

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: P233865

Luminaire Tested: **VERD-G-C028-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233865
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-G-C028-D-U-T4-8027
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 885mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11794 lumens
Efficiency: N/A
Efficacy: 114.5 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): 103
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

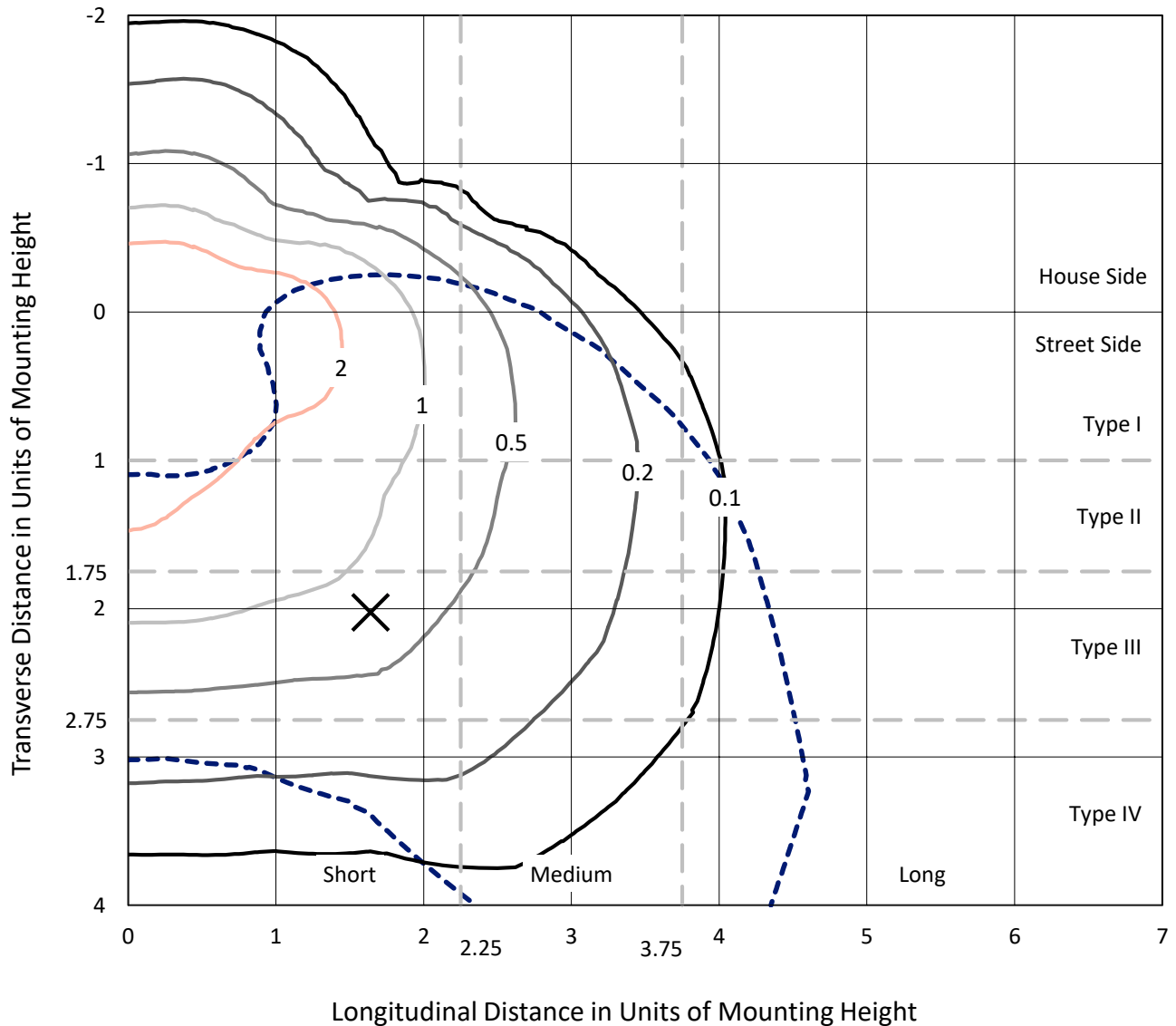


REPORT NUMBER: P233865

CATALOG NUMBER: VERD-G-C028-D-U-T4-8027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

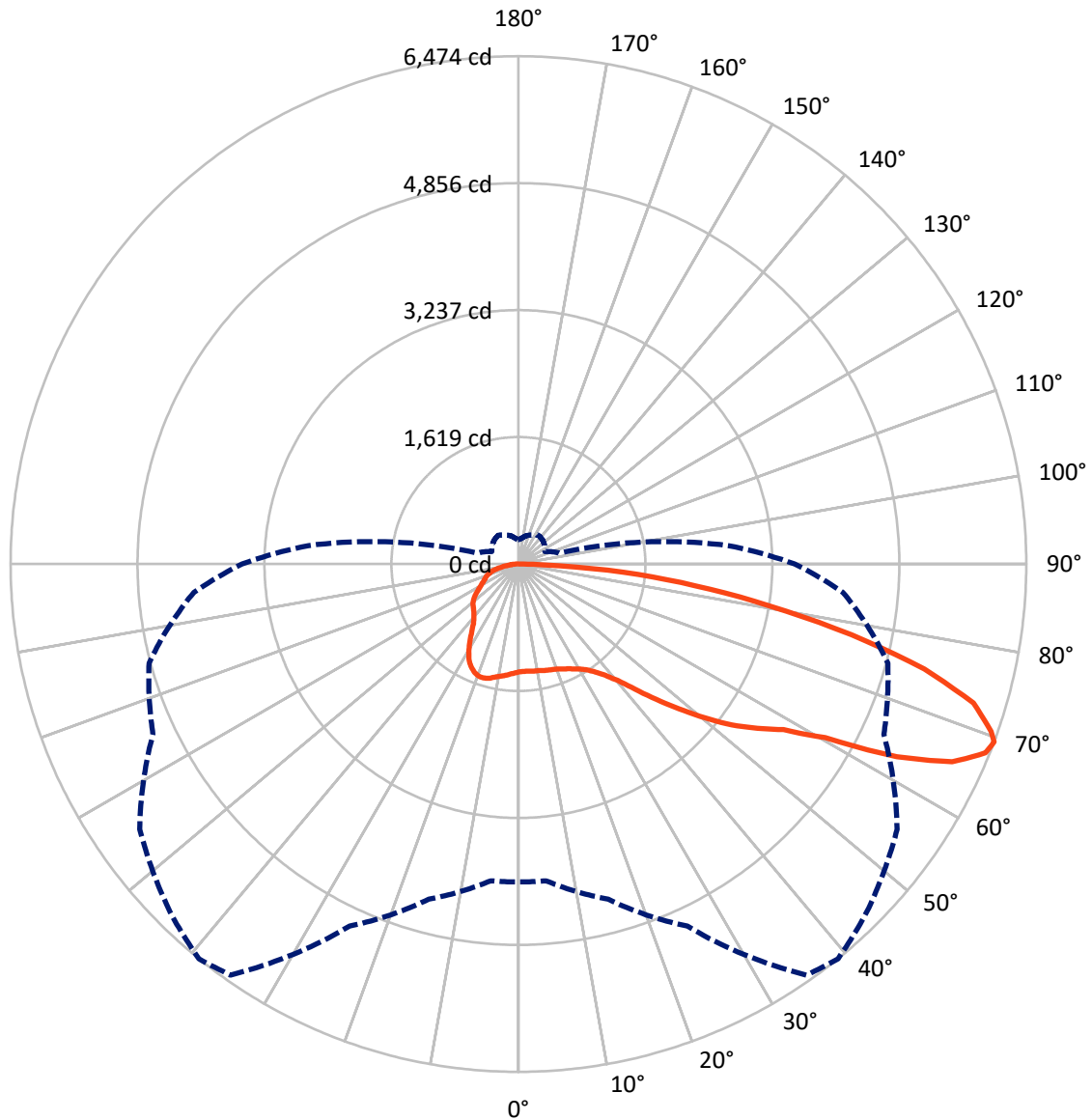


Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233865

CATALOG NUMBER: VERD-G-C028-D-U-T4-8027

Luminous Intensity Polar Plot



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



REPORT NUMBER: P233865

CATALOG NUMBER: VERD-G-C028-D-U-T4-8027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2764.7	0.0	2764.7
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	9029.3	0.0	9029.3
	% Fixture	76.6	0.0	76.6
Total	Lumens	11794.0	0.0	11794.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.1
10°-20°	412.6	3.5
20°-30°	694.6	5.9
30°-40°	1006.3	8.5
40°-50°	1626.7	13.8
50°-60°	2381.5	20.2
60°-70°	2980.7	25.3
70°-80°	2130.9	18.1
80°-90°	427.2	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°	11794.0	100.0
0°-180°	11794.0	100.0



REPORT NUMBER: P233865

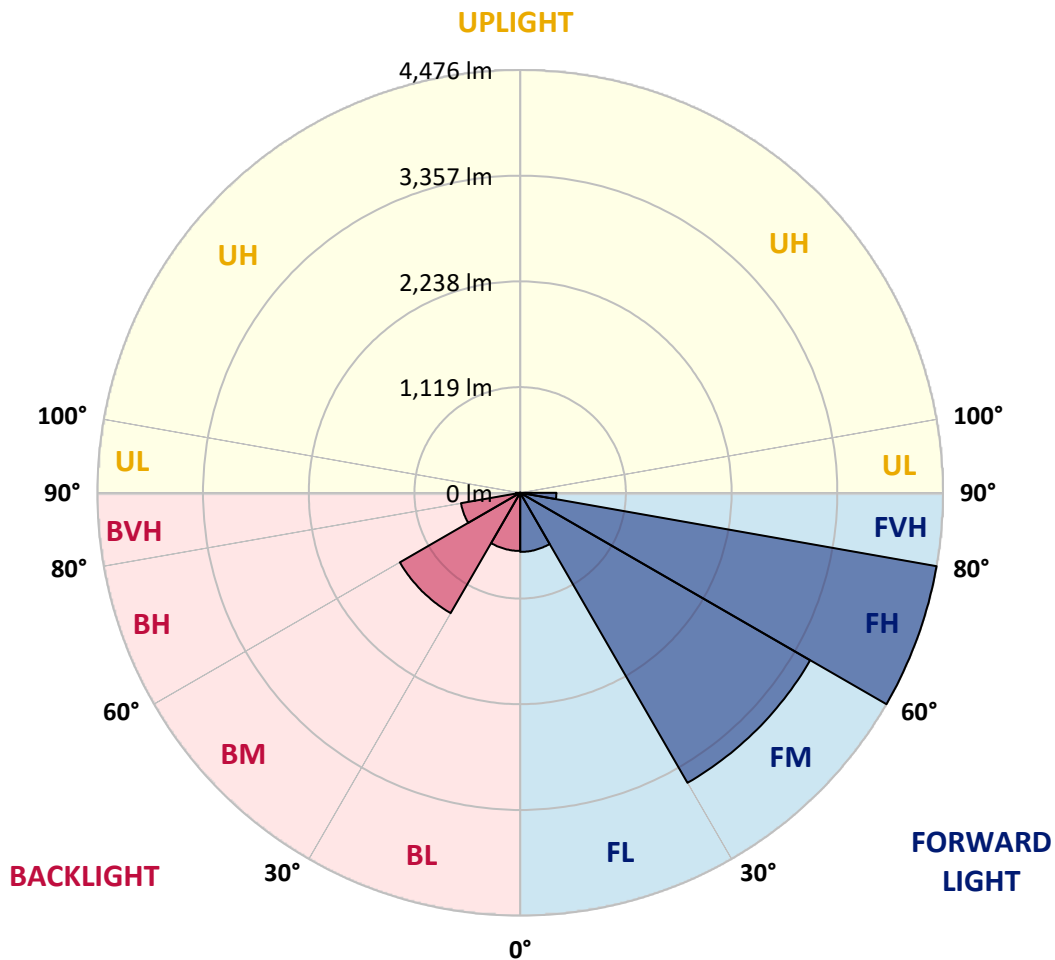
CATALOG NUMBER: VERD-G-C028-D-U-T4-8027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	625.7	5.3			
FM	(30°-60°)	3544.3	30.1			
FH	(60°-80°)	4475.8	37.9			G2/5000
FVH	(80°-90°)	383.6	3.3			G3/500
BL	(0°-30°)	615.1	5.2	B2/1000		
BM	(30°-60°)	1470.2	12.5	B2/2500		
BH	(60°-80°)	635.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	43.7	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





REPORT NUMBER: P233865

CATALOG NUMBER: VERD-G-C028-D-U-T4-8027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1397.7	1395.5	1391.2	1373.8	1371.6	1370.5	1372.7	1366.2	1365.1	1367.3	1365.1
5°	1398.8	1396.6	1391.2	1375.9	1373.8	1371.6	1372.7	1367.3	1368.3	1373.8	1373.8
7.5°	1400.9	1398.8	1393.3	1377.0	1381.4	1379.2	1383.6	1375.9	1375.9	1380.3	1381.4
10°	1395.5	1394.4	1391.2	1379.2	1385.7	1381.4	1385.7	1386.8	1391.2	1394.4	1393.3
12.5°	1381.4	1381.4	1381.4	1375.9	1394.4	1393.3	1400.9	1408.6	1419.4	1424.9	1428.1
15°	1372.7	1371.6	1379.2	1378.1	1400.9	1404.2	1417.2	1436.8	1453.1	1467.2	1471.6
17.5°	1381.4	1381.4	1391.2	1389.0	1411.8	1414.0	1428.1	1456.4	1483.5	1510.7	1522.7
20°	1391.2	1392.2	1404.2	1407.5	1429.2	1428.1	1442.2	1477.0	1514.0	1554.2	1574.8
22.5°	1421.6	1420.5	1430.3	1423.8	1448.8	1453.1	1465.1	1495.5	1547.7	1598.7	1632.4
25°	1444.4	1447.7	1457.5	1453.1	1473.8	1479.2	1498.8	1528.1	1590.1	1650.9	1710.7
27.5°	1466.2	1472.7	1480.3	1479.2	1507.5	1514.0	1529.2	1574.8	1646.6	1719.4	1803.1
30°	1498.8	1496.6	1502.0	1511.8	1548.8	1553.1	1571.6	1627.0	1714.0	1808.5	1920.5
32.5°	1542.2	1540.1	1545.5	1554.2	1598.7	1609.6	1634.6	1694.4	1804.2	1918.3	2055.2
35°	1610.7	1616.1	1620.5	1631.4	1674.8	1690.0	1723.7	1799.8	1927.0	2109.6	2305.2
37.5°	1848.7	1836.8	1812.9	1769.4	1781.3	1798.7	1846.5	1955.2	2140.0	2449.7	2629.1
40°	2220.4	2206.3	2131.3	2004.1	1946.5	1950.9	1997.6	2145.4	2397.6	2849.7	3014.9
42.5°	2570.4	2553.0	2463.9	2305.2	2191.1	2178.0	2182.4	2353.0	2680.2	3249.7	3337.7
45°	2900.8	2909.5	2773.6	2651.9	2521.5	2461.7	2443.2	2570.4	2994.3	3596.4	3623.5
47.5°	3217.1	3223.6	3070.3	2953.0	2826.9	2757.3	2721.5	2820.4	3283.4	3876.8	3851.8
50°	3539.9	3557.2	3347.5	3247.5	3131.2	3081.2	3046.4	3111.6	3602.9	4145.2	4068.1
52.5°	3995.2	3922.4	3647.5	3506.2	3423.6	3408.3	3372.5	3425.7	3942.0	4382.2	4221.3
55°	4501.7	4346.3	4057.2	3810.5	3696.4	3696.4	3664.8	3726.8	4292.0	4559.3	4346.3
57.5°	4665.8	4681.0	4581.1	4312.6	4006.1	3982.2	3951.8	4036.5	4591.9	4718.0	4393.0
60°	4952.8	4995.1	5072.3	4848.4	4697.3	4494.1	4309.3	4355.0	4850.6	4848.4	4443.0
62.5°	5095.1	5135.3	5376.6	5256.0	5398.4	5412.5	5066.9	4714.7	5041.9	4913.6	4466.9
65°	4960.4	4988.6	5310.3	5469.0	5882.0	6078.7	5908.1	5198.4	5143.0	4886.5	4377.8
67.5°	4518.0	4571.3	4837.5	5321.2	6313.5	6423.3	6263.5	5862.4	5186.4	4895.1	4306.1
69°	4052.8	4053.9	4423.5	5094.0	6398.3	6474.3	6278.7	5894.0	5140.8	4874.5	4152.8
70°	3790.9	3818.1	4092.0	4897.3	6366.7	6391.7	6241.8	5892.9	5109.3	4868.0	4007.2
72.5°	2958.4	2944.3	3217.1	4095.2	6010.3	6065.7	5900.5	5726.6	5083.2	4587.6	3389.9
75°	2068.3	2111.7	2379.1	3102.9	5178.8	5345.1	5345.1	5501.6	4678.9	3920.2	2450.8
77.5°	1539.0	1545.5	1759.6	2370.4	4167.0	4339.8	4498.5	4630.0	3657.2	2685.6	1095.5
80°	1042.3	1052.1	1247.7	1748.7	3087.7	3246.4	3497.5	3185.5	2175.9	929.3	125.0
82.5°	656.5	669.5	824.9	1228.1	2200.9	2272.6	2349.8	1798.7	724.9	107.6	79.3
85°	390.2	392.4	497.8	784.7	1342.3	1346.6	1264.0	828.2	194.5	64.1	50.0
87.5°	163.0	171.7	217.4	347.8	393.4	310.8	193.5	66.3	29.3	26.1	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233865

CATALOG NUMBER: VERD-G-C028-D-U-T4-8027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8	1373.8
2.5°	1358.6	1370.5	1368.3	1371.6	1375.9	1384.6	1394.4	1390.1	1395.5	1407.5	1407.5
5°	1370.5	1380.3	1383.6	1390.1	1395.5	1404.2	1410.7	1408.6	1420.5	1437.9	1437.9
7.5°	1380.3	1387.9	1398.8	1406.4	1411.8	1429.2	1435.7	1431.4	1440.1	1460.7	1461.8
10°	1394.4	1402.0	1418.3	1425.9	1436.8	1445.5	1454.2	1453.1	1461.8	1480.3	1483.5
12.5°	1429.2	1434.6	1457.5	1468.3	1468.3	1479.2	1472.7	1461.8	1466.2	1477.0	1479.2
15°	1474.8	1482.5	1511.8	1517.2	1511.8	1514.0	1498.8	1464.0	1446.6	1449.9	1450.9
17.5°	1527.0	1540.1	1573.8	1566.1	1559.6	1543.3	1504.2	1452.0	1399.9	1380.3	1383.6
20°	1582.4	1598.7	1637.9	1621.6	1597.7	1555.3	1492.2	1403.1	1322.7	1276.0	1273.8
22.5°	1646.6	1667.2	1704.2	1675.9	1622.7	1548.8	1452.0	1343.3	1241.2	1168.4	1164.0
25°	1734.6	1757.4	1770.5	1714.0	1627.0	1524.8	1394.4	1261.8	1133.6	1046.6	1040.1
27.5°	1834.6	1846.5	1820.5	1735.7	1606.4	1473.8	1322.7	1158.6	1017.3	945.6	935.8
30°	1945.5	1935.7	1854.2	1724.8	1553.1	1393.3	1210.7	1027.1	914.0	856.4	847.7
32.5°	2073.7	2043.3	1880.2	1694.4	1482.5	1287.9	1089.0	943.4	853.2	795.6	791.2
35°	2284.5	2197.6	1922.6	1647.7	1389.0	1164.0	977.1	871.6	801.0	729.3	718.4
37.5°	2590.0	2425.8	1984.6	1604.2	1287.9	1044.5	892.3	814.0	752.1	671.7	656.5
40°	2907.3	2694.3	2086.7	1556.4	1193.4	956.4	845.6	790.1	729.3	653.2	632.5
42.5°	3197.5	2949.7	2206.3	1496.6	1094.5	885.8	822.7	783.6	722.8	651.0	634.7
45°	3460.5	3189.9	2329.1	1428.1	985.8	829.3	804.3	771.7	709.7	641.2	628.2
47.5°	3682.2	3394.2	2453.0	1348.8	881.4	794.5	784.7	749.9	692.3	626.0	615.2
50°	3865.9	3540.9	2523.7	1265.1	795.6	768.4	756.4	713.0	654.3	592.3	585.8
52.5°	4001.8	3632.2	2587.8	1220.5	728.2	726.0	718.4	676.0	619.5	555.4	542.3
55°	4096.3	3707.2	2559.5	1185.7	656.5	672.8	668.4	642.3	594.5	519.5	508.6
57.5°	4101.8	3713.7	2498.7	979.2	585.8	608.6	616.2	620.6	567.3	501.0	488.0
60°	4096.3	3665.9	2385.6	718.4	517.3	544.5	572.8	572.8	535.8	470.6	460.8
62.5°	4071.3	3571.4	2122.6	511.9	463.0	498.9	535.8	519.5	488.0	435.8	426.0
65°	3957.2	3413.8	1660.7	417.3	440.2	472.8	490.2	467.3	427.1	372.8	368.4
67.5°	3749.6	3052.9	960.8	382.6	420.6	450.0	464.1	429.3	391.3	339.1	336.9
69°	3521.4	2687.8	541.2	373.9	408.7	434.7	446.7	408.7	371.7	321.7	311.9
70°	3317.1	2361.7	352.1	366.3	396.7	425.0	433.7	394.5	359.7	308.7	302.1
72.5°	2512.8	1422.7	236.9	334.7	364.1	385.8	398.9	361.9	322.8	271.7	258.7
75°	1372.7	386.9	208.7	286.9	323.9	353.2	356.5	309.8	253.2	201.1	195.6
77.5°	267.4	132.6	179.3	236.9	257.6	292.4	290.2	258.7	219.5	170.6	164.1
80°	101.1	95.6	150.0	169.5	181.5	218.5	231.5	208.7	182.6	116.3	100.0
82.5°	68.5	70.6	111.9	100.0	110.9	129.3	163.0	158.7	144.6	79.3	70.6
85°	47.8	55.4	62.0	42.4	54.3	81.5	107.6	104.3	89.1	55.4	50.0
87.5°	14.1	15.2	17.4	21.7	33.7	60.9	88.0	72.8	48.9	41.3	35.9
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)