

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: P233514

Luminaire Tested: **VERD-C02-D-U-T3-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233514
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-C02-D-U-T3-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1140mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9692 lumens
Efficiency: N/A
Efficacy: 107.7 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

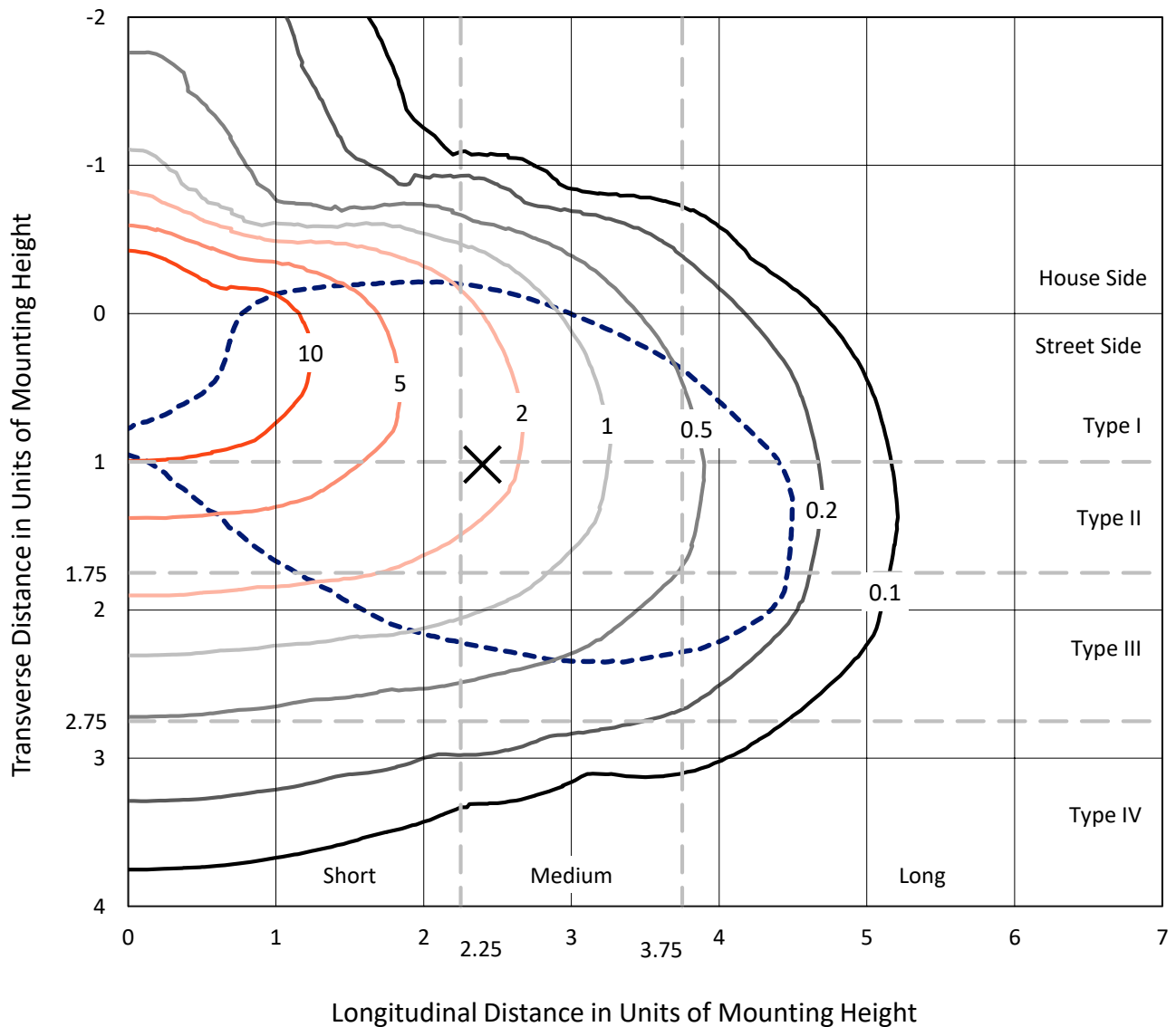
Input Watts (W): 90
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233514
 CATALOG NUMBER: VERD-C02-D-U-T3-8027

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

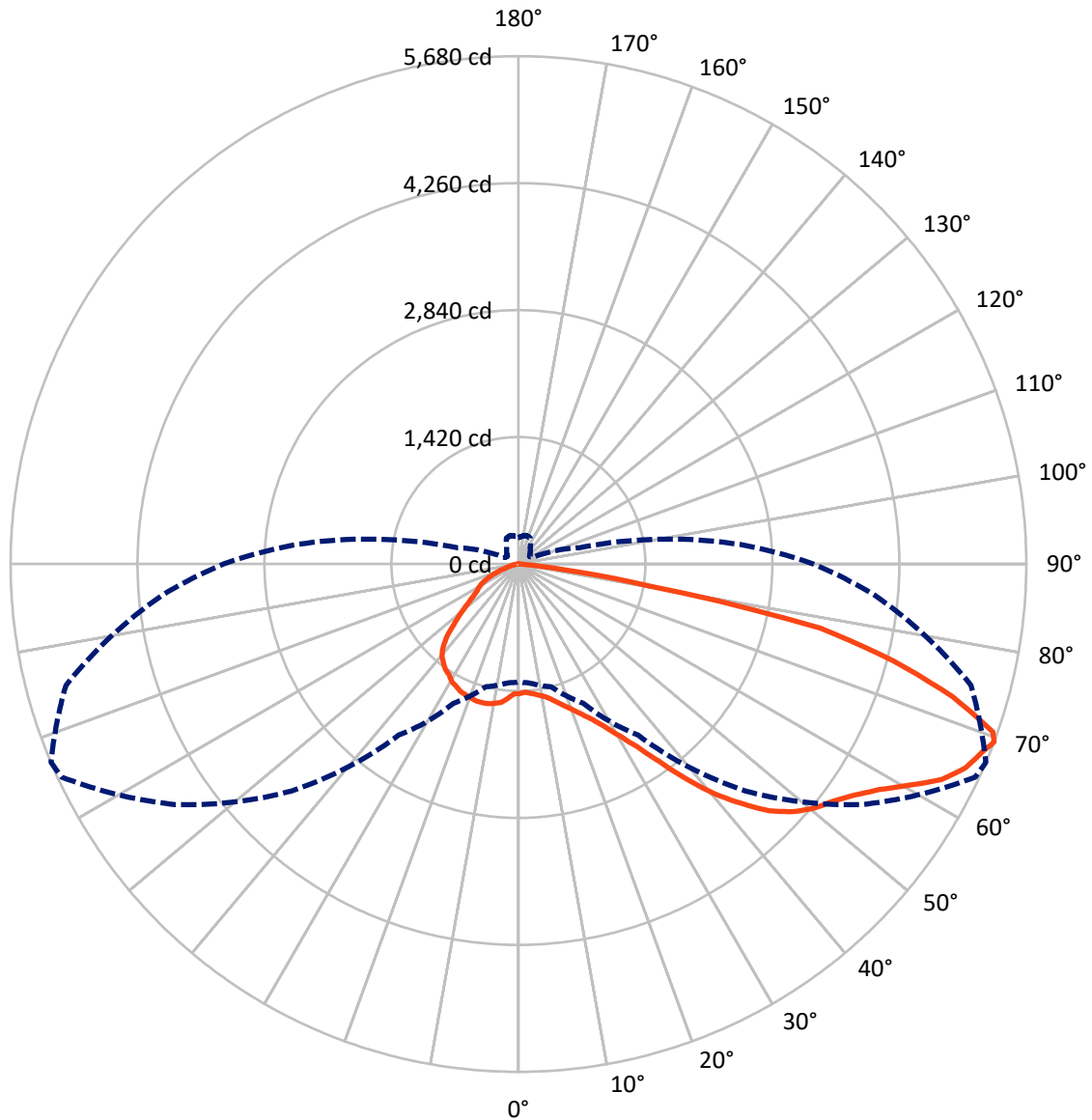


Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P233514

CATALOG NUMBER: VERD-C02-D-U-T3-8027

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233514

CATALOG NUMBER: VERD-C02-D-U-T3-8027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2182.5	0.0	2182.5
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	7509.5	0.0	7509.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	9692.0	0.0	9692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	1.5
10°-20°	468.0	4.8
20°-30°	806.2	8.3
30°-40°	1199.1	12.4
40°-50°	1651.4	17.0
50°-60°	1974.1	20.4
60°-70°	2083.3	21.5
70°-80°	1248.4	12.9
80°-90°	114.8	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°	9692.0	100.0
0°-180°	9692.0	100.0



REPORT NUMBER: P233514

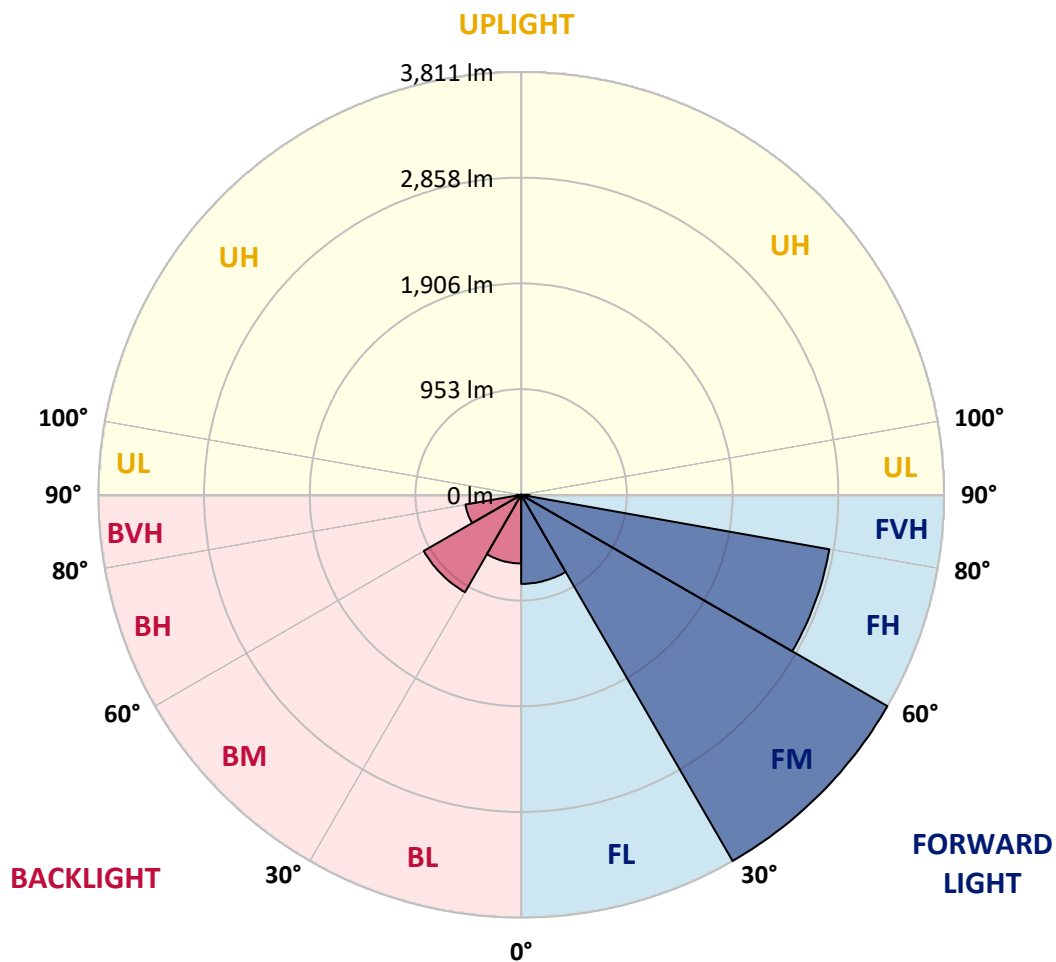
CATALOG NUMBER: VERD-C02-D-U-T3-8027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	802.5	8.3			
FM	(30°-60°)	3811.3	39.3			
FH	(60°-80°)	2821.3	29.1			G2/5000
FVH	(80°-90°)	74.3	0.8			G1/100
BL	(0°-30°)	618.4	6.4	B2/1000		
BM	(30°-60°)	1013.2	10.5	B2/2500		
BH	(60°-80°)	510.3	5.3	B2/1000		G2/1000
BVH	(80°-90°)	40.6	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





REPORT NUMBER: P233514

CATALOG NUMBER: VERD-C02-D-U-T3-8027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7
2.5°	1473.5	1472.6	1468.2	1452.4	1450.6	1448.8	1438.3	1439.1	1436.5	1439.1	1440.0
5°	1514.1	1510.5	1506.1	1489.4	1483.2	1475.3	1459.4	1458.5	1452.4	1454.1	1455.9
7.5°	1564.3	1560.8	1557.2	1537.9	1531.7	1517.6	1492.9	1480.6	1475.3	1477.0	1479.7
10°	1632.2	1626.0	1620.7	1592.5	1582.8	1559.0	1529.0	1507.9	1500.8	1503.5	1510.5
12.5°	1709.7	1701.8	1693.0	1663.9	1650.7	1613.6	1578.4	1551.1	1540.5	1546.7	1552.0
15°	1789.9	1785.5	1782.0	1747.6	1729.1	1688.6	1644.5	1610.1	1600.4	1605.7	1608.4
17.5°	1895.7	1893.0	1886.8	1851.6	1816.3	1769.6	1712.3	1676.2	1666.5	1669.2	1663.0
20°	2011.1	2004.1	2000.5	1960.9	1923.9	1859.5	1793.4	1742.3	1739.7	1740.5	1721.2
22.5°	2140.7	2132.7	2125.7	2089.5	2043.7	1968.8	1882.4	1825.2	1826.9	1828.7	1785.5
25°	2272.8	2266.7	2260.5	2226.1	2180.3	2098.4	1994.4	1930.0	1929.1	1930.0	1870.1
27.5°	2411.2	2404.2	2403.3	2375.1	2329.3	2245.5	2125.7	2060.5	2060.5	2056.9	1966.2
30°	2534.6	2541.6	2541.6	2525.8	2482.6	2398.9	2286.1	2220.9	2229.7	2222.6	2107.2
32.5°	2669.4	2667.7	2680.0	2667.7	2632.4	2554.9	2460.6	2419.1	2434.1	2457.0	2341.6
35°	2747.9	2760.2	2791.0	2808.7	2791.9	2728.5	2659.7	2691.5	2711.7	2814.8	2676.5
37.5°	2838.6	2849.2	2891.5	2934.7	2941.7	2907.4	2907.4	3011.4	3051.0	3185.9	3024.6
40°	2901.2	2911.8	2957.6	3007.8	3076.6	3100.4	3162.1	3323.3	3379.8	3470.5	3283.7
42.5°	2864.2	2869.5	2968.2	3090.7	3192.0	3306.6	3404.4	3608.9	3662.6	3726.1	3497.0
45°	2799.0	2808.7	2918.0	3115.4	3289.9	3517.2	3640.6	3877.7	3939.4	3933.2	3660.9
47.5°	2726.7	2741.7	2863.3	3083.6	3373.6	3699.7	3856.5	4103.3	4138.5	4094.5	3774.6
50°	2646.5	2672.1	2801.6	3051.9	3434.4	3859.2	4016.9	4272.5	4291.0	4201.1	3874.2
52.5°	2554.9	2571.6	2715.3	2991.1	3476.7	3964.9	4144.7	4398.5	4406.5	4333.3	3979.0
55°	2428.0	2442.9	2602.5	2910.0	3482.9	4027.5	4226.7	4533.4	4559.8	4488.4	4074.2
57.5°	2291.4	2309.9	2473.8	2792.8	3426.5	4053.1	4325.4	4707.0	4758.1	4655.9	4150.9
60°	2132.7	2156.5	2322.2	2650.0	3315.4	4092.7	4509.6	4959.9	5023.4	4845.3	4224.0
62.5°	1967.9	1981.1	2133.6	2452.6	3142.7	4113.0	4677.0	5249.0	5309.8	5024.2	4258.4
65°	1736.1	1757.3	1893.0	2215.6	2899.4	4025.7	4755.4	5450.8	5494.8	5169.7	4224.9
67.5°	1490.3	1490.3	1605.7	1931.8	2575.1	3794.8	4723.7	5547.7	5600.6	5271.9	4119.2
69°	1320.2	1333.4	1421.5	1718.5	2337.2	3589.5	4689.3	5636.7	5679.9	5239.3	3997.5
70°	1189.7	1201.2	1290.2	1563.4	2160.0	3427.3	4615.3	5597.1	5628.8	5138.8	3869.7
72.5°	875.1	884.8	946.5	1089.3	1624.2	2765.5	4161.5	5060.4	5079.8	4621.5	3414.1
75°	596.6	601.9	648.6	735.9	947.4	1933.6	3400.0	4274.3	4331.5	4008.1	2795.5
77.5°	206.2	222.1	250.3	338.4	405.4	759.7	2304.6	3368.3	3453.8	3103.9	1955.6
80°	70.5	69.6	134.0	173.6	213.3	349.0	728.8	1411.8	1492.0	1279.6	704.2
82.5°	52.9	54.6	89.0	96.1	65.2	128.7	283.8	431.8	473.3	413.3	291.7
85°	33.5	32.6	39.7	41.4	30.0	54.6	68.7	69.6	72.3	62.6	63.5
87.5°	18.5	18.5	17.6	15.0	7.9	7.1	6.2	6.2	5.3	5.3	5.3
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: P233514

CATALOG NUMBER: VERD-C02-D-U-T3-8027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7	1449.7
2.5°	1435.6	1448.0	1450.6	1454.1	1462.9	1474.4	1490.3	1490.3	1496.4	1514.9	1521.1
5°	1455.9	1470.9	1490.3	1510.5	1534.3	1559.9	1585.4	1594.3	1606.6	1631.3	1636.6
7.5°	1486.7	1503.5	1537.0	1564.3	1584.6	1610.1	1631.3	1634.8	1650.7	1673.6	1678.0
10°	1518.5	1533.4	1566.9	1581.0	1608.4	1636.6	1647.1	1652.4	1665.6	1683.3	1680.6
12.5°	1561.6	1566.1	1589.8	1599.5	1612.8	1630.4	1635.7	1635.7	1643.6	1671.8	1672.7
15°	1603.9	1603.9	1607.5	1602.2	1603.9	1612.8	1613.6	1602.2	1611.0	1625.1	1619.8
17.5°	1648.9	1636.6	1620.7	1597.8	1577.5	1576.6	1558.1	1530.8	1522.9	1543.1	1542.3
20°	1691.2	1670.0	1632.2	1580.2	1552.0	1514.1	1467.3	1451.5	1450.6	1454.1	1451.5
22.5°	1746.7	1703.5	1634.8	1563.4	1485.9	1425.9	1387.2	1333.4	1331.6	1323.7	1311.4
25°	1812.8	1751.1	1646.3	1544.9	1432.1	1354.5	1261.1	1203.8	1171.2	1178.3	1157.1
27.5°	1898.3	1823.4	1650.7	1504.4	1358.1	1226.8	1114.0	1039.9	1011.7	999.4	985.3
30°	2015.5	1900.1	1682.4	1470.0	1266.4	1092.8	954.4	846.9	806.4	817.0	818.7
32.5°	2203.2	2045.5	1699.1	1402.1	1160.7	946.5	766.7	650.4	626.6	656.6	664.5
35°	2530.2	2271.1	1738.8	1361.6	1039.9	775.5	570.2	522.6	527.9	553.5	555.2
37.5°	2851.9	2556.6	1861.3	1273.5	895.4	574.6	442.4	416.9	442.4	475.0	479.4
40°	3077.5	2779.6	1969.7	1186.2	692.7	416.0	337.5	306.7	343.7	395.7	405.4
42.5°	3277.5	2956.7	2046.4	1065.5	474.1	297.0	242.4	250.3	304.9	342.8	351.6
45°	3421.2	3078.3	2099.2	908.6	302.3	224.7	216.8	242.4	294.4	324.3	327.0
47.5°	3511.9	3149.7	2060.5	715.6	227.4	212.4	213.3	245.9	297.9	331.4	330.5
50°	3593.9	3187.6	1934.4	567.6	215.9	203.6	217.7	255.6	309.3	340.2	338.4
52.5°	3681.2	3224.6	1781.1	445.1	207.1	199.2	223.0	261.7	309.3	328.7	326.1
55°	3756.1	3257.3	1665.6	357.8	200.9	198.3	228.3	271.4	307.6	315.5	310.2
57.5°	3794.8	3201.7	1540.5	300.5	194.8	198.3	231.8	269.7	318.1	343.7	338.4
60°	3773.7	3149.7	1439.1	279.4	186.0	197.4	233.5	289.1	390.4	414.2	412.4
62.5°	3734.9	3092.4	1297.3	251.2	176.3	199.2	232.7	306.7	449.5	441.5	419.5
65°	3655.6	2977.9	1103.4	218.6	166.6	202.7	232.7	345.5	392.2	383.4	373.7
67.5°	3486.4	2730.2	883.1	187.7	156.0	192.1	229.1	328.7	337.5	314.6	303.2
69°	3296.9	2494.1	698.9	171.0	149.8	186.8	228.3	317.3	332.2	307.6	294.4
70°	3148.9	2309.9	564.9	158.6	143.7	185.1	227.4	309.3	329.6	302.3	288.2
72.5°	2622.7	1866.6	296.1	127.8	122.5	168.3	219.4	302.3	330.5	289.9	269.7
75°	2060.5	1328.1	196.5	97.8	94.3	147.2	200.9	290.8	311.1	260.9	230.0
77.5°	1270.8	581.7	135.7	67.9	68.7	114.6	172.7	260.0	313.7	263.5	223.8
80°	369.3	224.7	86.4	45.8	42.3	67.9	135.7	223.8	297.9	270.6	244.1
82.5°	213.3	146.3	58.2	29.1	25.6	30.8	85.5	173.6	262.6	247.6	252.9
85°	48.5	40.5	21.2	14.1	14.1	17.6	29.1	100.5	181.5	212.4	239.7
87.5°	5.3	5.3	5.3	5.3	5.3	4.4	5.3	27.3	79.3	112.8	131.3
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)