

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: P233512

Luminaire Tested: **VERD-C028-D-U-T3-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C028-D-U-T3-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 930mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8213 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 73  
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

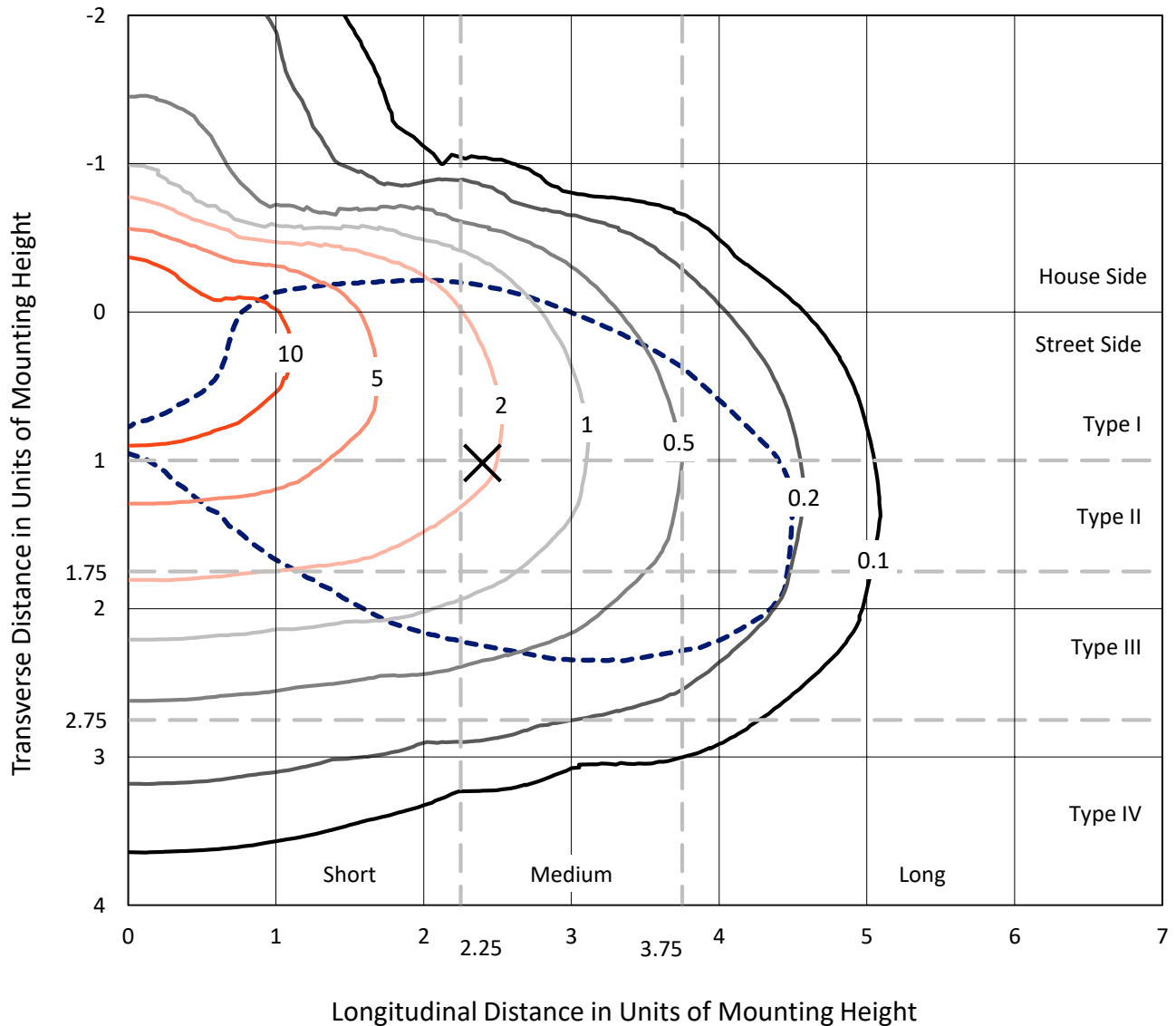


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

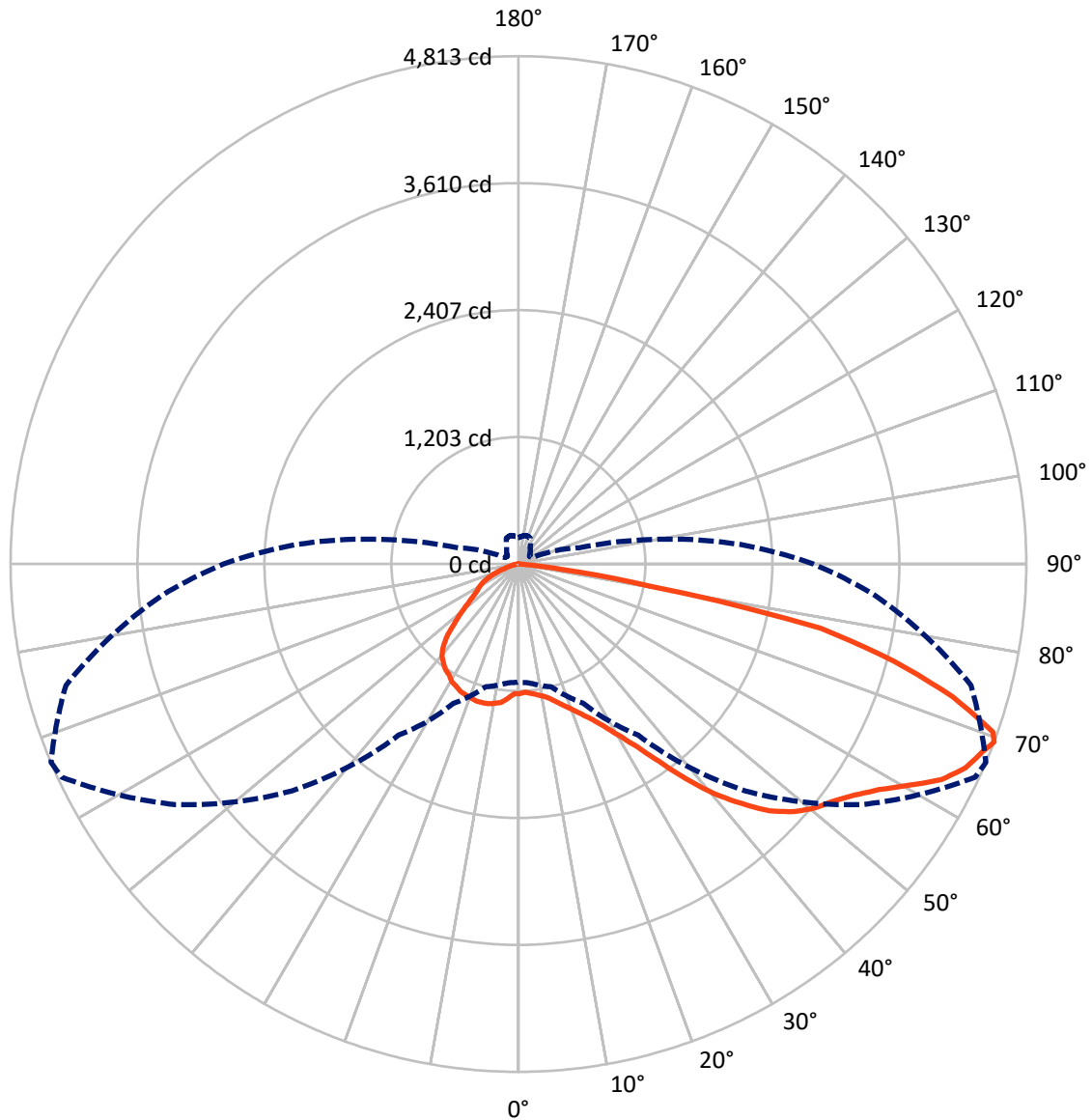


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1849.5	0.0	1849.5
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	6363.5	0.0	6363.5
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	8213.0	0.0	8213.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.4	1.5
10°-20°	396.6	4.8
20°-30°	683.1	8.3
30°-40°	1016.1	12.4
40°-50°	1399.4	17.0
50°-60°	1672.9	20.4
60°-70°	1765.3	21.5
70°-80°	1057.9	12.9
80°-90°	97.3	1.2
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°	8213.0	100.0
0°-180°	8213.0	100.0

**Coefficient of Utilization**



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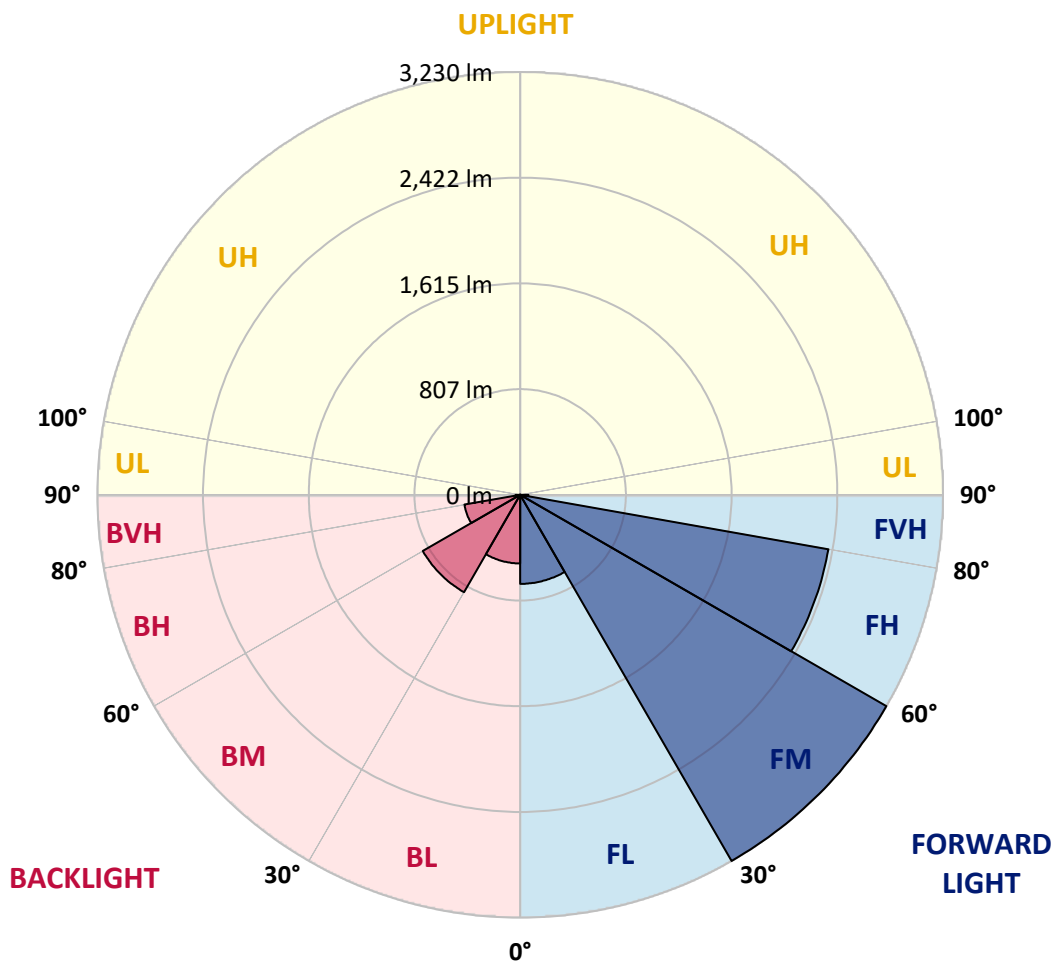
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.1	8.3			
FM	(30°-60°)	3229.7	39.3			
FH	(60°-80°)	2390.8	29.1			G2/5000
FVH	(80°-90°)	62.9	0.8			G1/100
BL	(0°-30°)	524.1	6.4	B2/1000		
BM	(30°-60°)	858.6	10.5	B1/1000		
BH	(60°-80°)	432.4	5.3	B1/500		G1/500
BVH	(80°-90°)	34.4	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5
2.5°	1248.7	1247.9	1244.2	1230.7	1229.2	1227.7	1218.8	1219.5	1217.3	1219.5	1220.3
5°	1283.0	1280.0	1276.3	1262.1	1256.9	1250.2	1236.7	1236.0	1230.7	1232.2	1233.7
7.5°	1325.6	1322.6	1319.6	1303.2	1297.9	1286.0	1265.1	1254.6	1250.2	1251.6	1253.9
10°	1383.1	1377.9	1373.4	1349.5	1341.3	1321.1	1295.7	1277.8	1271.8	1274.1	1280.0
12.5°	1448.8	1442.1	1434.6	1410.0	1398.8	1367.4	1337.5	1314.4	1305.4	1310.6	1315.1
15°	1516.8	1513.0	1510.0	1480.9	1465.2	1430.9	1393.5	1364.4	1356.2	1360.7	1362.9
17.5°	1606.4	1604.1	1598.9	1569.0	1539.2	1499.6	1451.0	1420.4	1412.2	1414.5	1409.2
20°	1704.2	1698.2	1695.2	1661.6	1630.3	1575.8	1519.7	1476.4	1474.2	1474.9	1458.5
22.5°	1814.0	1807.3	1801.3	1770.7	1731.8	1668.4	1595.2	1546.6	1548.1	1549.6	1513.0
25°	1926.0	1920.8	1915.6	1886.4	1847.6	1778.1	1690.0	1635.5	1634.8	1635.5	1584.7
27.5°	2043.3	2037.3	2036.5	2012.6	1973.8	1902.9	1801.3	1746.0	1746.0	1743.0	1666.1
30°	2147.8	2153.8	2153.8	2140.3	2103.8	2032.8	1937.2	1882.0	1889.4	1883.4	1785.6
32.5°	2262.1	2260.6	2271.0	2260.6	2230.7	2165.0	2085.1	2050.0	2062.7	2082.1	1984.3
35°	2328.5	2339.0	2365.1	2380.1	2365.9	2312.1	2253.9	2280.7	2297.9	2385.3	2268.0
37.5°	2405.5	2414.4	2450.3	2486.9	2492.8	2463.7	2463.7	2551.8	2585.4	2699.7	2563.0
40°	2458.5	2467.4	2506.3	2548.8	2607.1	2627.3	2679.5	2816.2	2864.0	2940.9	2782.6
42.5°	2427.1	2431.6	2515.2	2619.0	2704.9	2802.0	2884.9	3058.2	3103.7	3157.5	2963.3
45°	2371.9	2380.1	2472.7	2640.0	2787.8	2980.5	3085.1	3285.9	3338.2	3333.0	3102.2
47.5°	2310.6	2323.3	2426.4	2613.1	2858.8	3135.1	3268.0	3477.1	3507.0	3469.7	3198.6
50°	2242.7	2264.3	2374.1	2586.2	2910.3	3270.3	3403.9	3620.5	3636.2	3560.0	3283.0
52.5°	2165.0	2179.2	2300.9	2534.7	2946.1	3359.9	3512.2	3727.3	3734.0	3672.0	3371.8
55°	2057.4	2070.1	2205.3	2466.0	2951.4	3412.9	3581.7	3841.6	3864.0	3803.5	3452.5
57.5°	1941.7	1957.4	2096.3	2366.6	2903.6	3434.6	3665.3	3988.7	4032.0	3945.4	3517.5
60°	1807.3	1827.4	1967.8	2245.6	2809.5	3468.2	3821.4	4203.0	4256.8	4105.9	3579.4
62.5°	1667.6	1678.8	1808.0	2078.4	2663.1	3485.3	3963.3	4448.0	4499.5	4257.5	3608.6
65°	1471.2	1489.1	1604.1	1877.5	2457.0	3411.4	4029.8	4619.0	4656.3	4380.8	3580.2
67.5°	1262.8	1262.8	1360.7	1637.0	2182.2	3215.7	4002.9	4701.1	4746.0	4467.4	3490.6
69°	1118.7	1129.9	1204.6	1456.3	1980.5	3041.7	3973.8	4776.6	4813.2	4439.8	3387.5
70°	1008.2	1017.9	1093.3	1324.8	1830.4	2904.3	3911.0	4743.0	4769.8	4354.6	3279.2
72.5°	741.6	749.8	802.1	923.1	1376.4	2343.5	3526.4	4288.2	4304.6	3916.2	2893.1
75°	505.6	510.1	549.6	623.6	802.8	1638.5	2881.2	3622.0	3670.6	3396.5	2368.9
77.5°	174.8	188.2	212.1	286.8	343.5	643.7	1952.9	2854.3	2926.7	2630.3	1657.2
80°	59.7	59.0	113.5	147.1	180.7	295.7	617.6	1196.4	1264.3	1084.4	596.7
82.5°	44.8	46.3	75.4	81.4	55.3	109.0	240.5	365.9	401.0	350.3	247.2
85°	28.4	27.6	33.6	35.1	25.4	46.3	58.3	59.0	61.2	53.0	53.8
87.5°	15.7	15.7	14.9	12.7	6.7	6.0	5.2	5.2	4.5	4.5	4.5
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°	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5
2.5°	1216.5	1227.0	1229.2	1232.2	1239.7	1249.4	1262.8	1262.8	1268.1	1283.8	1289.0
5°	1233.7	1246.4	1262.8	1280.0	1300.2	1321.8	1343.5	1351.0	1361.4	1382.3	1386.8
7.5°	1259.9	1274.1	1302.4	1325.6	1342.8	1364.4	1382.3	1385.3	1398.8	1418.2	1421.9
10°	1286.7	1299.4	1327.8	1339.8	1362.9	1386.8	1395.8	1400.3	1411.5	1426.4	1424.2
12.5°	1323.3	1327.1	1347.2	1355.5	1366.7	1381.6	1386.1	1386.1	1392.8	1416.7	1417.4
15°	1359.2	1359.2	1362.2	1357.7	1359.2	1366.7	1367.4	1357.7	1365.2	1377.1	1372.6
17.5°	1397.3	1386.8	1373.4	1354.0	1336.8	1336.0	1320.4	1297.2	1290.5	1307.7	1306.9
20°	1433.1	1415.2	1383.1	1339.0	1315.1	1283.0	1243.4	1230.0	1229.2	1232.2	1230.0
22.5°	1480.2	1443.6	1385.3	1324.8	1259.1	1208.3	1175.5	1129.9	1128.4	1121.7	1111.2
25°	1536.2	1483.9	1395.0	1309.2	1213.6	1147.8	1068.7	1020.1	992.5	998.5	980.6
27.5°	1608.6	1545.1	1398.8	1274.8	1150.8	1039.6	944.0	881.2	857.3	846.9	834.9
30°	1707.9	1610.1	1425.7	1245.7	1073.2	926.0	808.8	717.7	683.3	692.3	693.8
32.5°	1867.0	1733.3	1439.8	1188.2	983.5	802.1	649.7	551.1	531.0	556.4	563.1
35°	2144.1	1924.5	1473.4	1153.8	881.2	657.2	483.2	442.9	447.3	469.0	470.5
37.5°	2416.7	2166.5	1577.3	1079.1	758.8	486.9	374.9	353.2	374.9	402.5	406.3
40°	2607.8	2355.4	1669.1	1005.2	587.0	352.5	286.0	259.9	291.3	335.3	343.5
42.5°	2777.4	2505.5	1734.1	902.9	401.8	251.7	205.4	212.1	258.4	290.5	298.0
45°	2899.1	2608.6	1778.9	770.0	256.2	190.4	183.7	205.4	249.4	274.8	277.1
47.5°	2976.0	2669.1	1746.0	606.4	192.7	180.0	180.7	208.4	252.4	280.8	280.1
50°	3045.5	2701.2	1639.2	480.9	183.0	172.5	184.5	216.6	262.1	288.3	286.8
52.5°	3119.4	2732.6	1509.3	377.1	175.5	168.8	188.9	221.8	262.1	278.6	276.3
55°	3182.9	2760.2	1411.5	303.2	170.3	168.0	193.4	230.0	260.6	267.4	262.9
57.5°	3215.7	2713.1	1305.4	254.7	165.0	168.0	196.4	228.5	269.6	291.3	286.8
60°	3197.8	2669.1	1219.5	236.7	157.6	167.3	197.9	245.0	330.8	351.0	349.5
62.5°	3165.0	2620.5	1099.3	212.8	149.4	168.8	197.2	259.9	380.9	374.1	355.5
65°	3097.8	2523.5	935.0	185.2	141.1	171.8	197.2	292.7	332.3	324.9	316.6
67.5°	2954.4	2313.6	748.3	159.1	132.2	162.8	194.2	278.6	286.0	266.6	256.9
69°	2793.8	2113.5	592.2	144.9	127.0	158.3	193.4	268.9	281.5	260.6	249.4
70°	2668.3	1957.4	478.7	134.4	121.7	156.8	192.7	262.1	279.3	256.2	244.2
72.5°	2222.5	1581.7	250.9	108.3	103.8	142.6	186.0	256.2	280.1	245.7	228.5
75°	1746.0	1125.4	166.5	82.9	79.9	124.7	170.3	246.4	263.6	221.1	194.9
77.5°	1076.9	492.9	115.0	57.5	58.3	97.1	146.4	220.3	265.9	223.3	189.7
80°	312.9	190.4	73.2	38.8	35.8	57.5	115.0	189.7	252.4	229.3	206.9
82.5°	180.7	124.0	49.3	24.6	21.7	26.1	72.4	147.1	222.5	209.9	214.3
85°	41.1	34.4	17.9	11.9	11.9	14.9	24.6	85.1	153.8	180.0	203.1
87.5°	4.5	4.5	4.5	4.5	4.5	3.7	4.5	23.2	67.2	95.6	111.3
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)