	2699.6	3309.8	3827.4	3985.7	4229.0	4284.1	4227.1	3859.2
57.5°	2065.3	2075.9	2244.9	2586.7	3244.2	3874.7	4139.2	4443.4	4513.8	4392.2	3924.9
60°	1931.1	1941.7	2095.2	2455.3	3134.1	3895.9	4297.6	4674.1	4735.9	4548.6	3965.4
62.5°	1780.4	1794.9	1922.4	2257.4	2937.1	3867.9	4414.4	4875.9	4910.7	4642.3	3954.8
65°	1561.3	1569.0	1708.0	2018.9	2680.3	3722.1	4409.6	4984.1	4995.6	4745.6	3908.5
67.5°	1317.9	1318.9	1450.2	1731.2	2326.9	3449.8	4342.0	5054.5	5111.5	4821.9	3807.1
70°	1002.2	1015.7	1118.1	1326.6	1902.1	2984.5	4118.9	4985.0	4958.0	4613.3	3516.5
72.5°	715.5	707.7	759.9	900.8	1331.5	2302.8	3551.2	4504.2	4510.0	4202.0	3059.8
75°	380.4	382.3	426.8	545.5	679.7	1498.5	2840.6	3805.2	3839.9	3603.4	2394.5
77.5°	85.0	96.6	146.8	208.6	295.5	479.9	1541.0	2495.9	2561.5	2371.3	1312.2
80°	65.7	66.6	96.6	118.8	130.3	229.8	489.5	905.7	1005.1	949.1	493.4
82.5°	43.4	44.4	63.7	65.7	62.8	105.2	222.1	271.3	298.3	260.7	183.5
85°	23.2	24.1	29.0	31.9	25.1	30.9	29.0	23.2	24.1	21.2	21.2
87.5°	4.8	2.9	3.9	2.9	2.9	1.9	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°	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8	1348.8
2.5°	1349.8	1351.7	1356.6	1364.3	1368.2	1376.8	1382.6	1397.1	1417.4	1410.6	1401.9
5°	1357.5	1363.3	1379.7	1400.0	1415.5	1438.6	1450.2	1478.2	1501.4	1499.5	1484.0
7.5°	1386.5	1399.1	1419.3	1449.3	1475.3	1498.5	1514.9	1544.8	1566.1	1557.4	1542.9
10°	1423.2	1435.7	1457.9	1485.0	1504.3	1529.4	1540.0	1564.2	1577.7	1567.1	1554.5
12.5°	1457.0	1463.7	1479.2	1499.5	1510.1	1526.5	1531.3	1548.7	1561.3	1556.4	1541.0
15°	1489.8	1488.8	1491.7	1497.5	1501.4	1505.3	1506.2	1518.8	1527.5	1517.8	1507.2
17.5°	1526.5	1516.8	1504.3	1494.6	1480.2	1473.4	1460.8	1466.6	1465.7	1457.9	1449.3
20°	1572.8	1555.5	1516.8	1486.9	1449.3	1419.3	1393.3	1388.4	1388.4	1367.2	1366.2
22.5°	1627.9	1598.9	1534.2	1468.6	1407.7	1360.4	1312.2	1284.2	1263.9	1248.4	1241.7
25°	1699.3	1646.2	1549.7	1443.5	1353.7	1267.7	1195.3	1156.7	1118.1	1093.0	1089.1
27.5°	1775.6	1717.7	1559.3	1421.3	1279.3	1161.5	1061.1	981.9	946.2	929.8	914.4
30°	1900.2	1797.8	1576.7	1373.9	1185.7	1031.2	897.9	805.3	770.5	758.9	749.3
32.5°	2202.4	2005.4	1593.1	1325.7	1085.3	887.3	711.6	633.4	603.5	615.0	618.9
35°	2580.9	2314.4	1671.3	1269.7	981.0	724.1	547.5	495.3	497.2	514.6	520.4
37.5°	2837.7	2586.7	1830.6	1199.2	831.3	536.8	423.9	407.5	421.9	437.4	440.3
40°	2988.3	2711.2	1942.6	1112.3	654.6	401.7	318.6	307.0	337.9	372.7	393.9
42.5°	3148.6	2817.4	2000.6	999.3	459.6	290.6	244.3	253.0	302.2	332.1	345.7
45°	3234.5	2900.5	1974.5	838.1	312.8	225.9	219.2	243.3	292.6	319.6	323.5
47.5°	3327.2	2983.5	1911.7	670.1	239.5	214.3	215.3	244.3	294.5	323.5	323.5
50°	3407.4	3052.0	1799.7	525.2	227.9	206.6	216.3	249.1	297.4	322.5	321.5
52.5°	3500.0	3082.9	1640.4	424.8	216.3	199.9	217.2	253.0	292.6	307.0	305.1
55°	3529.0	3060.7	1564.2	355.3	207.6	196.0	221.1	258.8	290.6	293.5	288.7
57.5°	3529.0	3000.9	1477.3	303.2	199.9	196.0	223.0	257.8	301.2	319.6	317.7
60°	3513.6	2938.1	1344.0	271.3	189.2	194.1	224.0	272.3	358.2	378.5	377.5
62.5°	3464.3	2836.7	1179.9	239.5	178.6	195.0	221.1	292.6	409.4	400.7	379.5
65°	3347.5	2645.6	956.8	210.5	167.0	195.0	217.2	321.5	364.0	347.6	339.9
67.5°	3127.3	2405.1	711.6	180.6	153.5	182.5	211.5	301.2	309.0	290.6	279.0
70°	2836.7	2037.3	456.7	152.6	139.0	171.9	207.6	282.9	298.3	276.1	261.7
72.5°	2363.6	1618.2	264.6	124.6	117.8	158.3	199.9	274.2	293.5	263.6	243.3
75°	1667.5	1021.5	173.8	91.7	94.6	135.2	185.4	256.8	275.2	238.5	209.5
77.5°	849.7	383.3	123.6	67.6	63.7	103.3	160.3	236.6	271.3	240.4	205.7
80°	300.3	193.1	81.1	44.4	41.5	63.7	122.6	200.8	254.9	234.6	227.9
82.5°	128.4	96.6	44.4	28.0	25.1	31.9	69.5	158.3	224.0	212.4	256.8
85°	18.3	16.4	12.6	10.6	10.6	14.5	22.2	78.2	151.6	172.8	209.5
87.5°	2.9	2.9	2.9	1.9	1.9	1.9	1.0	11.6	50.2	75.3	104.3
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)