

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: P233951

Luminaire Tested: **VERD-G-C02-D-U-T4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233951
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-T4-7030-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1175mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14713 lumens
Efficiency: N/A
Efficacy: 106.6 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

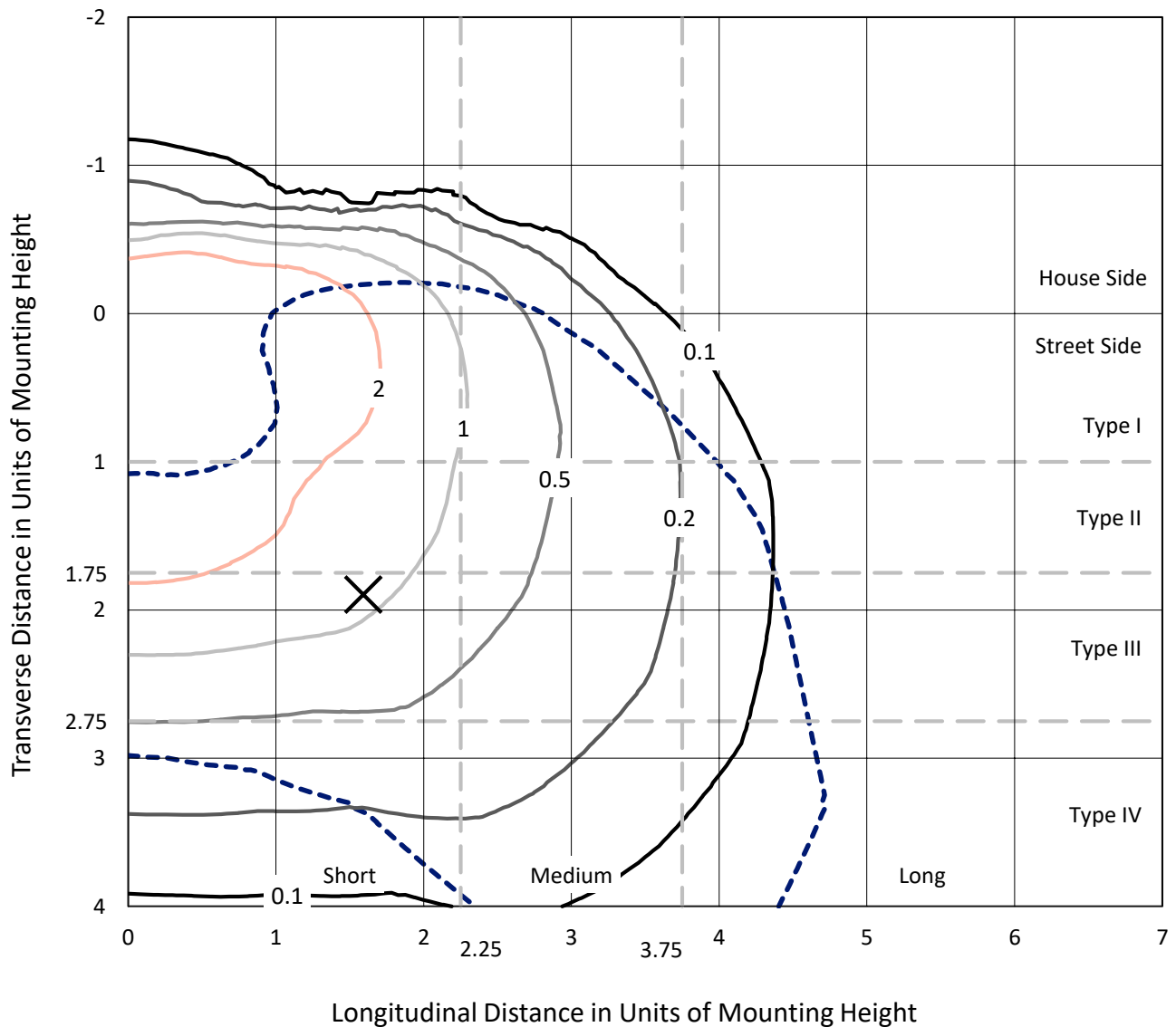


REPORT NUMBER: P233951

CATALOG NUMBER: VERD-G-C02-D-U-T4-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

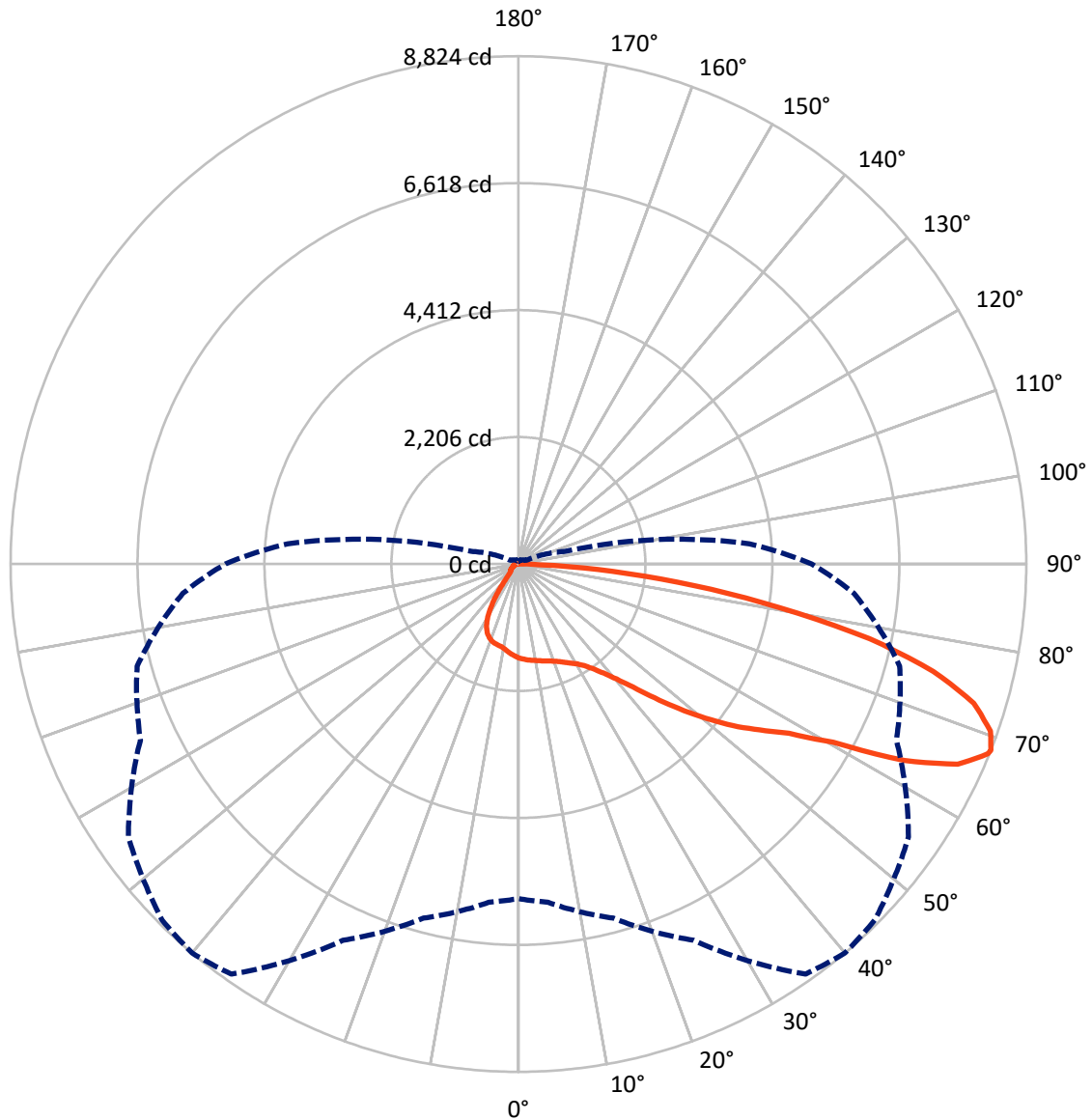


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233951

CATALOG NUMBER: VERD-G-C02-D-U-T4-7030-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P233951

CATALOG NUMBER: VERD-G-C02-D-U-T4-7030-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2386.7	0.0	2386.7
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	12326.3	0.0	12326.3
	% Fixture	83.8	0.0	83.8
Total	Lumens	14713.0	0.0	14713.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.1
10°-20°	464.6	3.2
20°-30°	779.7	5.3
30°-40°	1154.7	7.8
40°-50°	1953.5	13.3
50°-60°	2981.4	20.3
60°-70°	3903.7	26.5
70°-80°	2806.6	19.1
80°-90°	513.8	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°	14713.0	100.0
0°-180°	14713.0	100.0



REPORT NUMBER: P233951

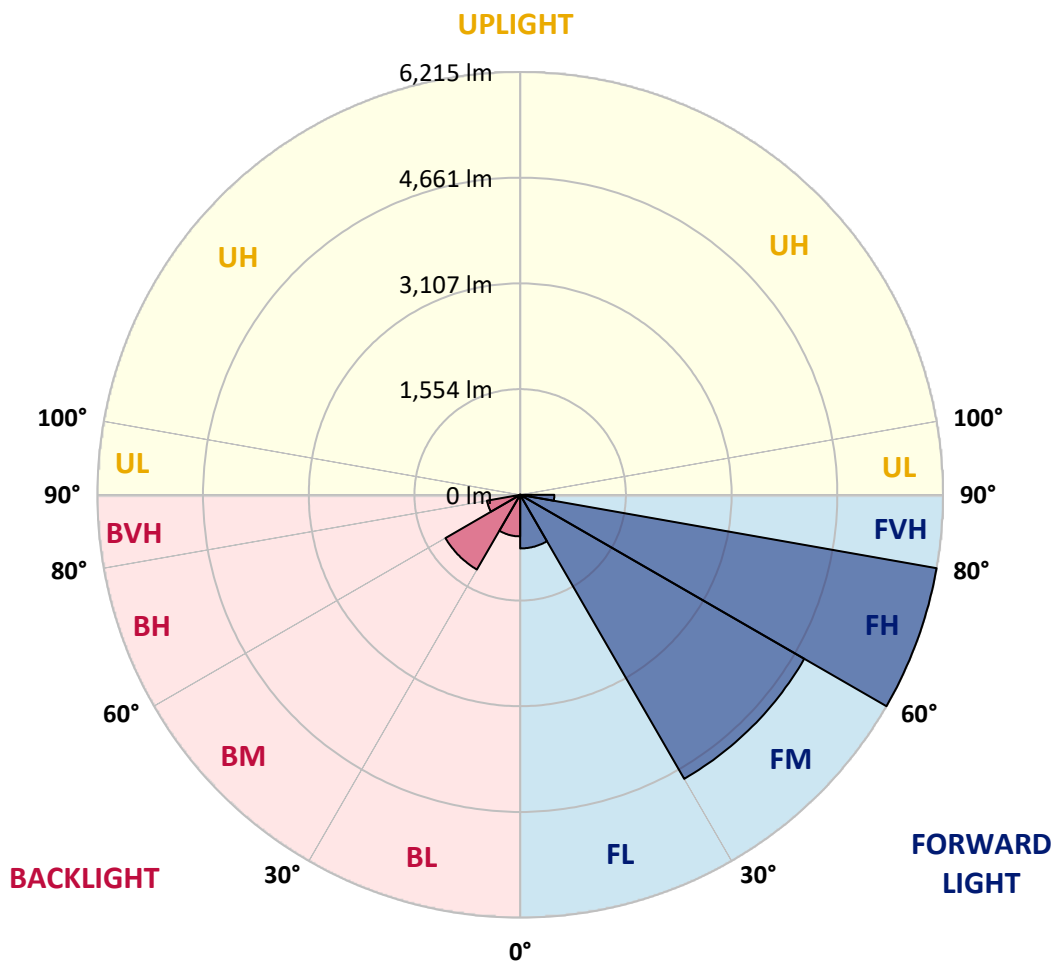
CATALOG NUMBER: VERD-G-C02-D-U-T4-7030-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	788.7	5.4			
FM	(30°-60°)	4821.0	32.8			
FH	(60°-80°)	6215.0	42.2			G3/7500
FVH	(80°-90°)	501.6	3.4			G4/750
BL	(0°-30°)	610.7	4.2	B2/1000		
BM	(30°-60°)	1268.6	8.6	B2/2500		
BH	(60°-80°)	495.3	3.4	B1/500		G1/500
BVH	(80°-90°)	12.2	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: P233951

CATALOG NUMBER: VERD-G-C02-D-U-T4-7030-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1686.6	1690.3	1685.4	1673.1	1659.5	1652.1	1650.9	1649.7	1643.5	1634.9	1622.6
5°	1703.9	1705.1	1700.2	1690.3	1678.0	1675.6	1671.9	1673.1	1669.4	1660.8	1647.2
7.5°	1711.3	1713.7	1707.6	1697.7	1687.9	1687.9	1686.6	1690.3	1687.9	1684.2	1668.2
10°	1708.8	1712.5	1708.8	1705.1	1701.4	1705.1	1702.7	1711.3	1712.5	1712.5	1694.0
12.5°	1705.1	1710.1	1711.3	1715.0	1721.1	1724.8	1729.8	1748.2	1756.9	1763.0	1748.2
15°	1708.8	1711.3	1721.1	1727.3	1739.6	1748.2	1759.3	1790.1	1804.9	1822.2	1814.8
17.5°	1724.8	1731.0	1745.8	1751.9	1764.3	1770.4	1784.0	1822.2	1851.7	1882.5	1887.5
20°	1759.3	1763.0	1787.7	1790.1	1796.3	1802.5	1817.2	1859.1	1903.5	1947.8	1960.2
22.5°	1797.5	1806.2	1829.6	1825.9	1838.2	1840.6	1854.2	1899.8	1961.4	2015.6	2042.7
25°	1837.0	1844.3	1867.8	1870.2	1885.0	1894.9	1910.9	1955.2	2034.1	2103.1	2151.1
27.5°	1870.2	1885.0	1907.2	1909.6	1938.0	1950.3	1973.7	2024.2	2119.1	2204.1	2282.9
30°	1931.8	1935.5	1956.5	1963.8	2002.0	2013.1	2040.2	2104.3	2220.1	2326.1	2449.3
32.5°	2008.2	2007.0	2026.7	2039.0	2085.8	2105.5	2140.0	2214.0	2342.1	2473.9	2648.9
35°	2148.7	2136.3	2148.7	2161.0	2215.2	2236.1	2273.1	2384.0	2534.3	2758.5	2974.1
37.5°	2471.4	2453.0	2427.1	2365.5	2379.0	2406.1	2460.4	2610.7	2832.4	3248.9	3457.1
40°	3030.8	2990.1	2881.7	2719.1	2623.0	2625.4	2676.0	2873.1	3198.3	3810.7	3967.1
42.5°	3537.1	3508.8	3378.2	3155.2	2933.5	2921.1	2938.4	3168.8	3597.5	4331.8	4413.1
45°	4013.9	4027.5	3837.8	3662.8	3397.9	3316.6	3295.7	3484.2	4039.8	4796.3	4803.7
47.5°	4455.0	4477.2	4248.0	4082.9	3821.7	3751.5	3686.2	3815.6	4457.5	5191.8	5131.4
50°	4929.3	4946.6	4628.7	4493.2	4273.9	4208.6	4159.3	4216.0	4885.0	5558.9	5423.4
52.5°	5584.8	5488.7	5089.5	4865.3	4670.6	4665.7	4627.5	4663.2	5371.6	5889.1	5645.1
55°	6358.5	6107.2	5683.3	5324.8	5074.7	5088.3	5042.7	5101.8	5853.4	6172.5	5850.9
57.5°	6632.0	6625.8	6428.7	6085.0	5577.4	5546.6	5467.7	5534.3	6269.8	6437.3	5996.3
60°	7011.5	7044.7	7066.9	6859.9	6566.7	6287.0	6023.4	6017.2	6657.9	6678.8	6067.7
62.5°	7256.6	7287.4	7459.9	7432.8	7613.9	7521.5	7220.9	6554.4	6954.8	6835.3	6094.8
65°	6798.3	6874.7	7309.6	7641.0	8258.3	8387.6	8344.5	7379.8	7156.8	6880.9	6044.3
67.5°	5969.2	6069.0	6545.8	7320.7	8657.4	8801.6	8722.7	8211.5	7244.3	6861.2	5905.1
68°	5813.9	5900.2	6368.3	7213.5	8698.1	8823.8	8752.3	8273.1	7248.0	6858.7	5852.1
70°	5067.3	5137.5	5594.6	6664.0	8584.8	8701.8	8691.9	8331.0	7216.0	6782.3	5496.1
72.5°	3931.4	4001.6	4407.0	5526.9	8061.1	8275.5	8266.9	8099.3	7156.8	6393.0	4607.8
75°	2842.3	2919.9	3289.5	4246.8	6975.7	7447.6	7542.5	7702.6	6542.1	5380.3	3278.4
77.5°	2052.6	2109.2	2428.3	3208.2	5698.1	6237.7	6429.9	6591.3	5354.4	3921.5	1559.7
80°	1368.8	1409.4	1717.4	2385.2	4292.4	4610.2	4817.2	4547.4	3046.8	1418.1	168.8
82.5°	842.7	868.6	1111.3	1673.1	2969.2	3069.0	3070.2	2425.9	981.9	135.5	91.2
85°	452.2	460.8	603.7	912.9	1568.4	1643.5	1614.0	1018.9	198.4	72.7	49.3
87.5°	72.7	78.8	189.7	342.5	484.2	373.3	239.0	75.2	19.7	11.1	7.4
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: P233951

CATALOG NUMBER: VERD-G-C02-D-U-T4-7030-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9	1634.9
2.5°	1628.7	1625.0	1615.2	1610.3	1597.9	1601.6	1601.6	1591.8	1596.7	1616.4	1614.0
5°	1643.5	1644.8	1621.3	1609.0	1581.9	1574.5	1563.4	1548.7	1547.4	1561.0	1562.2
7.5°	1655.8	1662.0	1628.7	1604.1	1567.1	1541.3	1519.1	1493.2	1487.1	1495.7	1495.7
10°	1675.6	1681.7	1639.8	1605.3	1551.1	1509.2	1471.0	1437.8	1424.2	1424.2	1425.5
12.5°	1727.3	1723.6	1675.6	1622.6	1558.5	1492.0	1431.6	1387.3	1355.2	1354.0	1349.1
15°	1798.8	1785.2	1738.4	1658.3	1575.8	1490.8	1407.0	1338.0	1282.5	1267.8	1261.6
17.5°	1875.1	1857.9	1801.2	1703.9	1602.9	1489.5	1378.6	1282.5	1190.1	1154.4	1143.3
20°	1957.7	1936.7	1878.8	1756.9	1630.0	1480.9	1336.7	1202.5	1076.8	1009.0	991.8
22.5°	2048.9	2031.6	1961.4	1811.1	1648.5	1462.4	1271.5	1101.4	941.3	843.9	836.5
25°	2167.1	2151.1	2047.6	1859.1	1649.7	1427.9	1185.2	972.1	771.2	656.7	633.3
27.5°	2308.8	2280.5	2116.6	1888.7	1630.0	1367.5	1073.1	799.6	572.9	476.8	474.3
30°	2462.8	2411.1	2172.1	1896.1	1585.6	1271.5	919.1	587.7	406.6	341.3	341.3
32.5°	2643.9	2549.1	2228.7	1883.8	1512.9	1138.4	703.5	407.8	279.7	248.9	248.9
35°	2908.8	2762.2	2301.4	1853.0	1410.7	954.8	500.2	269.8	220.5	216.8	216.8
37.5°	3327.7	3083.8	2400.0	1801.2	1270.2	728.1	325.3	208.2	210.7	210.7	209.4
40°	3773.7	3455.8	2535.5	1718.7	1094.0	502.7	213.1	197.1	200.8	203.3	202.1
42.5°	4176.6	3809.4	2683.4	1607.8	885.8	316.6	194.7	189.7	187.3	189.7	191.0
45°	4525.2	4116.2	2832.4	1463.6	654.2	207.0	189.7	178.6	171.3	172.5	173.7
47.5°	4823.4	4357.7	2933.5	1312.1	433.7	183.6	183.6	163.9	156.5	156.5	156.5
50°	5084.6	4572.0	2995.1	1131.0	258.7	181.1	172.5	150.3	142.9	141.7	142.9
52.5°	5274.3	4722.4	2987.7	910.5	173.7	174.9	157.7	138.0	129.4	131.8	133.1
55°	5424.6	4817.2	2922.4	666.5	162.6	163.9	146.6	124.4	118.3	119.5	119.5
57.5°	5519.5	4840.6	2789.3	433.7	158.9	146.6	131.8	110.9	103.5	103.5	103.5
60°	5550.3	4828.3	2608.2	277.2	157.7	131.8	119.5	99.8	92.4	92.4	92.4
62.5°	5524.4	4756.9	2301.4	199.6	146.6	123.2	108.4	88.7	81.3	78.8	78.8
65°	5432.0	4565.9	1774.1	165.1	131.8	113.3	98.6	80.1	70.2	66.5	65.3
67.5°	5162.2	4151.9	1032.4	155.2	119.5	103.5	91.2	72.7	61.6	55.4	54.2
68°	5092.0	4028.7	848.9	154.0	119.5	102.3	89.9	70.2	59.1	53.0	51.7
70°	4589.3	3250.1	243.9	146.6	117.0	98.6	82.5	64.1	53.0	45.6	44.4
72.5°	3455.8	1904.7	152.8	130.6	115.8	87.5	80.1	64.1	46.8	39.4	37.0
75°	1929.4	433.7	129.4	97.3	108.4	86.2	78.8	57.9	41.9	32.0	30.8
77.5°	396.7	125.7	110.9	67.8	82.5	75.2	66.5	49.3	38.2	24.6	23.4
80°	112.1	93.6	98.6	49.3	46.8	53.0	49.3	43.1	28.3	18.5	18.5
82.5°	72.7	69.0	88.7	33.3	24.6	24.6	32.0	25.9	24.6	14.8	14.8
85°	44.4	57.9	43.1	14.8	12.3	9.9	11.1	11.1	14.8	9.9	9.9
87.5°	6.2	6.2	6.2	6.2	6.2	4.9	3.7	3.7	3.7	4.9	4.9
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)