

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: P509361

Luminaire Tested: **VERD-CA2-80-730-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-730-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1100mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11472 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

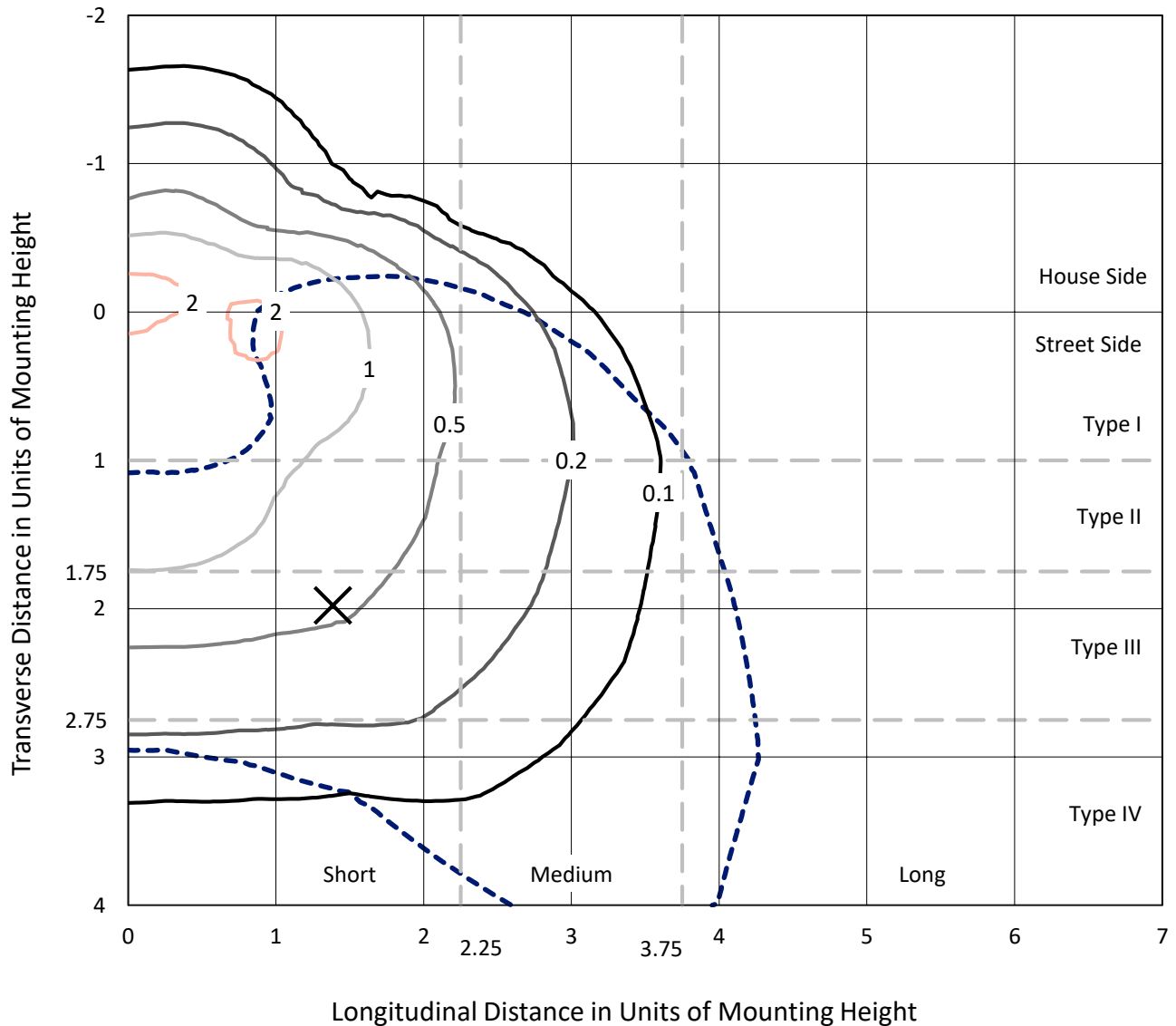
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

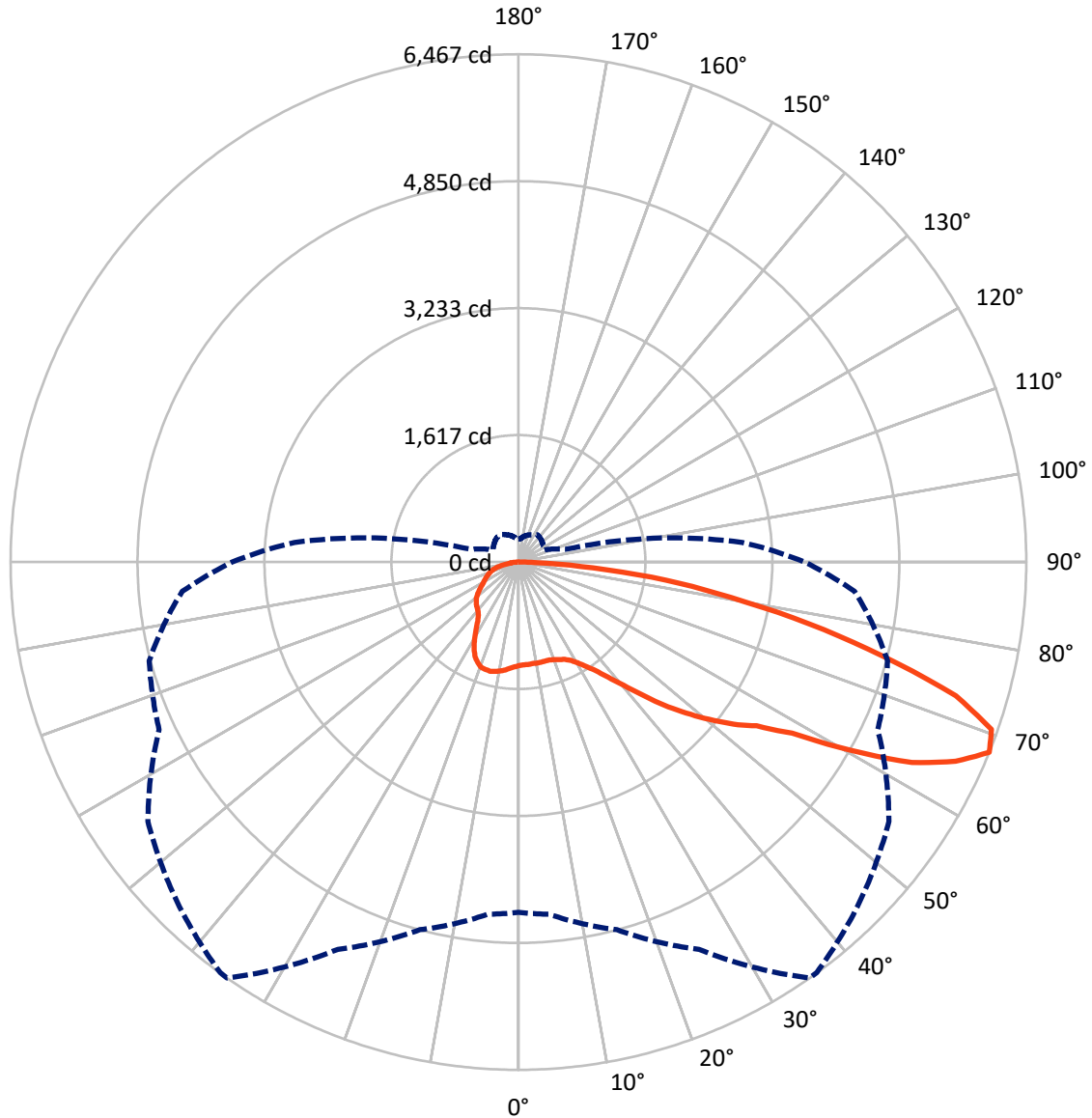
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2613.6	0.0	2613.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8858.4	0.0	8858.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	11472.0	0.0	11472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	1.1
10°-20°	391.3	3.4
20°-30°	653.1	5.7
30°-40°	1004.9	8.8
40°-50°	1656.0	14.4
50°-60°	2365.3	20.6
60°-70°	2944.9	25.7
70°-80°	1987.3	17.3
80°-90°	341.6	3.0
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°	11472.0	100.0
0°-180°	11472.0	100.0

Coefficient of Utilization



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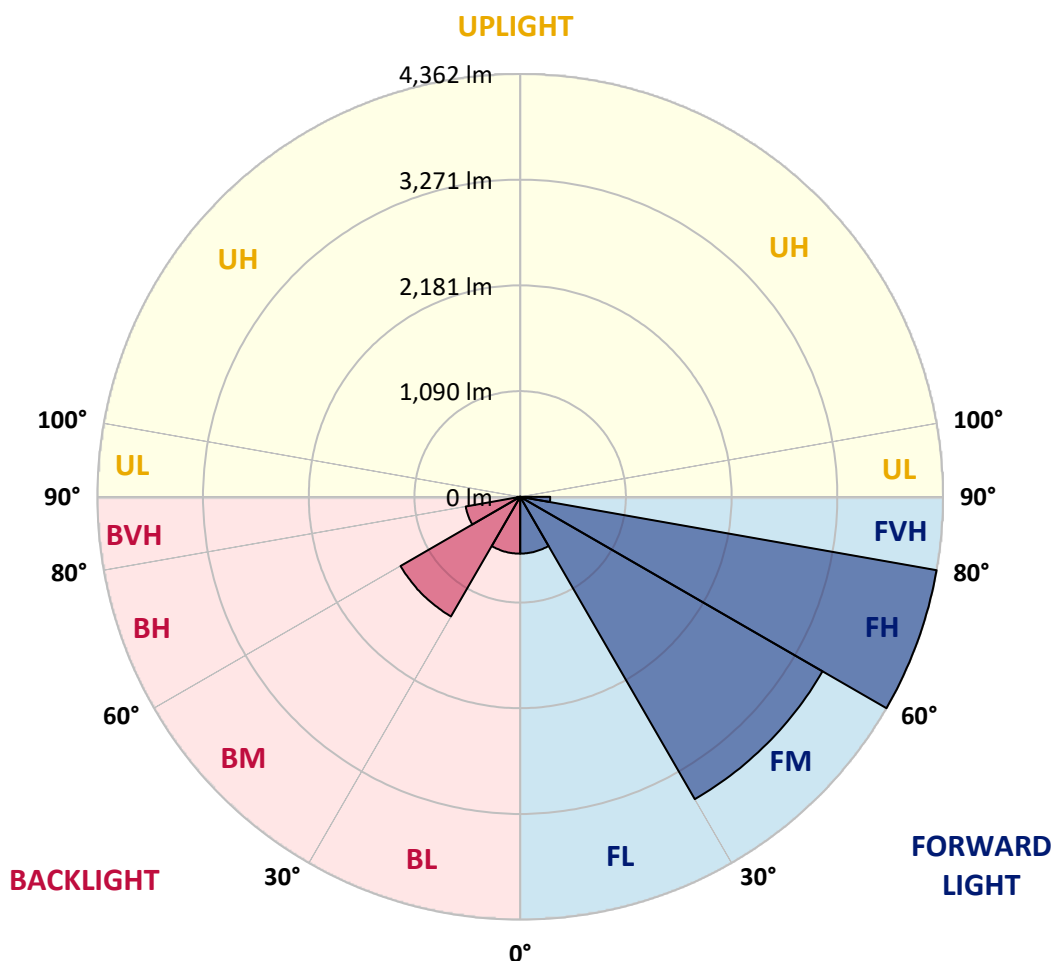
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	585.4	5.1			
FM	(30°-60°)	3601.2	31.4			
FH	(60°-80°)	4361.7	38.0			G2/5000
FVH	(80°-90°)	310.1	2.7			G3/500
BL	(0°-30°)	586.6	5.1	B2/1000		
BM	(30°-60°)	1424.9	12.4	B2/2500		
BH	(60°-80°)	570.5	5.0	B2/1000		G2/1000
BVH	(80°-90°)	31.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3
2.5°	1299.7	1312.1	1310.9	1308.4	1309.6	1310.9	1304.7	1301.0	1305.9	1307.1	1313.3
5°	1298.5	1308.4	1307.1	1307.1	1310.9	1309.6	1299.7	1292.3	1301.0	1307.1	1313.3
7.5°	1297.3	1305.9	1305.9	1302.2	1304.7	1304.7	1299.7	1304.7	1304.7	1314.6	1322.0
10°	1296.0	1303.4	1303.4	1304.7	1308.4	1309.6	1309.6	1313.3	1326.9	1330.6	1345.5
12.5°	1281.2	1287.4	1292.3	1299.7	1307.1	1309.6	1315.8	1326.9	1344.2	1352.9	1370.2
15°	1268.8	1277.5	1286.1	1293.5	1304.7	1307.1	1320.8	1339.3	1357.9	1376.4	1402.4
17.5°	1273.8	1284.9	1294.8	1301.0	1309.6	1312.1	1325.7	1350.4	1380.1	1407.3	1443.2
20°	1284.9	1297.3	1307.1	1314.6	1325.7	1328.2	1339.3	1362.8	1401.1	1443.2	1484.0
22.5°	1312.1	1320.8	1331.9	1335.6	1348.0	1350.4	1357.9	1381.3	1430.8	1484.0	1535.9
25°	1336.8	1346.7	1355.4	1359.1	1372.7	1375.2	1388.8	1408.6	1466.7	1527.3	1602.7
27.5°	1369.0	1378.9	1390.0	1393.7	1417.2	1419.7	1425.9	1455.5	1513.7	1584.2	1678.1
30°	1430.8	1437.0	1449.4	1464.2	1487.7	1490.2	1503.8	1534.7	1576.7	1663.3	1788.2
32.5°	1524.8	1533.5	1528.5	1548.3	1582.9	1582.9	1629.9	1681.9	1733.8	1794.4	1960.1
35°	1705.4	1700.4	1695.5	1678.1	1699.2	1706.6	1772.1	1859.9	2004.6	2175.3	2338.5
37.5°	1929.2	1928.0	1902.0	1862.4	1861.2	1863.6	1923.0	2071.4	2301.4	2681.1	2856.7
40°	2273.0	2282.9	2191.4	2109.7	2064.0	2054.1	2101.1	2287.8	2597.0	3102.8	3222.7
42.5°	2616.8	2595.7	2521.6	2389.2	2312.6	2306.4	2315.0	2478.3	2883.9	3444.1	3487.4
45°	2921.0	2937.1	2820.8	2740.4	2599.5	2601.9	2563.6	2713.2	3168.3	3685.2	3692.7
47.5°	3231.4	3243.8	3099.1	3007.6	2872.8	2872.8	2812.2	2930.9	3421.8	3915.3	3900.4
50°	3562.8	3591.3	3409.5	3271.0	3147.3	3142.4	3123.8	3198.0	3671.6	4109.4	4050.1
52.5°	4010.5	3912.8	3740.9	3552.9	3430.5	3415.7	3398.3	3451.5	3958.5	4267.7	4146.5
55°	4473.0	4340.7	4165.1	3912.8	3681.5	3702.6	3659.3	3719.9	4222.0	4456.9	4272.7
57.5°	4753.7	4803.2	4708.0	4491.6	4110.7	4106.9	3943.7	3975.9	4458.2	4616.5	4406.2
60°	5049.3	5118.5	5182.8	5054.2	4873.7	4792.1	4372.8	4247.9	4724.0	4732.7	4391.4
62.5°	5203.9	5190.3	5469.7	5484.6	5624.3	5634.2	5224.9	4600.4	4881.1	4830.4	4443.3
65°	4928.1	4935.5	5395.5	5635.5	6116.5	6145.0	5995.3	5219.9	5013.4	4876.2	4384.0
67.5°	4460.6	4502.7	4847.7	5441.3	6466.5	6461.5	6137.5	5759.1	5048.0	4866.3	4297.4
70°	3648.1	3692.7	4046.4	4908.3	6389.8	6349.0	6076.9	5802.4	5018.4	4777.2	3865.8
72.5°	2798.6	2792.4	3158.4	3920.2	5825.9	5865.5	5766.5	5497.0	4876.2	4396.3	3167.1
75°	1972.5	1941.6	2266.8	2971.7	4804.4	4950.4	5288.0	5213.8	4338.2	3618.5	2117.2
77.5°	1294.8	1341.8	1601.5	2197.5	3778.0	3900.4	4366.6	4219.5	3210.4	2308.8	764.3
80°	822.4	864.4	1074.7	1569.3	2746.6	2802.3	3183.2	2683.6	1715.2	761.8	106.4
82.5°	499.6	505.8	692.5	1061.1	1894.6	1894.6	2004.6	1500.1	671.5	98.9	69.3
85°	265.9	280.7	373.5	572.6	954.7	1026.4	908.9	572.6	129.8	54.4	42.0
87.5°	84.1	85.3	122.4	221.4	205.3	211.5	70.5	29.7	14.8	9.9	8.7
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°	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3	1318.3
2.5°	1315.8	1317.0	1324.5	1328.2	1329.4	1325.7	1334.4	1346.7	1343.0	1356.6	1351.7
5°	1315.8	1322.0	1331.9	1330.6	1340.5	1345.5	1355.4	1367.7	1364.0	1383.8	1376.4
7.5°	1325.7	1335.6	1343.0	1357.9	1365.3	1362.8	1385.1	1395.0	1390.0	1404.8	1397.4
10°	1350.4	1361.6	1371.5	1387.5	1398.7	1393.7	1406.1	1412.3	1403.6	1418.4	1414.7
12.5°	1378.9	1391.2	1411.0	1422.2	1430.8	1422.2	1422.2	1418.4	1406.1	1419.7	1411.0
15°	1411.0	1427.1	1454.3	1466.7	1464.2	1449.4	1435.8	1409.8	1376.4	1382.6	1370.2
17.5°	1454.3	1474.1	1505.0	1512.4	1502.5	1466.7	1430.8	1383.8	1324.5	1309.6	1299.7
20°	1501.3	1523.6	1566.8	1563.1	1540.9	1477.8	1420.9	1348.0	1255.2	1213.2	1193.4
22.5°	1565.6	1587.9	1628.7	1606.4	1560.7	1477.8	1381.3	1279.9	1169.9	1108.0	1094.4
25°	1636.1	1667.0	1684.3	1634.9	1555.7	1444.4	1328.2	1194.6	1053.6	986.9	973.3
27.5°	1722.7	1743.7	1726.4	1638.6	1531.0	1388.8	1241.6	1080.8	946.0	889.2	869.4
30°	1824.1	1826.5	1758.5	1631.2	1475.3	1309.6	1135.3	965.8	862.0	808.8	796.4
32.5°	1958.9	1934.1	1787.0	1596.5	1399.9	1200.8	1016.5	889.2	802.6	735.8	718.5
35°	2310.1	2197.5	1850.0	1557.0	1308.4	1079.6	913.9	819.9	746.9	671.5	657.9
37.5°	2765.2	2566.1	1961.3	1516.1	1204.5	968.3	845.9	779.1	717.3	633.2	614.6
40°	3106.5	2876.5	2133.2	1471.6	1109.3	889.2	808.8	763.0	695.0	618.3	598.5
42.5°	3367.4	3134.9	2310.1	1422.2	1020.2	827.3	782.8	751.9	686.3	614.6	598.5
45°	3548.0	3315.5	2462.2	1364.0	906.5	774.1	763.0	733.3	670.3	601.0	584.9
47.5°	3731.0	3442.9	2547.5	1303.4	811.2	744.5	734.6	701.2	643.1	577.5	565.2
50°	3890.5	3587.6	2620.5	1241.6	735.8	708.6	702.4	657.9	602.3	540.4	524.3
52.5°	3936.3	3622.2	2590.8	1237.9	667.8	670.3	657.9	622.0	570.1	503.3	487.2
55°	4040.2	3718.6	2519.1	1124.1	602.3	610.9	608.4	589.9	541.7	479.8	467.5
57.5°	4084.7	3645.7	2415.2	836.0	534.2	541.7	562.7	562.7	520.6	465.0	453.9
60°	4078.5	3648.1	2229.7	584.9	467.5	487.2	516.9	516.9	483.5	429.1	415.5
62.5°	4031.5	3554.2	1921.8	446.4	425.4	453.9	488.5	466.2	436.5	375.9	366.1
65°	3953.6	3295.7	1331.9	392.0	401.9	435.3	452.6	425.4	389.5	335.1	329.0
67.5°	3642.0	2862.9	619.6	358.6	382.1	408.1	422.9	384.6	347.5	298.0	290.6
70°	3100.3	2094.9	267.1	332.7	358.6	377.2	392.0	352.4	312.9	269.6	267.1
72.5°	2254.4	1117.9	222.6	291.9	319.1	338.8	357.4	317.8	279.5	228.8	228.8
75°	1085.8	185.5	191.7	242.4	267.1	306.7	315.3	259.7	216.4	174.4	170.7
77.5°	133.6	120.0	165.7	192.9	213.9	235.0	256.0	225.1	186.7	143.5	136.0
80°	84.1	84.1	131.1	134.8	145.9	168.2	188.0	175.6	147.2	82.9	76.7
82.5°	61.8	66.8	86.6	64.3	76.7	96.5	110.1	124.9	106.4	58.1	54.4
85°	39.6	43.3	40.8	32.2	42.0	64.3	87.8	86.6	71.7	43.3	40.8
87.5°	8.7	8.7	8.7	7.4	8.7	11.1	21.0	40.8	29.7	23.5	22.3
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)