

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: P233803

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233803
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-C02H-D-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15154 lumens
Efficiency: N/A
Efficacy: 126.3 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

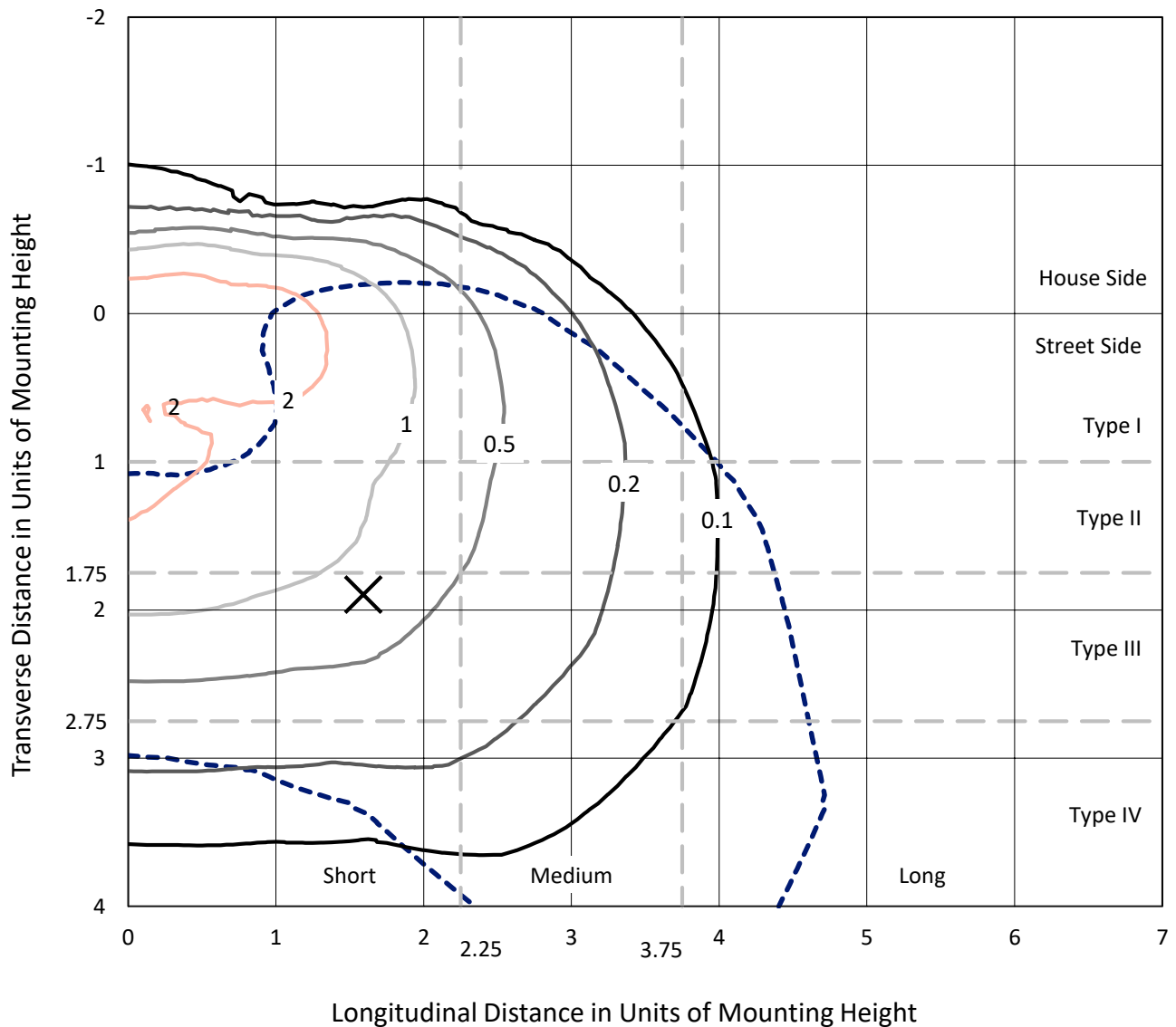
Input Watts (W): 120
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P233803
 CATALOG NUMBER: VERD-C02H-D-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

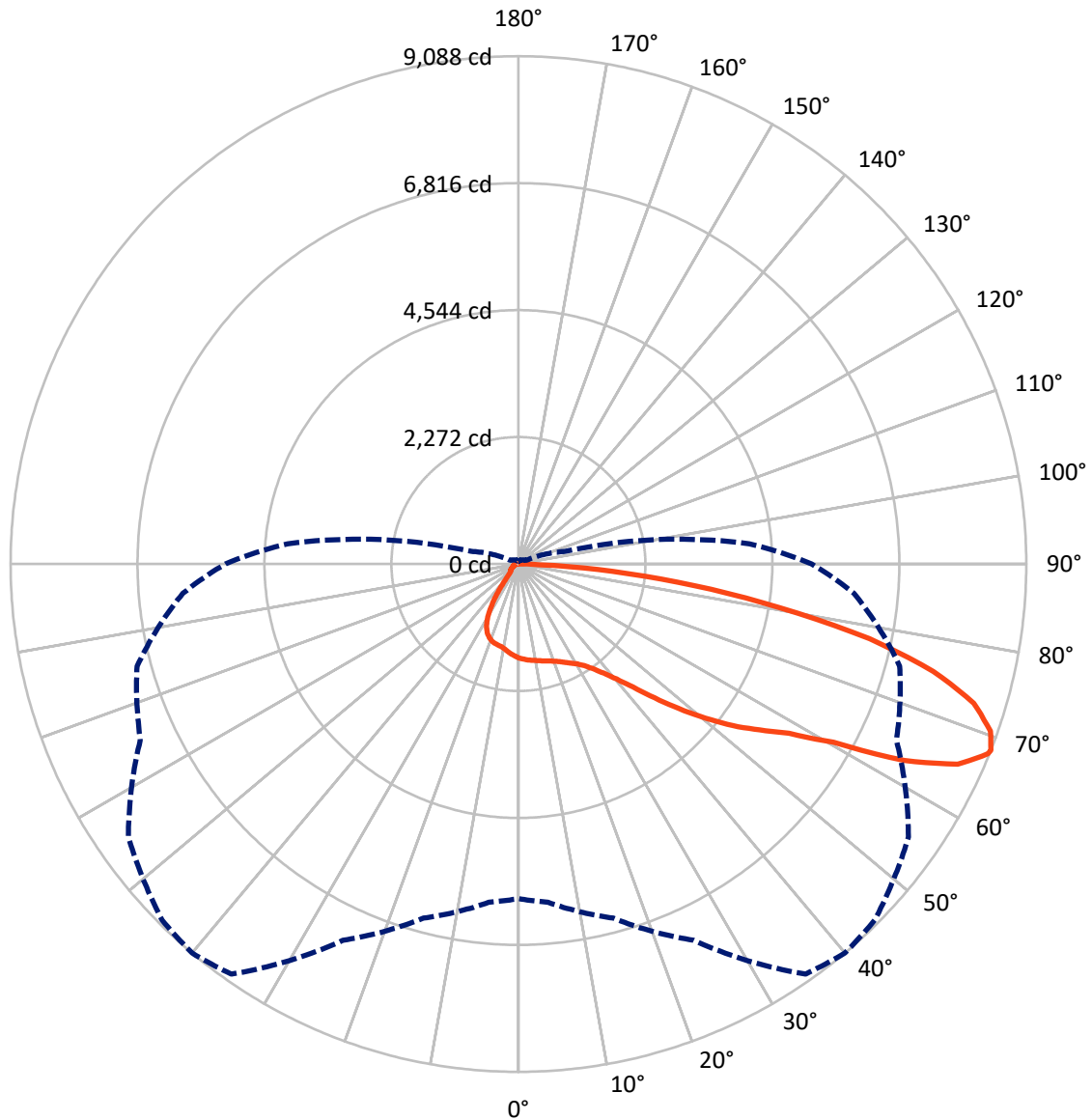


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233803

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

Luminous Intensity Polar Plot



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

REPORT NUMBER: P233803

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.3	0.0	2458.3
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	12695.7	0.0	12695.7
	% Fixture	83.8	0.0	83.8
Total	Lumens	15154.0	0.0	15154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	1.1
10°-20°	478.5	3.2
20°-30°	803.1	5.3
30°-40°	1189.3	7.8
40°-50°	2012.0	13.3
50°-60°	3070.7	20.3
60°-70°	4020.7	26.5
70°-80°	2890.7	19.1
80°-90°	529.2	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°	15154.0	100.0
0°-180°	15154.0	100.0

Coefficient of Utilization



REPORT NUMBER: P233803

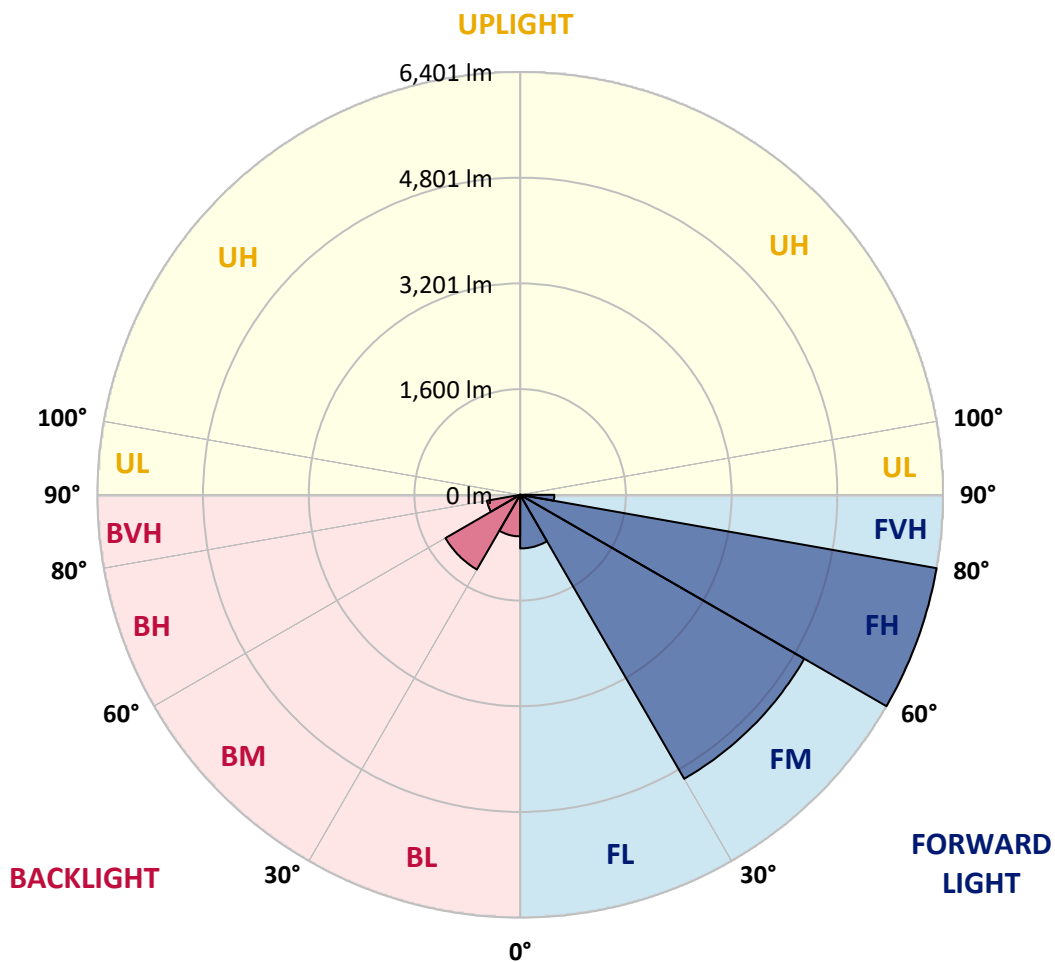
CATALOG NUMBER: VERD-C02H-D-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	812.4	5.4			
FM	(30°-60°)	4965.5	32.8			
FH	(60°-80°)	6401.3	42.2			G3/7500
FVH	(80°-90°)	516.6	3.4			G4/750
BL	(0°-30°)	629.0	4.2	B2/1000		
BM	(30°-60°)	1306.6	8.6	B2/2500		
BH	(60°-80°)	510.2	3.4	B2/1000		G2/1000
BVH	(80°-90°)	12.6	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





REPORT NUMBER: P233803

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9
2.5°	1737.2	1741.0	1735.9	1723.2	1709.3	1701.7	1700.4	1699.1	1692.8	1683.9	1671.2
5°	1755.0	1756.2	1751.2	1741.0	1728.3	1725.8	1722.0	1723.2	1719.4	1710.6	1696.6
7.5°	1762.6	1765.1	1758.8	1748.6	1738.5	1738.5	1737.2	1741.0	1738.5	1734.7	1718.2
10°	1760.0	1763.8	1760.0	1756.2	1752.4	1756.2	1753.7	1762.6	1763.8	1763.8	1744.8
12.5°	1756.2	1761.3	1762.6	1766.4	1772.7	1776.5	1781.6	1800.6	1809.5	1815.9	1800.6
15°	1760.0	1762.6	1772.7	1779.1	1791.8	1800.6	1812.1	1843.8	1859.0	1876.8	1869.2
17.5°	1776.5	1782.9	1798.1	1804.5	1817.1	1823.5	1837.4	1876.8	1907.2	1939.0	1944.0
20°	1812.1	1815.9	1841.3	1843.8	1850.1	1856.5	1871.7	1914.9	1960.5	2006.2	2018.9
22.5°	1851.4	1860.3	1884.4	1880.6	1893.3	1895.8	1909.8	1956.7	2020.2	2076.0	2103.9
25°	1892.0	1899.6	1923.7	1926.3	1941.5	1951.7	1968.1	2013.8	2095.0	2166.1	2215.6
27.5°	1926.3	1941.5	1964.3	1966.9	1996.1	2008.8	2032.9	2084.9	2182.6	2270.2	2351.4
30°	1989.7	1993.5	2015.1	2022.7	2062.1	2073.5	2101.4	2167.4	2286.7	2395.8	2522.7
32.5°	2068.4	2067.1	2087.4	2100.1	2148.3	2168.6	2204.2	2280.3	2412.3	2548.1	2728.3
35°	2213.1	2200.4	2213.1	2225.7	2281.6	2303.2	2341.2	2455.4	2610.2	2841.2	3063.3
37.5°	2545.5	2526.5	2499.8	2436.4	2450.4	2478.3	2534.1	2688.9	2917.3	3346.2	3560.7
40°	3121.6	3079.8	2968.1	2800.6	2701.6	2704.1	2756.2	2959.2	3294.2	3924.9	4086.0
42.5°	3643.2	3614.0	3479.5	3249.8	3021.4	3008.7	3026.5	3263.8	3705.3	4461.6	4545.4
45°	4134.3	4148.2	3952.8	3772.6	3499.8	3416.0	3394.5	3588.6	4160.9	4940.0	4947.7
47.5°	4588.5	4611.4	4375.4	4205.3	3936.3	3864.0	3796.7	3930.0	4591.1	5347.4	5285.2
50°	5077.1	5094.9	4767.5	4627.9	4402.0	4334.7	4284.0	4342.4	5031.4	5725.5	5585.9
52.5°	5752.2	5653.2	5242.0	5011.1	4810.6	4805.5	4766.2	4803.0	5532.6	6065.6	5814.3
55°	6549.1	6290.2	5853.7	5484.4	5226.8	5240.8	5193.8	5254.7	6028.8	6357.5	6026.3
57.5°	6830.8	6824.4	6621.4	6267.4	5744.6	5712.8	5631.6	5700.1	6457.7	6630.3	6176.0
60°	7221.6	7255.9	7278.7	7065.5	6763.5	6475.5	6203.9	6197.6	6857.4	6879.0	6249.6
62.5°	7474.1	7505.9	7683.5	7655.6	7842.1	7747.0	7437.3	6750.8	7163.2	7040.2	6277.5
65°	7002.1	7080.8	7528.7	7870.1	8505.8	8639.0	8594.6	7601.0	7371.4	7087.1	6225.5
67.5°	6148.1	6250.9	6742.0	7540.1	8916.9	9065.4	8984.2	8457.6	7461.5	7066.8	6082.1
68°	5988.2	6077.0	6559.2	7429.7	8958.8	9088.2	9014.7	8521.0	7465.3	7064.3	6027.5
70°	5219.2	5291.5	5762.3	6863.8	8842.1	8962.6	8952.5	8580.7	7432.3	6985.6	5660.8
72.5°	4049.2	4121.6	4539.0	5692.5	8302.8	8523.6	8514.7	8342.1	7371.4	6584.6	4745.9
75°	2927.5	3007.4	3388.1	4374.1	7184.8	7670.8	7768.5	7933.5	6738.1	5541.5	3376.7
77.5°	2114.1	2172.4	2501.1	3304.4	5868.9	6424.7	6622.7	6788.9	5514.9	4039.1	1606.5
80°	1409.8	1451.7	1768.9	2456.7	4421.0	4748.4	4961.6	4683.7	3138.1	1460.6	173.8
82.5°	868.0	894.6	1144.6	1723.2	3058.2	3161.0	3162.2	2498.6	1011.4	139.6	93.9
85°	465.7	474.6	621.8	940.3	1615.4	1692.8	1662.3	1049.4	204.3	74.9	50.8
87.5°	74.9	81.2	195.4	352.8	498.7	384.5	246.2	77.4	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



REPORT NUMBER: P233803

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9	1683.9
2.5°	1677.6	1673.8	1663.6	1658.5	1645.8	1649.6	1649.6	1639.5	1644.6	1664.9	1662.3
5°	1692.8	1694.1	1669.9	1657.3	1629.3	1621.7	1610.3	1595.1	1593.8	1607.8	1609.0
7.5°	1705.5	1711.8	1677.6	1652.2	1614.1	1587.5	1564.6	1538.0	1531.6	1540.5	1540.5
10°	1725.8	1732.1	1689.0	1653.4	1597.6	1554.5	1515.1	1480.9	1466.9	1466.9	1468.2
12.5°	1779.1	1775.3	1725.8	1671.2	1605.2	1536.7	1474.5	1428.8	1395.8	1394.6	1389.5
15°	1852.7	1838.7	1790.5	1708.0	1623.0	1535.4	1449.1	1378.1	1321.0	1305.8	1299.4
17.5°	1931.3	1913.6	1855.2	1755.0	1650.9	1534.2	1420.0	1321.0	1225.8	1189.0	1177.6
20°	2016.4	1994.8	1935.2	1809.5	1678.8	1525.3	1376.8	1238.5	1109.1	1039.3	1021.5
22.5°	2110.3	2092.5	2020.2	1865.4	1697.9	1506.2	1309.6	1134.4	969.5	869.2	861.6
25°	2232.1	2215.6	2109.0	1914.9	1699.1	1470.7	1220.7	1001.2	794.4	676.4	652.2
27.5°	2378.0	2348.8	2180.1	1945.3	1678.8	1408.5	1105.3	823.6	590.1	491.1	488.5
30°	2536.6	2483.3	2237.2	1952.9	1633.1	1309.6	946.6	605.3	418.8	351.5	351.5
32.5°	2723.2	2625.5	2295.5	1940.2	1558.3	1172.5	724.6	420.0	288.1	256.3	256.3
35°	2996.0	2845.0	2370.4	1908.5	1453.0	983.4	515.2	277.9	227.1	223.3	223.3
37.5°	3427.4	3176.2	2471.9	1855.2	1308.3	750.0	335.0	214.5	217.0	217.0	215.7
40°	3886.8	3559.4	2611.5	1770.2	1126.8	517.7	219.5	203.0	206.8	209.4	208.1
42.5°	4301.8	3923.6	2763.8	1656.0	912.4	326.1	200.5	195.4	192.9	195.4	196.7
45°	4660.9	4239.6	2917.3	1507.5	673.8	213.2	195.4	184.0	176.4	177.7	178.9
47.5°	4968.0	4488.3	3021.4	1351.4	446.7	189.1	189.1	168.8	161.2	161.2	161.2
50°	5237.0	4709.1	3084.8	1164.9	266.5	186.5	177.7	154.8	147.2	145.9	147.2
52.5°	5432.4	4863.9	3077.2	937.8	178.9	180.2	162.4	142.1	133.2	135.8	137.0
55°	5587.2	4961.6	3010.0	686.5	167.5	168.8	151.0	128.2	121.8	123.1	123.1
57.5°	5684.9	4985.7	2872.9	446.7	163.7	151.0	135.8	114.2	106.6	106.6	106.6
60°	5716.6	4973.0	2686.4	285.5	162.4	135.8	123.1	102.8	95.2	95.2	95.2
62.5°	5690.0	4899.4	2370.4	205.6	151.0	126.9	111.7	91.4	83.8	81.2	81.2
65°	5594.8	4702.7	1827.3	170.0	135.8	116.7	101.5	82.5	72.3	68.5	67.3
67.5°	5316.9	4276.4	1063.4	159.9	123.1	106.6	93.9	74.9	63.4	57.1	55.8
68°	5244.6	4149.5	874.3	158.6	123.1	105.3	92.6	72.3	60.9	54.6	53.3
70°	4726.9	3347.5	251.3	151.0	120.6	101.5	85.0	66.0	54.6	47.0	45.7
72.5°	3559.4	1961.8	157.4	134.5	119.3	90.1	82.5	66.0	48.2	40.6	38.1
75°	1987.2	446.7	133.2	100.2	111.7	88.8	81.2	59.6	43.1	33.0	31.7
77.5°	408.6	129.4	114.2	69.8	85.0	77.4	68.5	50.8	39.3	25.4	24.1
80°	115.5	96.4	101.5	50.8	48.2	54.6	50.8	44.4	29.2	19.0	19.0
82.5°	74.9	71.1	91.4	34.3	25.4	25.4	33.0	26.6	25.4	15.2	15.2
85°	45.7	59.6	44.4	15.2	12.7	10.2	11.4	11.4	15.2	10.2	10.2
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)