

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: P233955

Luminaire Tested: **VERD-G-C02-D-U-T4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C02-D-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1175mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15119 lumens
Efficiency: N/A
Efficacy: 109.6 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 - G4

Input Watts (W): 138
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

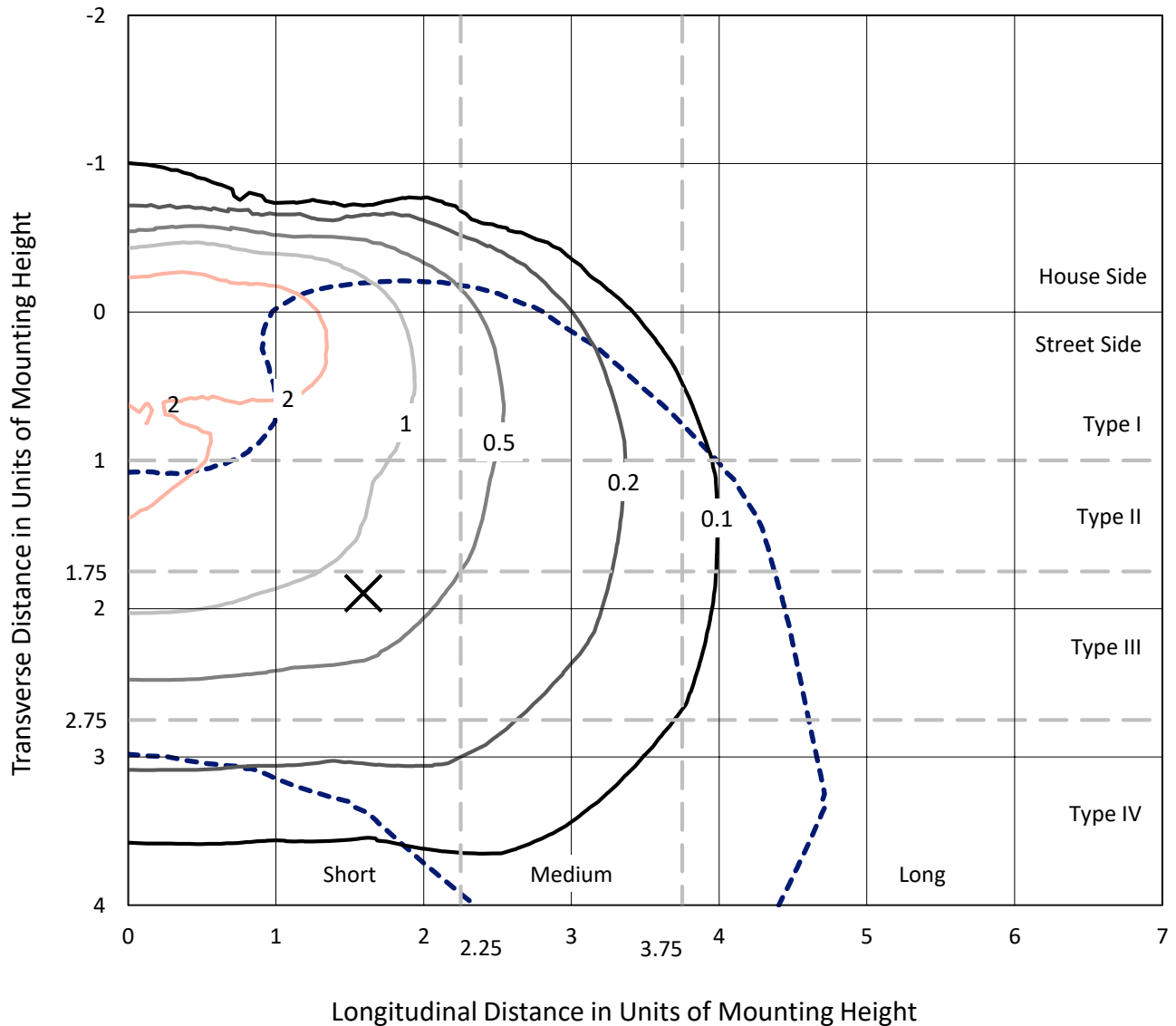


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

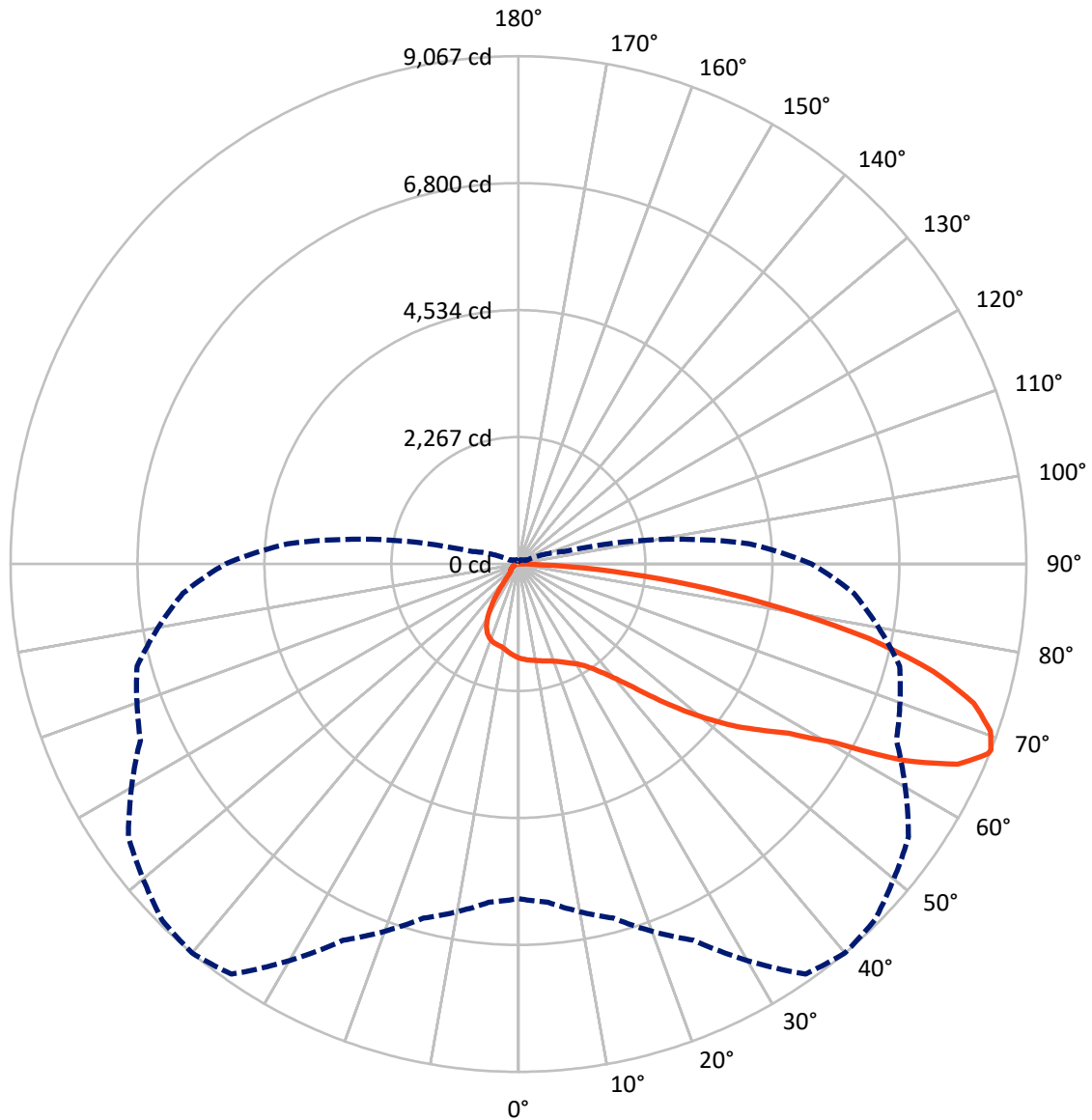


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2452.6	0.0	2452.6
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	12666.4	0.0	12666.4
	% Fixture	83.8	0.0	83.8
Total	Lumens	15119.0	0.0	15119.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.4	1.1
10°-20°	477.4	3.2
20°-30°	801.2	5.3
30°-40°	1186.6	7.8
40°-50°	2007.4	13.3
50°-60°	3063.6	20.3
60°-70°	4011.5	26.5
70°-80°	2884.0	19.1
80°-90°	527.9	3.5
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°	15119.0	100.0
0°-180°	15119.0	100.0



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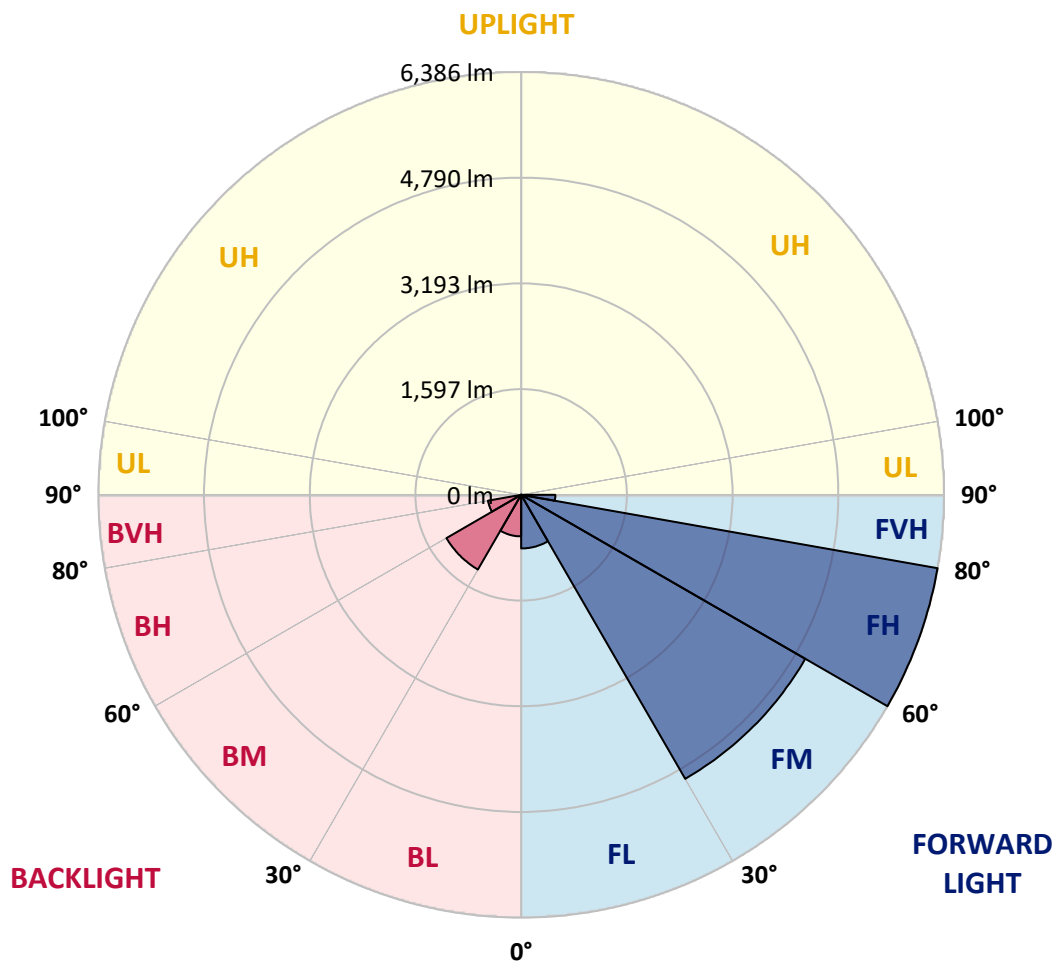
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.5	5.4			
FM (30°-60°)	4954.0	32.8			
FH (60°-80°)	6386.5	42.2			G3/7500
FVH (80°-90°)	515.4	3.4			G4/750
BL (0°-30°)	627.5	4.2	B2/1000		
BM (30°-60°)	1303.6	8.6	B2/2500		
BH (60°-80°)	509.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0
2.5°	1733.2	1737.0	1731.9	1719.3	1705.3	1697.7	1696.5	1695.2	1688.9	1680.0	1667.4
5°	1750.9	1752.2	1747.1	1737.0	1724.3	1721.8	1718.0	1719.3	1715.5	1706.6	1692.7
7.5°	1758.5	1761.0	1754.7	1744.6	1734.5	1734.5	1733.2	1737.0	1734.5	1730.7	1714.2
10°	1756.0	1759.8	1756.0	1752.2	1748.4	1752.2	1749.6	1758.5	1759.8	1759.8	1740.8
12.5°	1752.2	1757.2	1758.5	1762.3	1768.6	1772.4	1777.5	1796.5	1805.3	1811.7	1796.5
15°	1756.0	1758.5	1768.6	1775.0	1787.6	1796.5	1807.9	1839.5	1854.7	1872.4	1864.9
17.5°	1772.4	1778.8	1794.0	1800.3	1812.9	1819.3	1833.2	1872.4	1902.8	1934.5	1939.5
20°	1807.9	1811.7	1837.0	1839.5	1845.9	1852.2	1867.4	1910.4	1956.0	2001.6	2014.2
22.5°	1847.1	1856.0	1880.0	1876.2	1888.9	1891.4	1905.4	1952.2	2015.5	2071.2	2099.1
25°	1887.6	1895.2	1919.3	1921.8	1937.0	1947.1	1963.6	2009.2	2090.2	2161.1	2210.5
27.5°	1921.8	1937.0	1959.8	1962.3	1991.5	2004.1	2028.2	2080.1	2177.6	2264.9	2345.9
30°	1985.1	1988.9	2010.4	2018.0	2057.3	2068.7	2096.5	2162.4	2281.4	2390.3	2516.9
32.5°	2063.6	2062.4	2082.6	2095.3	2143.4	2163.6	2199.1	2275.0	2406.7	2542.2	2722.0
35°	2207.9	2195.3	2207.9	2220.6	2276.3	2297.8	2335.8	2449.8	2604.2	2834.6	3056.2
37.5°	2539.6	2520.7	2494.1	2430.8	2444.7	2472.5	2528.2	2682.7	2910.6	3338.5	3552.5
40°	3114.4	3072.6	2961.2	2794.1	2695.4	2697.9	2749.8	2952.4	3286.6	3915.8	4076.6
42.5°	3634.8	3605.6	3471.4	3242.3	3014.4	3001.7	3019.5	3256.2	3696.8	4451.3	4534.9
45°	4124.7	4138.6	3943.7	3763.9	3491.7	3408.1	3386.6	3580.3	4151.3	4928.6	4936.2
47.5°	4577.9	4600.7	4365.2	4195.6	3927.2	3855.0	3787.9	3920.9	4580.5	5335.0	5273.0
50°	5065.4	5083.1	4756.4	4617.2	4391.8	4324.7	4274.1	4332.3	5019.8	5712.3	5573.0
52.5°	5738.9	5640.1	5229.9	4999.5	4799.5	4794.4	4755.2	4791.9	5519.9	6051.6	5800.9
55°	6533.9	6275.7	5840.2	5471.8	5214.8	5228.7	5181.8	5242.6	6014.9	6342.8	6012.3
57.5°	6815.0	6808.7	6606.1	6252.9	5731.3	5699.6	5618.6	5687.0	6442.8	6615.0	6161.7
60°	7204.9	7239.1	7261.9	7049.2	6747.9	6460.5	6189.6	6183.3	6841.6	6863.1	6235.2
62.5°	7456.9	7488.5	7665.8	7637.9	7824.0	7729.1	7420.2	6735.2	7146.7	7023.9	6263.0
65°	6985.9	7064.4	7511.3	7851.9	8486.2	8619.1	8574.8	7583.5	7354.3	7070.7	6211.1
67.5°	6133.9	6236.4	6726.4	7522.7	8896.3	9044.5	8963.4	8438.0	7444.2	7050.5	6068.0
68°	5974.4	6063.0	6544.1	7412.6	8938.1	9067.3	8993.8	8501.3	7448.0	7048.0	6013.6
70°	5207.2	5279.3	5749.0	6847.9	8821.7	8941.9	8931.8	8560.8	7415.1	6969.5	5647.7
72.5°	4039.9	4112.0	4528.6	5679.4	8283.6	8503.9	8495.0	8322.8	7354.3	6569.4	4734.9
75°	2920.7	3000.5	3380.3	4364.0	7168.2	7653.1	7750.6	7915.2	6722.6	5528.7	3368.9
77.5°	2109.2	2167.4	2495.3	3296.7	5855.4	6409.9	6607.4	6773.2	5502.1	4029.8	1602.8
80°	1406.6	1448.3	1764.8	2451.0	4410.8	4737.5	4950.2	4672.9	3130.9	1457.2	173.4
82.5°	866.0	892.5	1142.0	1719.3	3051.1	3153.7	3154.9	2492.8	1009.0	139.3	93.7
85°	464.6	473.5	620.4	938.1	1611.6	1688.9	1658.5	1047.0	203.8	74.7	50.6
87.5°	74.7	81.0	195.0	352.0	497.5	383.6	245.6	77.2	20.3	11.4	7.6
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°	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0	1680.0
2.5°	1673.7	1669.9	1659.8	1654.7	1642.0	1645.8	1645.8	1635.7	1640.8	1661.0	1658.5
5°	1688.9	1690.1	1666.1	1653.4	1625.6	1618.0	1606.6	1591.4	1590.1	1604.1	1605.3
7.5°	1701.5	1707.9	1673.7	1648.4	1610.4	1583.8	1561.0	1534.4	1528.1	1537.0	1537.0
10°	1721.8	1728.1	1685.1	1649.6	1593.9	1550.9	1511.6	1477.4	1463.5	1463.5	1464.8
12.5°	1775.0	1771.2	1721.8	1667.4	1601.5	1533.2	1471.1	1425.5	1392.6	1391.4	1386.3
15°	1848.4	1834.5	1786.4	1704.1	1619.2	1531.9	1445.8	1374.9	1317.9	1302.7	1296.4
17.5°	1926.9	1909.2	1850.9	1750.9	1647.1	1530.6	1416.7	1317.9	1223.0	1186.3	1174.9
20°	2011.7	1990.2	1930.7	1805.3	1674.9	1521.8	1373.6	1235.6	1106.5	1036.9	1019.1
22.5°	2105.4	2087.7	2015.5	1861.1	1693.9	1502.8	1306.5	1131.8	967.2	867.2	859.6
25°	2226.9	2210.5	2104.1	1910.4	1695.2	1467.3	1217.9	998.9	792.5	674.8	650.7
27.5°	2372.5	2343.4	2175.0	1940.8	1674.9	1405.3	1102.7	821.6	588.7	490.0	487.4
30°	2530.8	2477.6	2232.0	1948.4	1629.4	1306.5	944.5	603.9	417.8	350.7	350.7
32.5°	2716.9	2619.4	2290.2	1935.7	1554.7	1169.8	722.9	419.1	287.4	255.7	255.7
35°	2989.1	2838.4	2364.9	1904.1	1449.6	981.2	514.0	277.3	226.6	222.8	222.8
37.5°	3419.5	3168.9	2466.2	1850.9	1305.3	748.2	334.2	214.0	216.5	216.5	215.2
40°	3877.8	3551.2	2605.5	1766.1	1124.2	516.5	219.0	202.6	206.4	208.9	207.6
42.5°	4291.8	3914.5	2757.4	1652.2	910.3	325.4	200.0	195.0	192.4	195.0	196.2
45°	4650.1	4229.8	2910.6	1504.0	672.3	212.7	195.0	183.6	176.0	177.2	178.5
47.5°	4956.5	4477.9	3014.4	1348.3	445.6	188.6	188.6	168.4	160.8	160.8	160.8
50°	5224.9	4698.2	3077.7	1162.2	265.9	186.1	177.2	154.5	146.9	145.6	146.9
52.5°	5419.8	4852.7	3070.1	935.6	178.5	179.8	162.1	141.8	132.9	135.5	136.7
55°	5574.3	4950.2	3003.0	684.9	167.1	168.4	150.7	127.9	121.5	122.8	122.8
57.5°	5671.8	4974.2	2866.3	445.6	163.3	150.7	135.5	113.9	106.3	106.3	106.3
60°	5703.4	4961.5	2680.2	284.9	162.1	135.5	122.8	102.5	95.0	95.0	95.0
62.5°	5676.8	4888.1	2364.9	205.1	150.7	126.6	111.4	91.2	83.6	81.0	81.0
65°	5581.9	4691.9	1823.1	169.6	135.5	116.5	101.3	82.3	72.2	68.4	67.1
67.5°	5304.6	4266.5	1060.9	159.5	122.8	106.3	93.7	74.7	63.3	57.0	55.7
68°	5232.5	4139.9	872.3	158.3	122.8	105.1	92.4	72.2	60.8	54.4	53.2
70°	4715.9	3339.8	250.7	150.7	120.3	101.3	84.8	65.8	54.4	46.8	45.6
72.5°	3551.2	1957.3	157.0	134.2	119.0	89.9	82.3	65.8	48.1	40.5	38.0
75°	1982.6	445.6	132.9	100.0	111.4	88.6	81.0	59.5	43.0	32.9	31.7
77.5°	407.7	129.1	113.9	69.6	84.8	77.2	68.4	50.6	39.2	25.3	24.1
80°	115.2	96.2	101.3	50.6	48.1	54.4	50.6	44.3	29.1	19.0	19.0
82.5°	74.7	70.9	91.2	34.2	25.3	25.3	32.9	26.6	25.3	15.2	15.2
85°	45.6	59.5	44.3	15.2	12.7	10.1	11.4	11.4	15.2	10.1	10.1
87.5°	6.3	6.3	6.3	6.3	6.3	5.1	3.8	3.8	3.8	5.1	5.1
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)