

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: P233580

Luminaire Tested: **VERD-C02H6-D-U-T4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H6-D-U-T4-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1250mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11143 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 98  
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

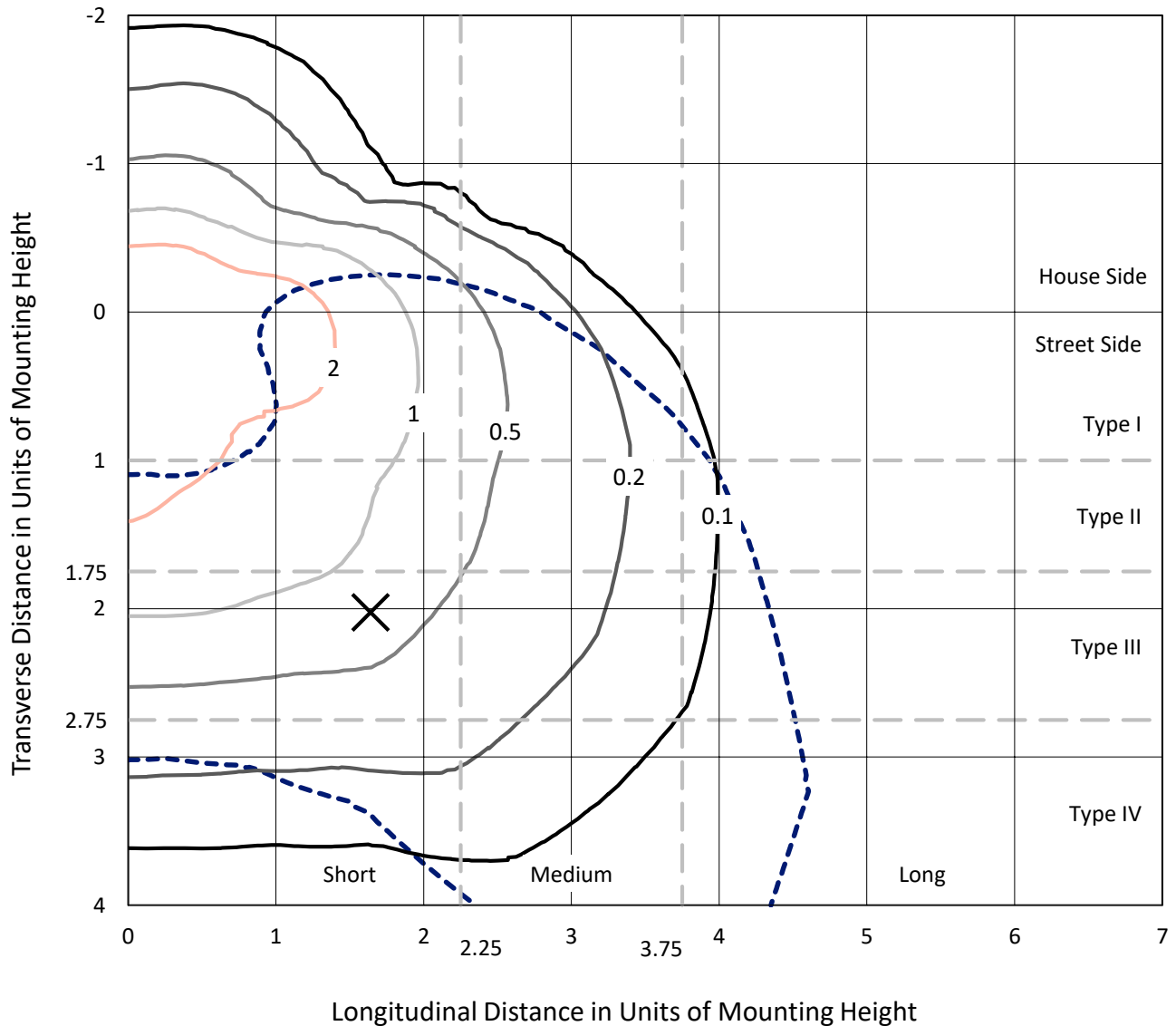


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### Iso-Footcandle Lines of Horizontal Illumination

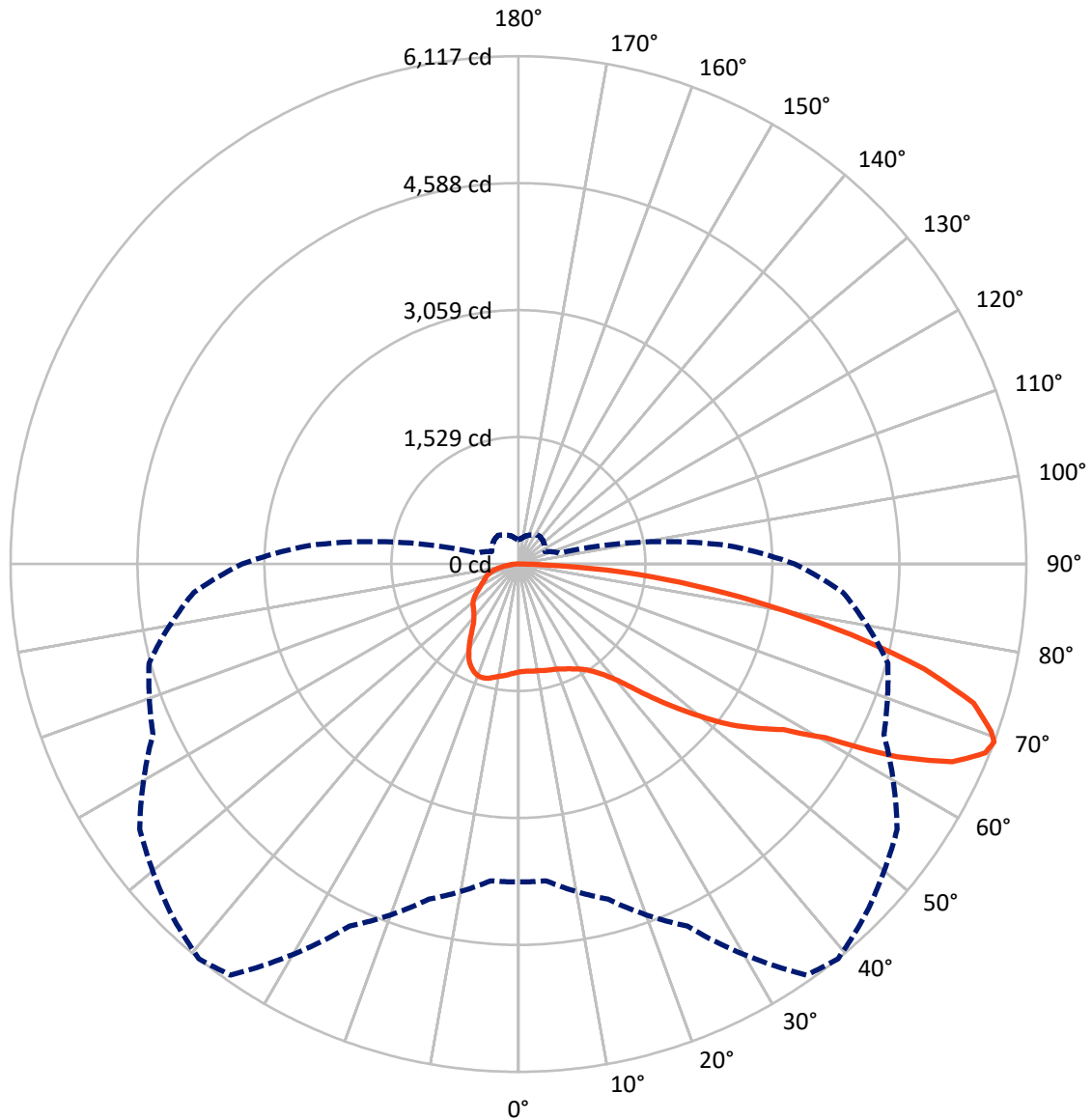
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2612.1	0.0	2612.1
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	8530.9	0.0	8530.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	11143.0	0.0	11143.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	1.1
10°-20°	389.9	3.5
20°-30°	656.3	5.9
30°-40°	950.8	8.5
40°-50°	1536.9	13.8
50°-60°	2250.0	20.2
60°-70°	2816.2	25.3
70°-80°	2013.2	18.1
80°-90°	403.6	3.6
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°	11143.0	100.0
0°-180°	11143.0	100.0



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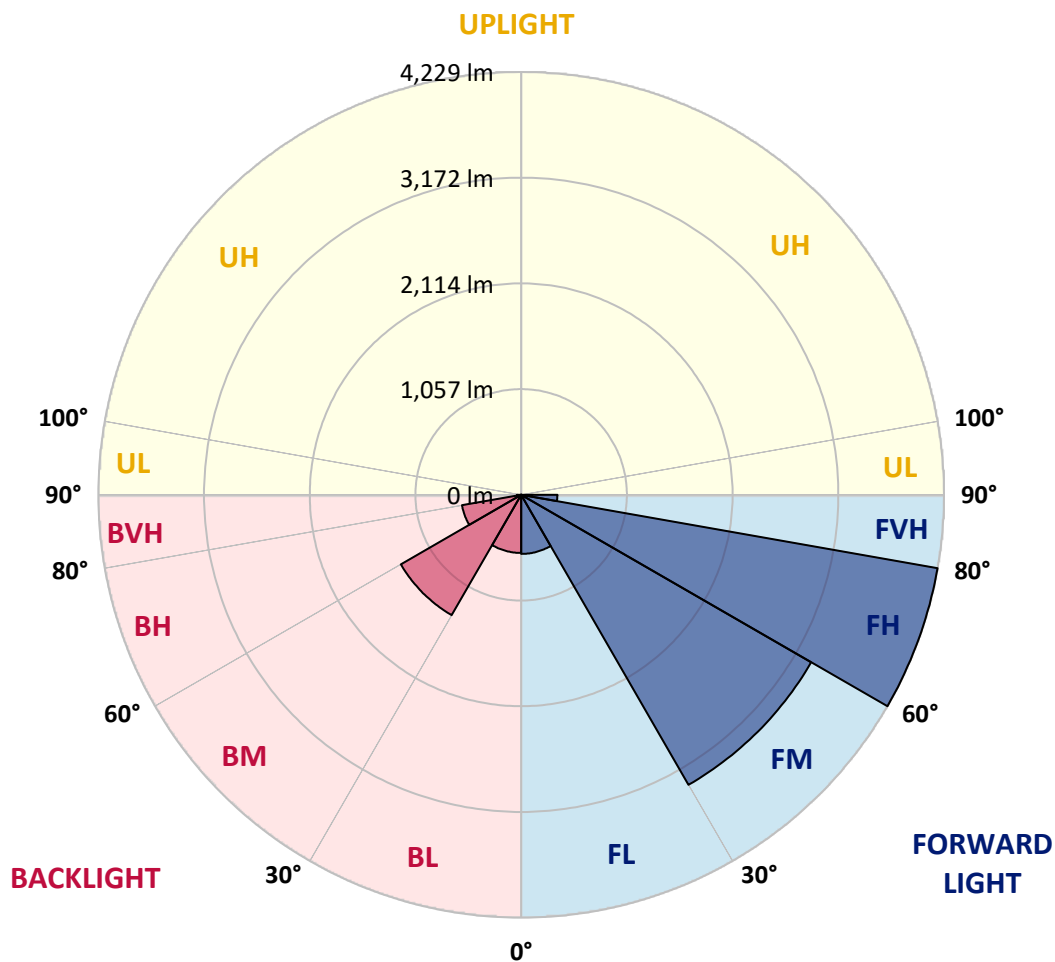
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.2	5.3			
FM	(30°-60°)	3348.6	30.1			
FH	(60°-80°)	4228.7	37.9			G2/5000
FVH	(80°-90°)	362.4	3.3			G3/500
BL	(0°-30°)	581.1	5.2	B2/1000		
BM	(30°-60°)	1389.1	12.5	B2/2500		
BH	(60°-80°)	600.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	41.3	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9
2.5°	1320.5	1318.5	1314.4	1297.9	1295.9	1294.9	1296.9	1290.8	1289.7	1291.8	1289.7
5°	1321.6	1319.5	1314.4	1300.0	1297.9	1295.9	1296.9	1291.8	1292.8	1297.9	1297.9
7.5°	1323.6	1321.6	1316.4	1301.0	1305.1	1303.1	1307.2	1300.0	1300.0	1304.1	1305.1
10°	1318.5	1317.5	1314.4	1303.1	1309.2	1305.1	1309.2	1310.3	1314.4	1317.5	1316.4
12.5°	1305.1	1305.1	1305.1	1300.0	1317.5	1316.4	1323.6	1330.8	1341.1	1346.2	1349.3
15°	1296.9	1295.9	1303.1	1302.1	1323.6	1326.7	1339.0	1357.5	1372.9	1386.3	1390.4
17.5°	1305.1	1305.1	1314.4	1312.3	1333.9	1335.9	1349.3	1376.0	1401.7	1427.3	1438.6
20°	1314.4	1315.4	1326.7	1329.8	1350.3	1349.3	1362.6	1395.5	1430.4	1468.4	1487.9
22.5°	1343.1	1342.1	1351.3	1345.2	1368.8	1372.9	1384.2	1413.0	1462.2	1510.5	1542.3
25°	1364.7	1367.8	1377.0	1372.9	1392.4	1397.5	1416.0	1443.8	1502.3	1559.8	1616.3
27.5°	1385.2	1391.4	1398.6	1397.5	1424.2	1430.4	1444.8	1487.9	1555.7	1624.5	1703.6
30°	1416.0	1414.0	1419.1	1428.4	1463.3	1467.4	1484.8	1537.2	1619.3	1708.7	1814.5
32.5°	1457.1	1455.1	1460.2	1468.4	1510.5	1520.8	1544.4	1600.9	1704.6	1812.4	1941.8
35°	1521.8	1526.9	1531.0	1541.3	1582.4	1596.8	1628.6	1700.5	1820.6	1993.1	2178.0
37.5°	1746.7	1735.4	1712.8	1671.7	1683.0	1699.4	1744.6	1847.3	2021.9	2314.5	2484.0
40°	2097.9	2084.5	2013.7	1893.5	1839.1	1843.2	1887.4	2027.0	2265.2	2692.4	2848.5
42.5°	2428.5	2412.1	2327.9	2178.0	2070.1	2057.8	2061.9	2223.1	2532.2	3070.3	3153.5
45°	2740.7	2748.9	2620.5	2505.5	2382.3	2325.8	2308.4	2428.5	2829.0	3397.9	3423.5
47.5°	3039.5	3045.6	2900.9	2790.0	2670.8	2605.1	2571.2	2664.7	3102.1	3662.8	3639.2
50°	3344.5	3360.9	3162.7	3068.2	2958.4	2911.1	2878.3	2939.9	3404.0	3916.4	3843.5
52.5°	3774.7	3705.9	3446.1	3312.6	3234.6	3220.2	3186.3	3236.6	3724.4	4140.3	3988.3
55°	4253.2	4106.4	3833.2	3600.1	3492.3	3492.3	3462.6	3521.1	4055.0	4307.7	4106.4
57.5°	4408.3	4422.7	4328.2	4074.6	3785.0	3762.4	3733.6	3813.7	4338.5	4457.6	4150.5
60°	4679.4	4719.4	4792.3	4580.8	4438.1	4246.0	4071.5	4114.6	4582.8	4580.8	4197.8
62.5°	4813.9	4851.9	5079.8	4965.9	5100.4	5113.7	4787.2	4454.5	4763.6	4642.4	4220.4
65°	4686.6	4713.3	5017.2	5167.1	5557.3	5743.2	5582.0	4911.4	4859.1	4616.7	4136.2
67.5°	4268.6	4318.9	4570.5	5027.5	5965.0	6068.7	5917.8	5538.8	4900.1	4624.9	4068.4
69°	3829.1	3830.2	4179.3	4812.9	6045.1	6117.0	5932.1	5568.6	4857.0	4605.4	3923.6
70°	3581.7	3607.3	3866.1	4627.0	6015.3	6038.9	5897.2	5567.6	4827.2	4599.3	3786.0
72.5°	2795.1	2781.7	3039.5	3869.2	5678.5	5730.9	5574.8	5410.5	4802.6	4334.3	3202.8
75°	1954.1	1995.2	2247.8	2931.7	4893.0	5050.1	5050.1	5197.9	4420.6	3703.9	2315.6
77.5°	1454.0	1460.2	1662.5	2239.6	3937.0	4100.2	4250.1	4374.4	3455.4	2537.4	1035.1
80°	984.8	994.0	1178.8	1652.2	2917.3	3067.2	3304.4	3009.7	2055.8	878.0	118.1
82.5°	620.2	632.5	779.4	1160.3	2079.4	2147.2	2220.1	1699.4	684.9	101.7	75.0
85°	368.6	370.7	470.3	741.4	1268.2	1272.3	1194.2	782.5	183.8	60.6	47.2
87.5°	154.0	162.2	205.4	328.6	371.7	293.7	182.8	62.6	27.7	24.6	16.4
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°	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9	1297.9
2.5°	1283.6	1294.9	1292.8	1295.9	1300.0	1308.2	1317.5	1313.3	1318.5	1329.8	1329.8
5°	1294.9	1304.1	1307.2	1313.3	1318.5	1326.7	1332.9	1330.8	1342.1	1358.5	1358.5
7.5°	1304.1	1311.3	1321.6	1328.7	1333.9	1350.3	1356.5	1352.4	1360.6	1380.1	1381.1
10°	1317.5	1324.6	1340.0	1347.2	1357.5	1365.7	1373.9	1372.9	1381.1	1398.6	1401.7
12.5°	1350.3	1355.4	1377.0	1387.3	1387.3	1397.5	1391.4	1381.1	1385.2	1395.5	1397.5
15°	1393.4	1400.6	1428.4	1433.5	1428.4	1430.4	1416.0	1383.2	1366.7	1369.8	1370.8
17.5°	1442.7	1455.1	1486.9	1479.7	1473.5	1458.1	1421.2	1371.9	1322.6	1304.1	1307.2
20°	1495.1	1510.5	1547.5	1532.1	1509.5	1469.4	1409.9	1325.7	1249.7	1205.5	1203.5
22.5°	1555.7	1575.2	1610.1	1583.4	1533.1	1463.3	1371.9	1269.2	1172.7	1103.9	1099.8
25°	1638.9	1660.4	1672.7	1619.3	1537.2	1440.7	1317.5	1192.2	1071.0	988.9	982.7
27.5°	1733.3	1744.6	1720.0	1639.9	1517.7	1392.4	1249.7	1094.6	961.1	893.4	884.1
30°	1838.1	1828.8	1751.8	1629.6	1467.4	1316.4	1143.9	970.4	863.6	809.2	800.9
32.5°	1959.2	1930.5	1776.5	1600.9	1400.6	1216.8	1028.9	891.3	806.1	751.7	747.5
35°	2158.4	2076.3	1816.5	1556.7	1312.3	1099.8	923.1	823.5	756.8	689.0	678.8
37.5°	2447.0	2291.9	1875.0	1515.6	1216.8	986.8	843.0	769.1	710.6	634.6	620.2
40°	2746.8	2545.6	1971.6	1470.5	1127.5	903.6	798.9	746.5	689.0	617.1	597.6
42.5°	3021.0	2786.9	2084.5	1414.0	1034.0	836.9	777.3	740.4	682.9	615.1	599.7
45°	3269.5	3013.8	2200.5	1349.3	931.4	783.5	759.9	729.1	670.5	605.8	593.5
47.5°	3479.0	3206.9	2317.6	1274.3	832.8	750.6	741.4	708.5	654.1	591.5	581.2
50°	3652.5	3345.5	2384.4	1195.3	751.7	726.0	714.7	673.6	618.2	559.6	553.5
52.5°	3780.9	3431.7	2444.9	1153.2	688.0	685.9	678.8	638.7	585.3	524.7	512.4
55°	3870.2	3502.6	2418.2	1120.3	620.2	635.6	631.5	606.9	561.7	490.8	480.6
57.5°	3875.3	3508.8	2360.7	925.2	553.5	575.0	582.2	586.3	536.0	473.4	461.1
60°	3870.2	3463.6	2253.9	678.8	488.8	514.5	541.2	541.2	506.2	444.6	435.4
62.5°	3846.6	3374.2	2005.4	483.6	437.4	471.3	506.2	490.8	461.1	411.8	402.5
65°	3738.8	3225.3	1569.0	394.3	415.9	446.7	463.1	441.5	403.6	352.2	348.1
67.5°	3542.6	2884.4	907.7	361.5	397.4	425.1	438.5	405.6	369.7	320.4	318.3
69°	3327.0	2539.4	511.4	353.2	386.1	410.7	422.0	386.1	351.2	303.9	294.7
70°	3134.0	2231.4	332.7	346.0	374.8	401.5	409.7	372.7	339.9	291.6	285.5
72.5°	2374.1	1344.2	223.9	316.3	344.0	364.5	376.9	341.9	305.0	256.7	244.4
75°	1296.9	365.6	197.2	271.1	306.0	333.7	336.8	292.7	239.3	190.0	184.8
77.5°	252.6	125.3	169.4	223.9	243.4	276.2	274.2	244.4	207.4	161.2	155.1
80°	95.5	90.4	141.7	160.2	171.5	206.4	218.7	197.2	172.5	109.9	94.5
82.5°	64.7	66.7	105.8	94.5	104.7	122.2	154.0	149.9	136.6	75.0	66.7
85°	45.2	52.4	58.5	40.0	51.3	77.0	101.7	98.6	84.2	52.4	47.2
87.5°	13.3	14.4	16.4	20.5	31.8	57.5	83.2	68.8	46.2	39.0	33.9
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)