

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: P233569

Luminaire Tested: **VERD-C02H-D-U-T4-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233569  
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-C02H-D-U-T4-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12905 lumens  
Efficiency: N/A  
Efficacy: 107.5 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): 120  
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

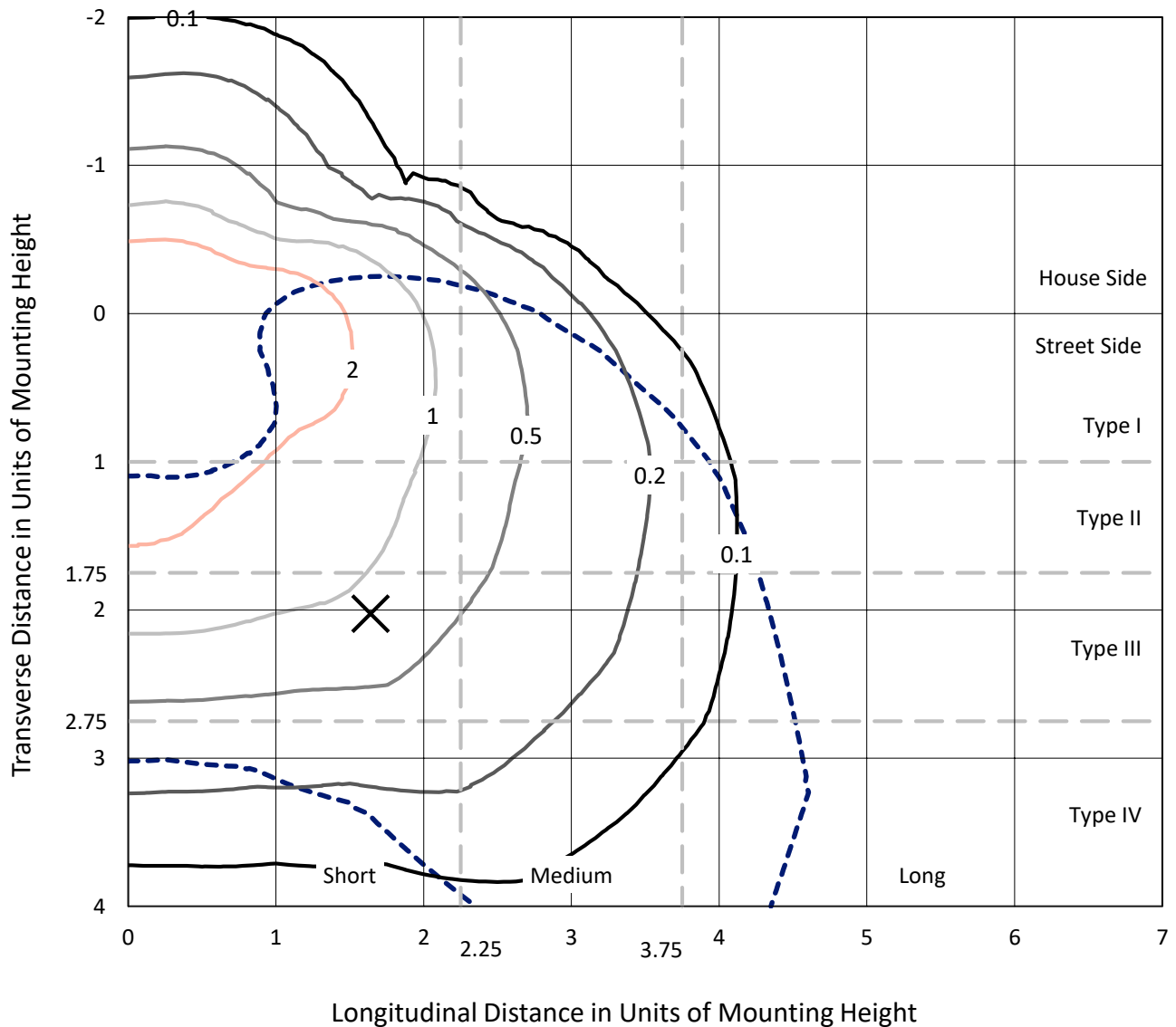


REPORT NUMBER: P233569

CATALOG NUMBER: VERD-C02H-D-U-T4-8027

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

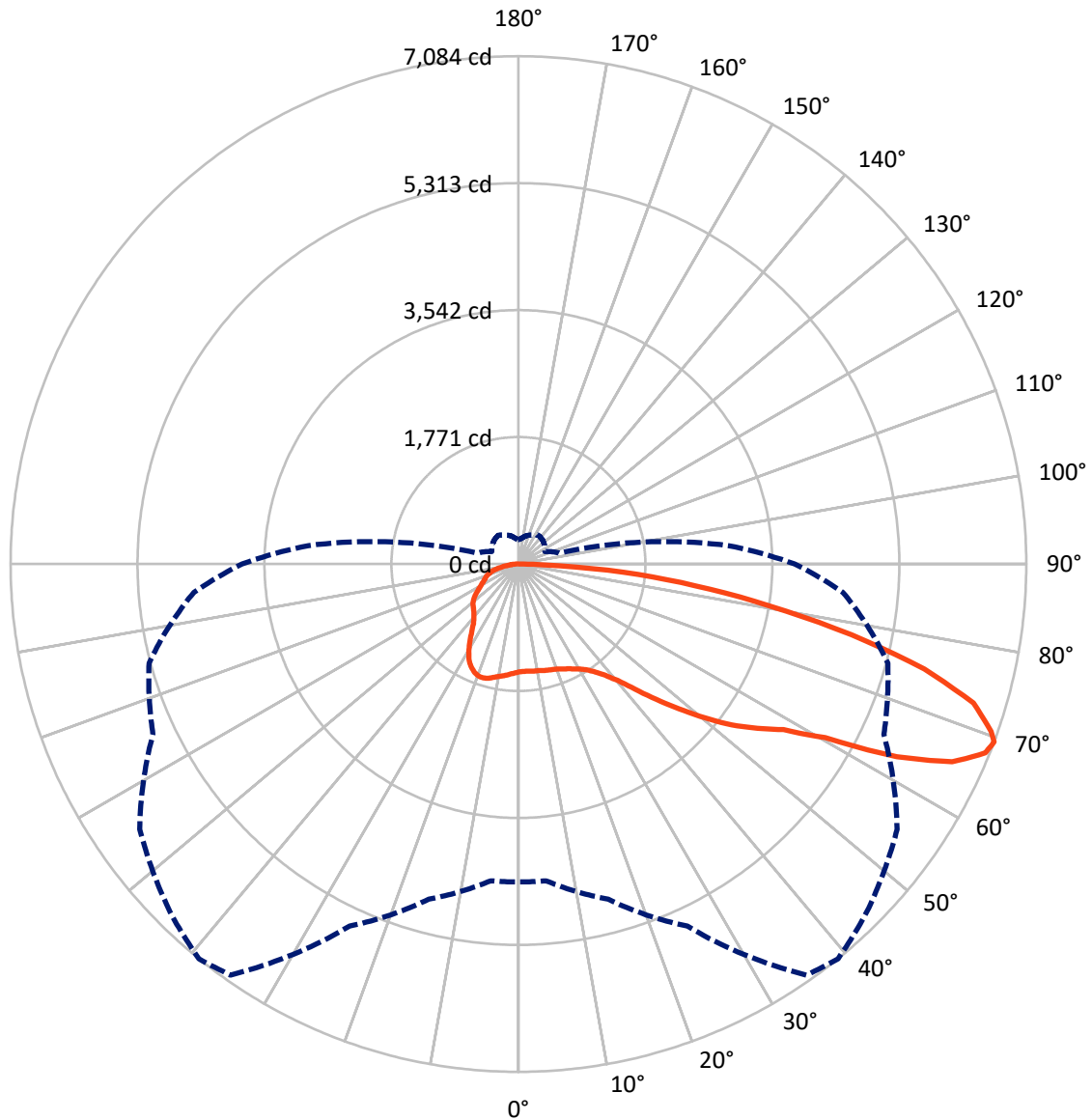


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233569

CATALOG NUMBER: VERD-C02H-D-U-T4-8027

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P233569

CATALOG NUMBER: VERD-C02H-D-U-T4-8027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3025.2	0.0	3025.2
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	9879.8	0.0	9879.8
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	12905.0	0.0	12905.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	1.1
10°-20°	451.5	3.5
20°-30°	760.1	5.9
30°-40°	1101.1	8.5
40°-50°	1779.9	13.8
50°-60°	2605.8	20.2
60°-70°	3261.5	25.3
70°-80°	2331.6	18.1
80°-90°	467.5	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°	12905.0	100.0
0°-180°	12905.0	100.0



REPORT NUMBER: P233569

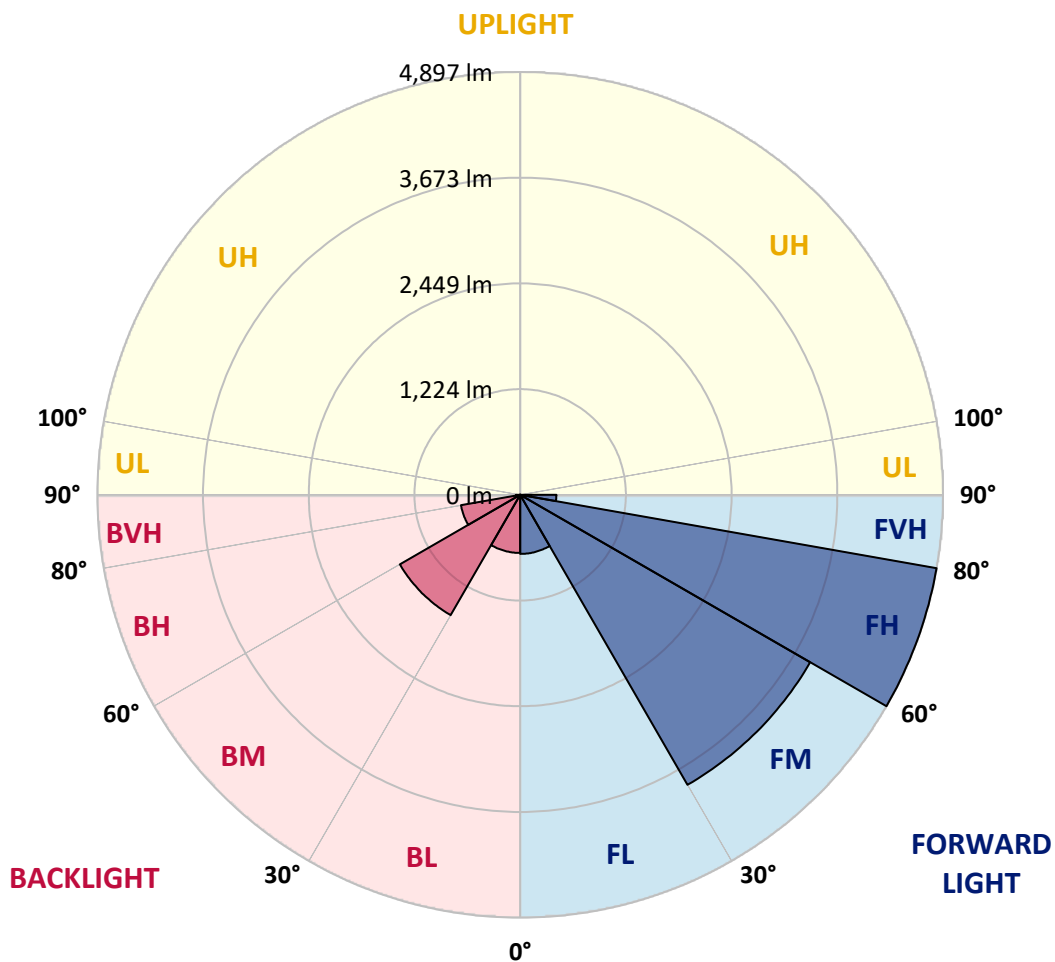
CATALOG NUMBER: VERD-C02H-D-U-T4-8027

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.6	5.3			
FM (30°-60°)	3878.1	30.1			
FH (60°-80°)	4897.4	37.9			G2/5000
FVH (80°-90°)	419.7	3.3			G3/500
BL (0°-30°)	673.0	5.2	B2/1000		
BM (30°-60°)	1608.7	12.5	B2/2500		
BH (60°-80°)	695.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	47.8	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: P233569

CATALOG NUMBER: VERD-C02H-D-U-T4-8027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1529.3	1527.0	1522.2	1503.2	1500.8	1499.6	1502.0	1494.9	1493.7	1496.0	1493.7
5°	1530.5	1528.2	1522.2	1505.6	1503.2	1500.8	1502.0	1496.0	1497.2	1503.2	1503.2
7.5°	1532.9	1530.5	1524.6	1506.7	1511.5	1509.1	1513.9	1505.6	1505.6	1510.3	1511.5
10°	1527.0	1525.8	1522.2	1509.1	1516.3	1511.5	1516.3	1517.5	1522.2	1525.8	1524.6
12.5°	1511.5	1511.5	1511.5	1505.6	1525.8	1524.6	1532.9	1541.2	1553.1	1559.1	1562.6
15°	1502.0	1500.8	1509.1	1507.9	1532.9	1536.5	1550.8	1572.2	1590.0	1605.5	1610.2
17.5°	1511.5	1511.5	1522.2	1519.8	1544.8	1547.2	1562.6	1593.6	1623.3	1653.0	1666.1
20°	1522.2	1523.4	1536.5	1540.0	1563.8	1562.6	1578.1	1616.2	1656.6	1700.6	1723.2
22.5°	1555.5	1554.3	1565.0	1557.9	1585.2	1590.0	1603.1	1636.4	1693.5	1749.4	1786.2
25°	1580.5	1584.0	1594.8	1590.0	1612.6	1618.5	1639.9	1672.1	1739.8	1806.4	1871.8
27.5°	1604.3	1611.4	1619.7	1618.5	1649.5	1656.6	1673.2	1723.2	1801.7	1881.4	1972.9
30°	1639.9	1637.6	1643.5	1654.2	1694.6	1699.4	1719.6	1780.3	1875.4	1978.9	2101.4
32.5°	1687.5	1685.1	1691.1	1700.6	1749.4	1761.2	1788.6	1854.0	1974.1	2099.0	2248.8
35°	1762.4	1768.4	1773.1	1785.0	1832.6	1849.2	1886.1	1969.4	2108.5	2308.3	2522.3
37.5°	2022.9	2009.8	1983.6	1936.1	1949.1	1968.2	2020.5	2139.4	2341.6	2680.5	2876.7
40°	2429.6	2414.1	2332.1	2192.9	2129.9	2134.7	2185.8	2347.5	2623.4	3118.2	3298.9
42.5°	2812.5	2793.5	2696.0	2522.3	2397.5	2383.2	2388.0	2574.7	2932.6	3555.8	3652.1
45°	3174.0	3183.6	3034.9	2901.7	2759.0	2693.6	2673.4	2812.5	3276.3	3935.1	3964.9
47.5°	3520.1	3527.2	3359.6	3231.1	3093.2	3017.1	2977.8	3086.0	3592.7	4242.0	4214.6
50°	3873.3	3892.3	3662.8	3553.4	3426.2	3371.5	3333.4	3404.8	3942.3	4535.7	4451.3
52.5°	4371.6	4291.9	3991.0	3836.4	3746.1	3729.4	3690.2	3748.4	4313.3	4795.0	4619.0
55°	4925.8	4755.7	4439.4	4169.4	4044.6	4044.6	4010.1	4077.9	4696.3	4988.8	4755.7
57.5°	5105.3	5122.0	5012.6	4718.8	4383.5	4357.3	4324.0	4416.8	5024.5	5162.4	4806.9
60°	5419.3	5465.7	5550.1	5305.1	5139.8	4917.5	4715.3	4765.2	5307.5	5305.1	4861.6
62.5°	5575.1	5619.1	5883.1	5751.1	5906.9	5922.3	5544.2	5158.9	5516.8	5376.5	4887.7
65°	5427.6	5458.5	5810.6	5984.2	6436.1	6651.3	6464.6	5688.1	5627.4	5346.8	4790.2
67.5°	4943.6	5001.9	5293.2	5822.5	6908.2	7028.3	6853.5	6414.7	5675.0	5356.3	4711.7
69°	4434.6	4435.8	4840.2	5573.9	7001.0	7084.2	6870.2	6449.2	5625.0	5333.7	4544.0
70°	4148.0	4177.8	4477.4	5358.7	6966.5	6993.8	6829.7	6448.0	5590.6	5326.5	4384.7
72.5°	3237.1	3221.6	3520.1	4481.0	6576.4	6637.1	6456.3	6266.0	5562.0	5019.7	3709.2
75°	2263.1	2310.7	2603.2	3395.2	5666.7	5848.6	5848.6	6019.9	5119.6	4289.5	2681.7
77.5°	1683.9	1691.1	1925.4	2593.7	4559.5	4748.6	4922.2	5066.1	4001.7	2938.6	1198.7
80°	1140.5	1151.2	1365.2	1913.5	3378.6	3552.2	3826.9	3485.6	2380.8	1016.8	136.8
82.5°	718.3	732.6	902.6	1343.8	2408.2	2486.7	2571.1	1968.2	793.2	117.7	86.8
85°	426.9	429.3	544.7	858.6	1468.7	1473.5	1383.1	906.2	212.9	70.2	54.7
87.5°	178.4	187.9	237.8	380.6	430.5	340.1	211.7	72.5	32.1	28.5	19.0
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: P233569

CATALOG NUMBER: VERD-C02H-D-U-T4-8027

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1486.5	1499.6	1497.2	1500.8	1505.6	1515.1	1525.8	1521.0	1527.0	1540.0	1540.0
5°	1499.6	1510.3	1513.9	1521.0	1527.0	1536.5	1543.6	1541.2	1554.3	1573.3	1573.3
7.5°	1510.3	1518.6	1530.5	1538.9	1544.8	1563.8	1571.0	1566.2	1575.7	1598.3	1599.5
10°	1525.8	1534.1	1551.9	1560.3	1572.2	1581.7	1591.2	1590.0	1599.5	1619.7	1623.3
12.5°	1563.8	1569.8	1594.8	1606.6	1606.6	1618.5	1611.4	1599.5	1604.3	1616.2	1618.5
15°	1613.8	1622.1	1654.2	1660.2	1654.2	1656.6	1639.9	1601.9	1582.9	1586.4	1587.6
17.5°	1670.9	1685.1	1722.0	1713.7	1706.5	1688.7	1645.9	1588.8	1531.7	1510.3	1513.9
20°	1731.5	1749.4	1792.2	1774.3	1748.2	1701.8	1632.8	1535.3	1447.3	1396.2	1393.8
22.5°	1801.7	1824.3	1864.7	1833.8	1775.5	1694.6	1588.8	1469.9	1358.1	1278.4	1273.7
25°	1898.0	1923.0	1937.2	1875.4	1780.3	1668.5	1525.8	1380.7	1240.4	1145.2	1138.1
27.5°	2007.4	2020.5	1992.0	1899.2	1757.7	1612.6	1447.3	1267.7	1113.1	1034.6	1023.9
30°	2128.7	2118.0	2028.8	1887.3	1699.4	1524.6	1324.8	1123.8	1000.1	937.1	927.6
32.5°	2269.0	2235.7	2057.4	1854.0	1622.1	1409.2	1191.6	1032.2	933.5	870.5	865.8
35°	2499.8	2404.6	2103.7	1802.9	1519.8	1273.7	1069.1	953.8	876.5	798.0	786.1
37.5°	2833.9	2654.4	2171.5	1755.3	1409.2	1142.8	976.4	890.7	822.9	734.9	718.3
40°	3181.2	2948.1	2283.3	1703.0	1305.8	1046.5	925.2	864.6	798.0	714.7	692.1
42.5°	3498.7	3227.6	2414.1	1637.6	1197.6	969.2	900.2	857.4	790.8	712.3	694.5
45°	3786.5	3490.4	2548.5	1562.6	1078.6	907.4	880.0	844.4	776.6	701.6	687.4
47.5°	4029.1	3714.0	2684.1	1475.8	964.5	869.3	858.6	820.6	757.5	685.0	673.1
50°	4230.1	3874.5	2761.4	1384.3	870.5	840.8	827.7	780.1	715.9	648.1	641.0
52.5°	4378.7	3974.4	2831.5	1335.5	796.8	794.4	786.1	739.7	677.9	607.7	593.4
55°	4482.2	4056.5	2800.6	1297.4	718.3	736.1	731.4	702.8	650.5	568.5	556.6
57.5°	4488.1	4063.6	2734.0	1071.5	641.0	666.0	674.3	679.0	620.8	548.2	534.0
60°	4482.2	4011.3	2610.4	786.1	566.1	595.8	626.7	626.7	586.3	514.9	504.2
62.5°	4454.8	3907.8	2322.6	560.1	506.6	545.9	586.3	568.5	534.0	476.9	466.2
65°	4330.0	3735.4	1817.1	456.7	481.6	517.3	536.3	511.4	467.4	407.9	403.1
67.5°	4102.8	3340.5	1051.3	418.6	460.2	492.3	507.8	469.7	428.1	371.0	368.7
69°	3853.1	2941.0	592.2	409.1	447.1	475.7	488.8	447.1	406.7	352.0	341.3
70°	3629.5	2584.2	385.3	400.8	434.1	465.0	474.5	431.7	393.6	337.7	330.6
72.5°	2749.5	1556.7	259.3	366.3	398.4	422.2	436.4	396.0	353.2	297.3	283.0
75°	1502.0	423.4	228.3	314.0	354.4	386.5	390.1	338.9	277.1	220.0	214.1
77.5°	292.5	145.1	196.2	259.3	281.8	319.9	317.5	283.0	240.2	186.7	179.6
80°	110.6	104.7	164.1	185.5	198.6	239.0	253.3	228.3	199.8	127.2	109.4
82.5°	74.9	77.3	122.5	109.4	121.3	141.5	178.4	173.6	158.2	86.8	77.3
85°	52.3	60.7	67.8	46.4	59.5	89.2	117.7	114.2	97.5	60.7	54.7
87.5°	15.5	16.6	19.0	23.8	36.9	66.6	96.3	79.7	53.5	45.2	39.2
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)