

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: P509377

Luminaire Tested: **VERD-CA2-80-750-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509377
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-CA2-80-750-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1100mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11898 lumens
Efficiency: N/A
Efficacy: 144.4 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

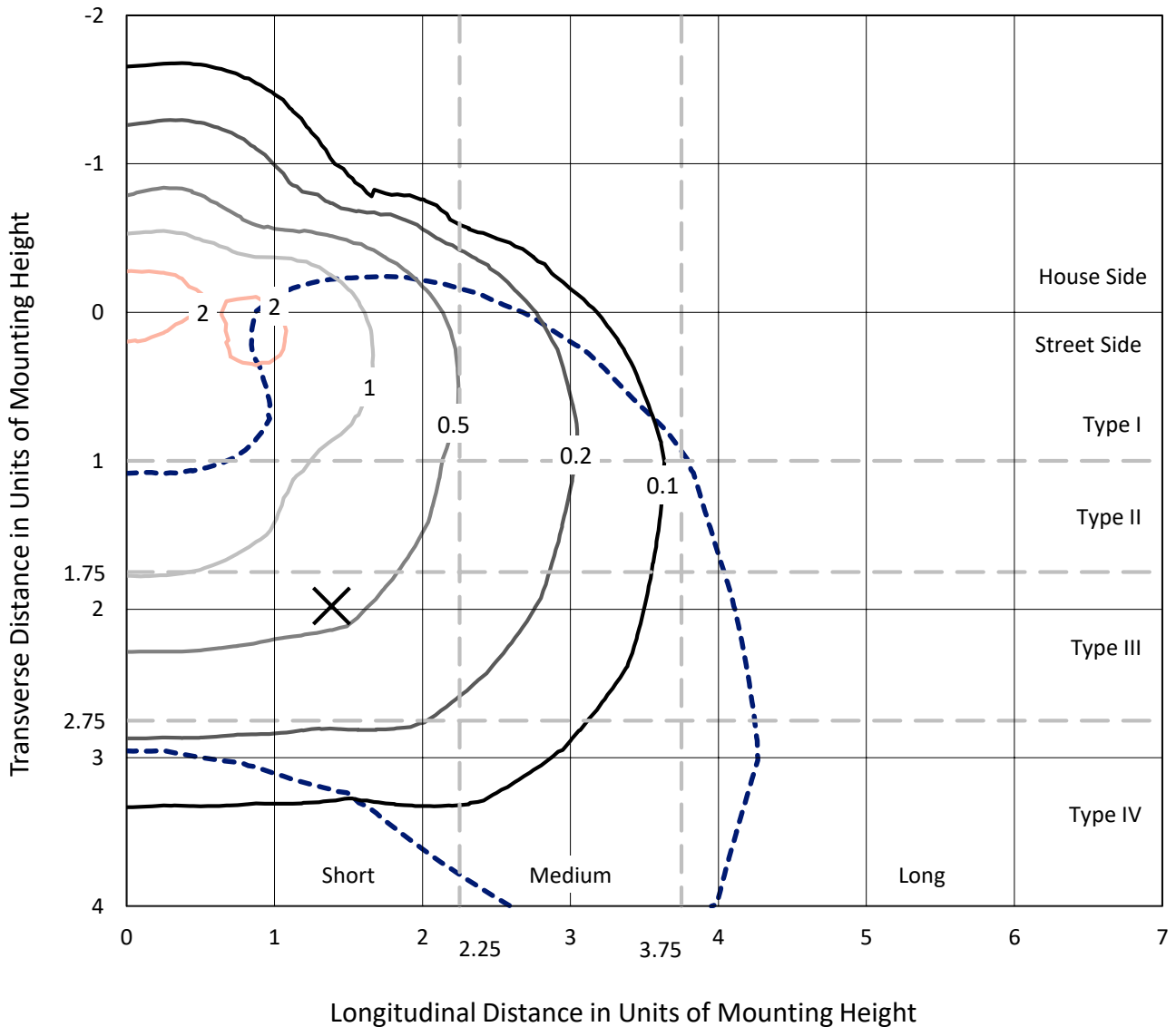
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

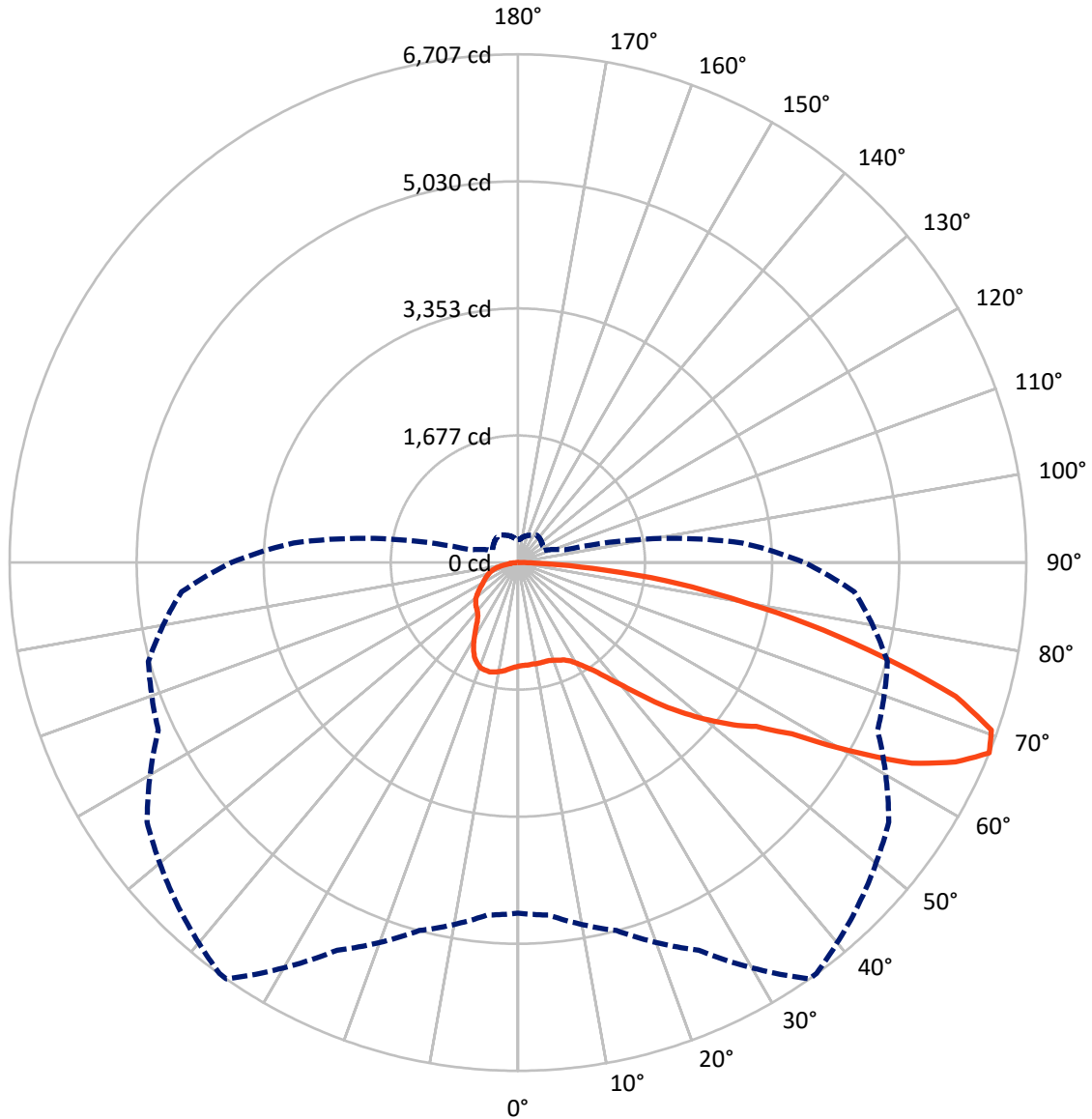
× Max cd
 - - - 1/2 Max cd



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	2710.6	0.0	2710.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	9187.4	0.0	9187.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	11898.0	0.0	11898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	1.1
10°-20°	405.9	3.4
20°-30°	677.4	5.7
30°-40°	1042.2	8.8
40°-50°	1717.5	14.4
50°-60°	2453.1	20.6
60°-70°	3054.3	25.7
70°-80°	2061.1	17.3
80°-90°	354.3	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°	11898.0	100.0
0°-180°	11898.0	100.0

Coefficient of Utilization



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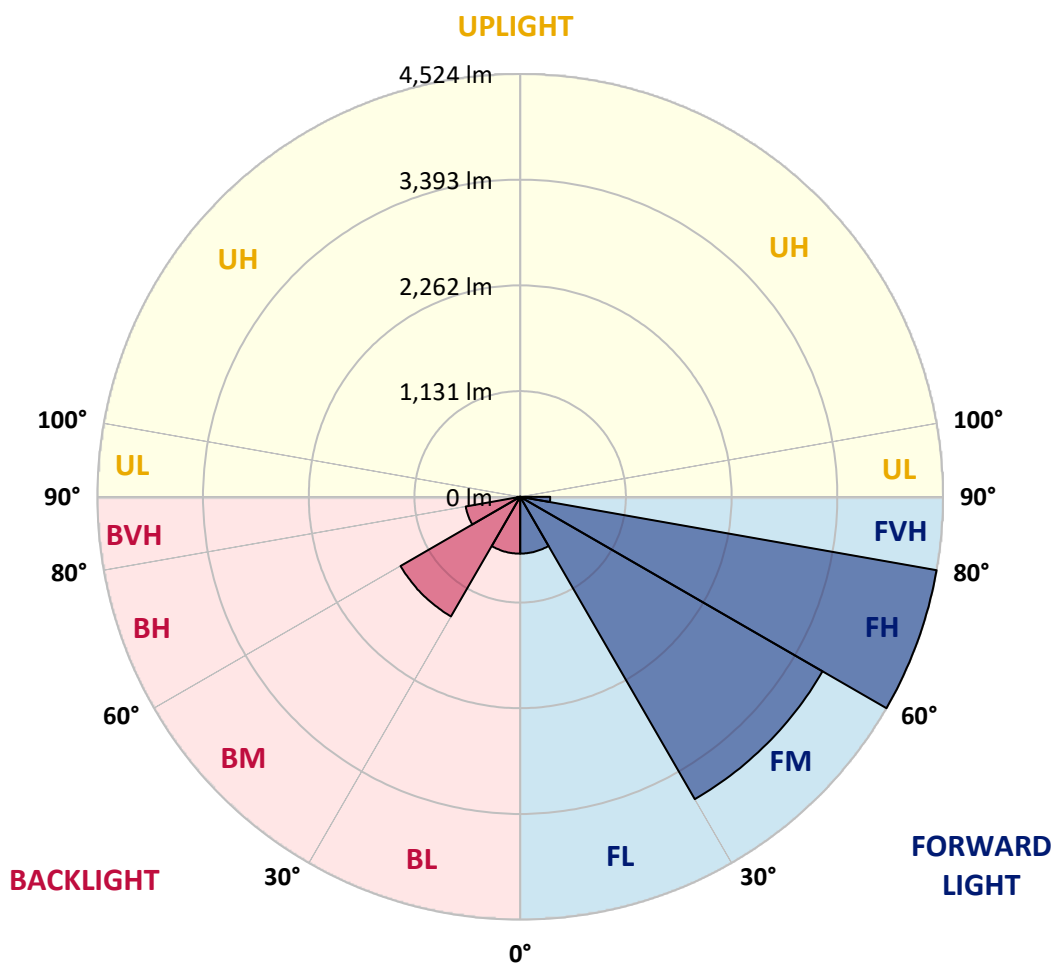
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.2	5.1			
FM (30°-60°)	3734.9	31.4			
FH (60°-80°)	4523.7	38.0			G2/5000
FVH (80°-90°)	321.6	2.7			G3/500
BL (0°-30°)	608.4	5.1	B2/1000		
BM (30°-60°)	1477.9	12.4	B2/2500		
BH (60°-80°)	591.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	32.7	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°	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2
2.5°	1348.0	1360.8	1359.5	1357.0	1358.3	1359.5	1353.1	1349.3	1354.4	1355.7	1362.1
5°	1346.7	1357.0	1355.7	1355.7	1359.5	1358.3	1348.0	1340.3	1349.3	1355.7	1362.1
7.5°	1345.4	1354.4	1354.4	1350.6	1353.1	1353.1	1348.0	1353.1	1353.1	1363.4	1371.1
10°	1344.1	1351.8	1351.8	1353.1	1357.0	1358.3	1358.3	1362.1	1376.2	1380.1	1395.4
12.5°	1328.8	1335.2	1340.3	1348.0	1355.7	1358.3	1364.7	1376.2	1394.2	1403.1	1421.1
15°	1315.9	1324.9	1333.9	1341.6	1353.1	1355.7	1369.8	1389.0	1408.3	1427.5	1454.4
17.5°	1321.1	1332.6	1342.9	1349.3	1358.3	1360.8	1374.9	1400.6	1431.4	1459.6	1496.8
20°	1332.6	1345.4	1355.7	1363.4	1374.9	1377.5	1389.0	1413.4	1453.2	1496.8	1539.1
22.5°	1360.8	1369.8	1381.3	1385.2	1398.0	1400.6	1408.3	1432.6	1483.9	1539.1	1593.0
25°	1386.5	1396.7	1405.7	1409.6	1423.7	1426.2	1440.3	1460.9	1521.1	1584.0	1662.2
27.5°	1419.8	1430.1	1441.6	1445.5	1469.8	1472.4	1478.8	1509.6	1569.9	1643.0	1740.5
30°	1483.9	1490.4	1503.2	1518.6	1542.9	1545.5	1559.6	1591.7	1635.3	1725.1	1854.6
32.5°	1581.4	1590.4	1585.3	1605.8	1641.7	1641.7	1690.4	1744.3	1798.2	1861.0	2032.9
35°	1768.7	1763.6	1758.4	1740.5	1762.3	1770.0	1837.9	1929.0	2079.1	2256.1	2425.4
37.5°	2000.8	1999.5	1972.6	1931.6	1930.3	1932.9	1994.4	2148.3	2386.9	2780.6	2962.8
40°	2357.4	2367.6	2272.7	2188.1	2140.6	2130.4	2179.1	2372.8	2693.4	3218.0	3342.4
42.5°	2713.9	2692.1	2615.2	2477.9	2398.4	2392.0	2401.0	2570.3	2991.0	3572.0	3616.9
45°	3029.5	3046.1	2925.6	2842.2	2696.0	2698.6	2658.8	2814.0	3286.0	3822.1	3829.8
47.5°	3351.4	3364.2	3214.2	3119.2	2979.4	2979.4	2916.6	3039.7	3548.9	4060.7	4045.3
50°	3695.1	3724.6	3536.1	3392.4	3264.2	3259.0	3239.8	3316.8	3808.0	4262.0	4200.5
52.5°	4159.4	4058.1	3879.8	3684.9	3557.9	3542.5	3524.5	3579.7	4105.5	4426.2	4300.5
55°	4639.1	4501.9	4319.7	4058.1	3818.2	3840.1	3795.2	3858.0	4378.7	4622.4	4431.3
57.5°	4930.2	4981.5	4882.8	4658.3	4263.3	4259.5	4090.2	4123.5	4623.7	4787.9	4569.8
60°	5236.8	5308.6	5375.3	5241.9	5054.7	4970.0	4535.2	4405.7	4899.5	4908.4	4554.4
62.5°	5397.1	5383.0	5672.9	5688.3	5833.2	5843.4	5418.9	4771.2	5062.4	5009.8	4608.3
65°	5111.1	5118.8	5595.9	5844.7	6343.7	6373.2	6218.0	5413.8	5199.6	5057.2	4546.8
67.5°	4626.3	4669.9	5027.7	5643.4	6706.6	6701.5	6365.5	5973.0	5235.5	5047.0	4457.0
70°	3783.6	3829.8	4196.6	5090.6	6627.1	6584.8	6302.6	6017.9	5204.7	4954.6	4009.4
72.5°	2902.5	2896.1	3275.7	4065.8	6042.2	6083.3	5980.7	5701.1	5057.2	4559.6	3284.7
75°	2045.7	2013.7	2351.0	3082.0	4982.8	5134.2	5484.3	5407.4	4499.3	3752.8	2195.8
77.5°	1342.9	1391.6	1660.9	2279.1	3918.3	4045.3	4528.8	4376.2	3329.6	2394.6	792.6
80°	852.9	896.5	1114.6	1627.6	2848.6	2906.3	3301.4	2783.2	1778.9	790.1	110.3
82.5°	518.2	524.6	718.2	1100.5	1964.9	1964.9	2079.1	1555.8	696.4	102.6	71.8
85°	275.8	291.1	387.3	593.8	990.2	1064.5	942.7	593.8	134.7	56.4	43.6
87.5°	87.2	88.5	127.0	229.6	212.9	219.3	73.1	30.8	15.4	10.3	9.0
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°	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2	1367.2
2.5°	1364.7	1366.0	1373.6	1377.5	1378.8	1374.9	1383.9	1396.7	1392.9	1407.0	1401.9
5°	1364.7	1371.1	1381.3	1380.1	1390.3	1395.4	1405.7	1418.5	1414.7	1435.2	1427.5
7.5°	1374.9	1385.2	1392.9	1408.3	1416.0	1413.4	1436.5	1446.8	1441.6	1457.0	1449.3
10°	1400.6	1412.1	1422.4	1439.1	1450.6	1445.5	1458.3	1464.7	1455.7	1471.1	1467.3
12.5°	1430.1	1442.9	1463.4	1475.0	1483.9	1475.0	1475.0	1471.1	1458.3	1472.4	1463.4
15°	1463.4	1480.1	1508.3	1521.1	1518.6	1503.2	1489.1	1462.1	1427.5	1433.9	1421.1
17.5°	1508.3	1528.8	1560.9	1568.6	1558.3	1521.1	1483.9	1435.2	1373.6	1358.3	1348.0
20°	1557.1	1580.1	1625.0	1621.2	1598.1	1532.7	1473.7	1398.0	1301.8	1258.2	1237.7
22.5°	1623.7	1646.8	1689.2	1666.1	1618.6	1532.7	1432.6	1327.5	1213.3	1149.2	1135.1
25°	1696.9	1728.9	1746.9	1695.6	1613.5	1498.1	1377.5	1239.0	1092.8	1023.5	1009.4
27.5°	1786.6	1808.4	1790.5	1699.4	1587.8	1440.3	1287.7	1121.0	981.2	922.2	901.7
30°	1891.8	1894.4	1823.8	1691.7	1530.1	1358.3	1177.4	1001.7	894.0	838.8	826.0
32.5°	2031.6	2006.0	1853.3	1655.8	1451.9	1245.4	1054.3	922.2	832.4	763.1	745.2
35°	2395.9	2279.1	1918.7	1614.8	1357.0	1119.7	947.8	850.4	774.7	696.4	682.3
37.5°	2867.9	2661.4	2034.2	1572.4	1249.2	1004.3	877.3	808.0	743.9	656.7	637.4
40°	3221.8	2983.3	2212.5	1526.3	1150.5	922.2	838.8	791.4	720.8	641.3	620.8
42.5°	3492.5	3251.3	2395.9	1475.0	1058.1	858.0	811.9	779.8	711.8	637.4	620.8
45°	3679.7	3438.6	2553.6	1414.7	940.1	802.9	791.4	760.6	695.2	623.3	606.7
47.5°	3869.6	3570.7	2642.1	1351.8	841.4	772.1	761.9	727.2	666.9	599.0	586.1
50°	4035.0	3720.8	2717.8	1287.7	763.1	734.9	728.5	682.3	624.6	560.5	543.8
52.5°	4082.5	3756.7	2687.0	1283.9	692.6	695.2	682.3	645.1	591.3	522.0	505.3
55°	4190.2	3856.7	2612.6	1165.9	624.6	633.6	631.0	611.8	561.8	497.6	484.8
57.5°	4236.4	3781.1	2504.9	867.0	554.1	561.8	583.6	583.6	540.0	482.3	470.7
60°	4230.0	3783.6	2312.5	606.7	484.8	505.3	536.1	536.1	501.5	445.1	430.9
62.5°	4181.2	3686.1	1993.1	463.0	441.2	470.7	506.6	483.5	452.8	389.9	379.6
65°	4100.4	3418.1	1381.3	406.6	416.8	451.5	469.4	441.2	404.0	347.6	341.2
67.5°	3777.2	2969.2	642.6	371.9	396.3	423.3	438.6	398.9	360.4	309.1	301.4
70°	3215.4	2172.7	277.0	345.0	371.9	391.2	406.6	365.5	324.5	279.6	277.0
72.5°	2338.1	1159.5	230.9	302.7	330.9	351.4	370.7	329.6	289.9	237.3	237.3
75°	1126.1	192.4	198.8	251.4	277.0	318.1	327.1	269.3	224.5	180.8	177.0
77.5°	138.5	124.4	171.9	200.1	221.9	243.7	265.5	233.4	193.7	148.8	141.1
80°	87.2	87.2	136.0	139.8	151.3	174.4	195.0	182.1	152.6	85.9	79.5
82.5°	64.1	69.3	89.8	66.7	79.5	100.0	114.1	129.5	110.3	60.3	56.4
85°	41.0	44.9	42.3	33.3	43.6	66.7	91.1	89.8	74.4	44.9	42.3
87.5°	9.0	9.0	9.0	7.7	9.0	11.5	21.8	42.3	30.8	24.4	23.1
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)