

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: P233871

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233871
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-G-C02-D-U-T4-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1175mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16490 lumens
Efficiency: N/A
Efficacy: 119.5 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 - 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

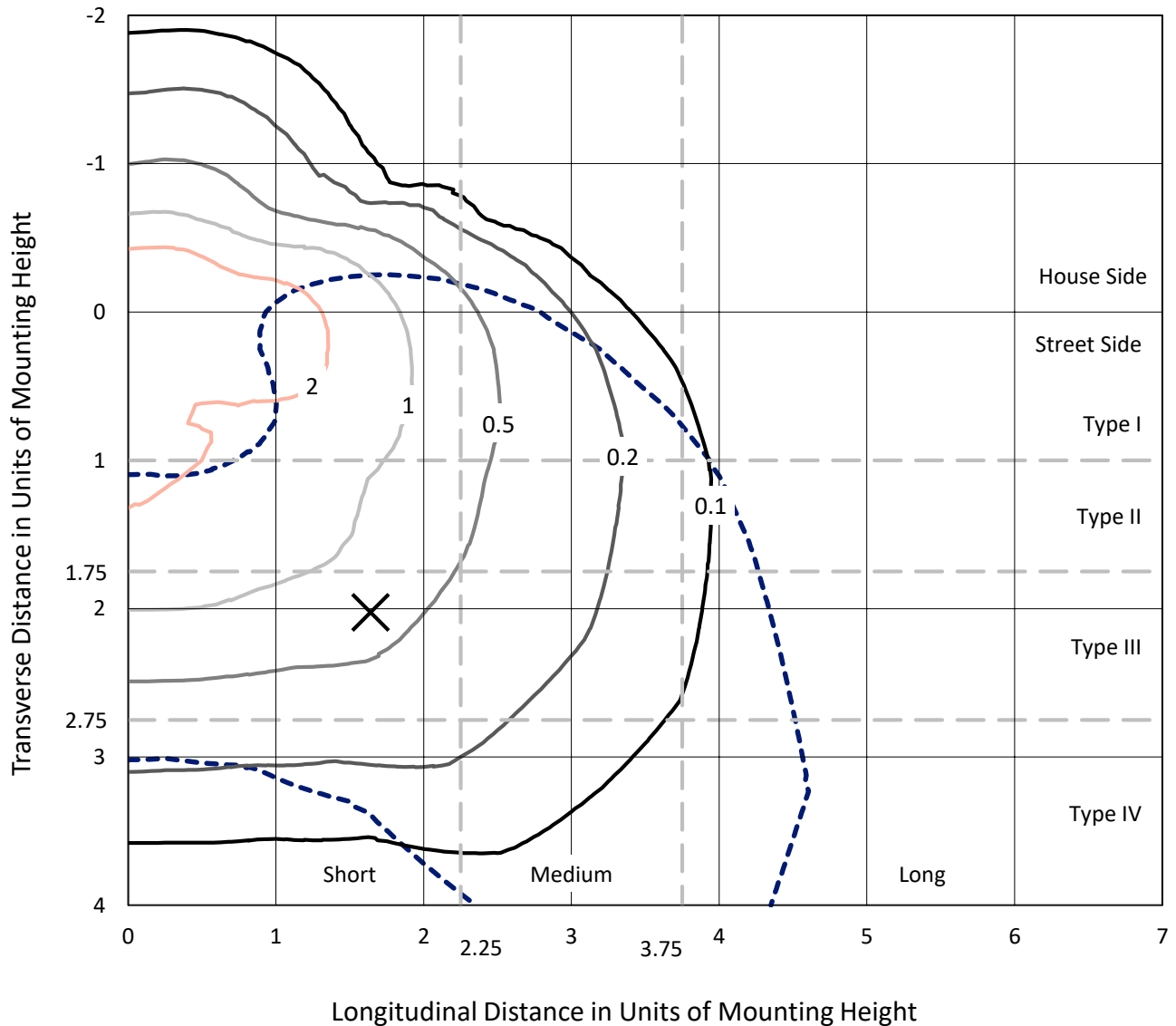


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

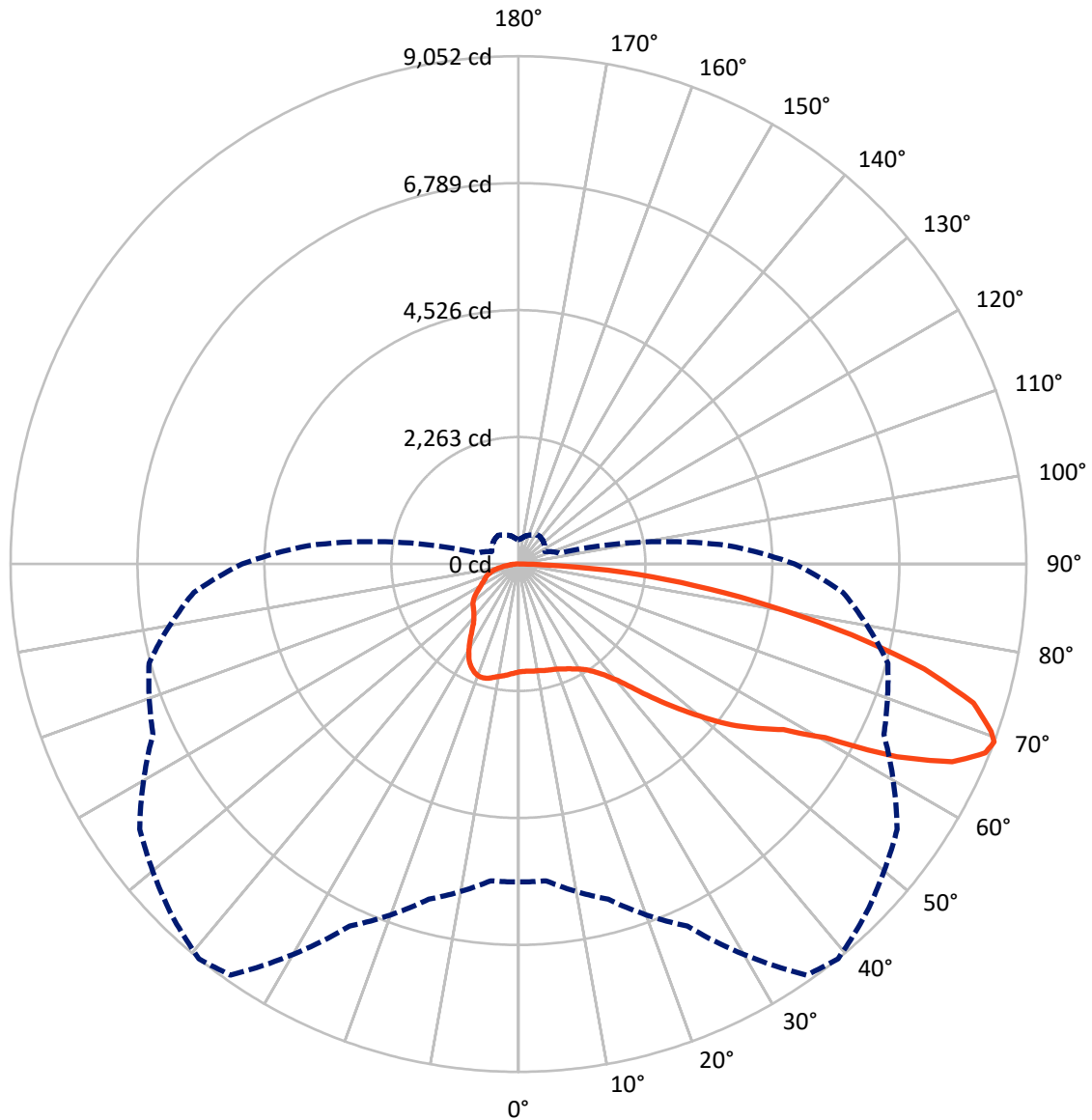


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.6	0.0	3865.6
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	12624.4	0.0	12624.4
	% Fixture	76.6	0.0	76.6
Total	Lumens	16490.0	0.0	16490.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	1.1
10°-20°	576.9	3.5
20°-30°	971.2	5.9
30°-40°	1407.0	8.5
40°-50°	2274.4	13.8
50°-60°	3329.7	20.2
60°-70°	4167.5	25.3
70°-80°	2979.3	18.1
80°-90°	597.3	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°	16490.0	100.0
0°-180°	16490.0	100.0



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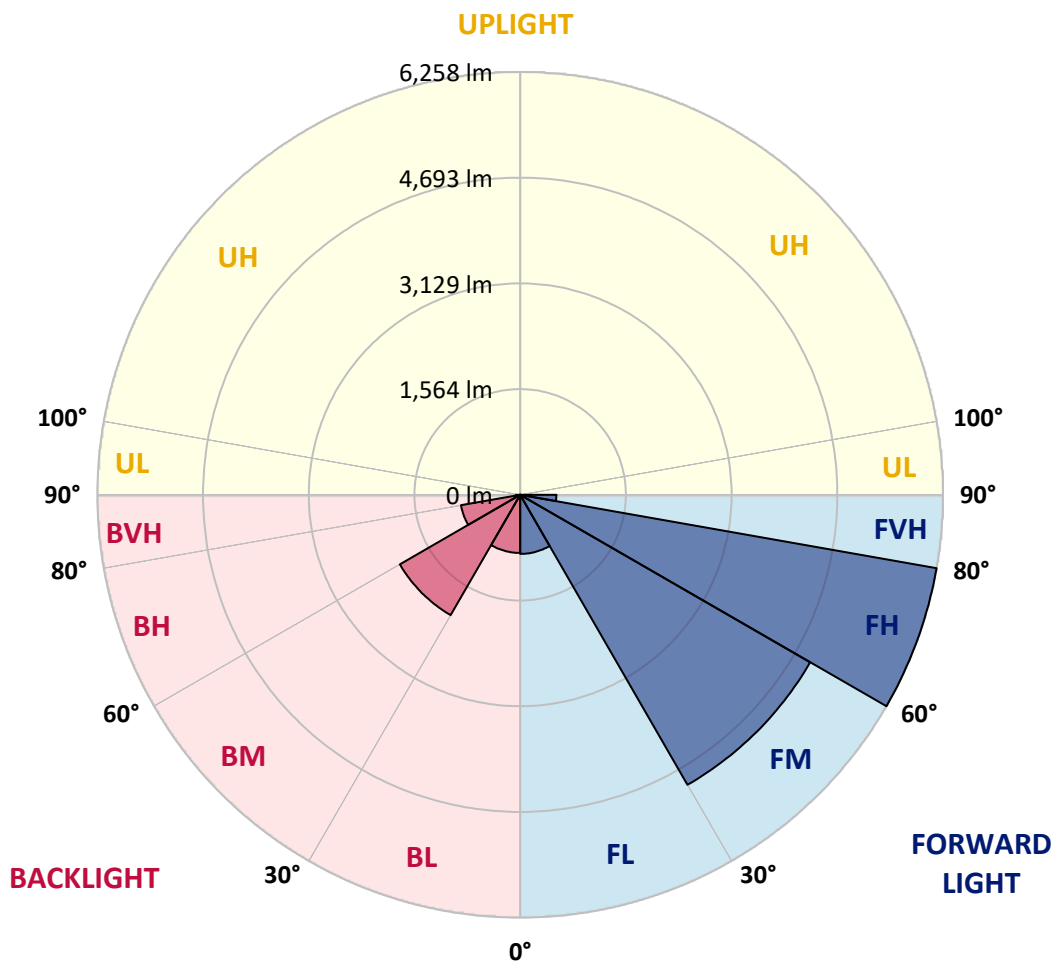
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.8	5.3			
FM	(30°-60°)	4955.5	30.1			
FH	(60°-80°)	6257.9	37.9			G3/7500
FVH	(80°-90°)	536.3	3.3			G4/750
BL	(0°-30°)	859.9	5.2	B2/1000		
BM	(30°-60°)	2055.6	12.5	B2/2500		
BH	(60°-80°)	889.0	5.4	B2/1000		G2/1000
BVH	(80°-90°)	61.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	1954.2	1951.2	1945.1	1920.8	1917.7	1916.2	1919.2	1910.1	1908.6	1911.6	1908.6
5°	1955.7	1952.7	1945.1	1923.8	1920.8	1917.7	1919.2	1911.6	1913.2	1920.8	1920.8
7.5°	1958.8	1955.7	1948.1	1925.3	1931.4	1928.4	1934.4	1923.8	1923.8	1929.9	1931.4
10°	1951.2	1949.6	1945.1	1928.4	1937.5	1931.4	1937.5	1939.0	1945.1	1949.6	1948.1
12.5°	1931.4	1931.4	1931.4	1923.8	1949.6	1948.1	1958.8	1969.4	1984.6	1992.2	1996.7
15°	1919.2	1917.7	1928.4	1926.8	1958.8	1963.3	1981.5	2008.9	2031.7	2051.4	2057.5
17.5°	1931.4	1931.4	1945.1	1942.0	1974.0	1977.0	1996.7	2036.3	2074.2	2112.2	2128.9
20°	1945.1	1946.6	1963.3	1967.9	1998.3	1996.7	2016.5	2065.1	2116.8	2173.0	2201.9
22.5°	1987.6	1986.1	1999.8	1990.7	2025.6	2031.7	2048.4	2091.0	2163.9	2235.3	2282.4
25°	2019.5	2024.1	2037.8	2031.7	2060.6	2068.2	2095.5	2136.5	2223.2	2308.3	2391.8
27.5°	2049.9	2059.0	2069.7	2068.2	2107.7	2116.8	2138.1	2201.9	2302.2	2404.0	2521.0
30°	2095.5	2092.5	2100.1	2113.8	2165.4	2171.5	2197.3	2274.8	2396.4	2528.6	2685.1
32.5°	2156.3	2153.3	2160.9	2173.0	2235.3	2250.5	2285.5	2369.0	2522.5	2682.1	2873.5
35°	2252.0	2259.6	2265.7	2280.9	2341.7	2363.0	2410.1	2516.4	2694.2	2949.5	3223.1
37.5°	2584.8	2568.1	2534.7	2473.9	2490.6	2514.9	2581.8	2733.7	2992.1	3425.2	3675.9
40°	3104.5	3084.8	2979.9	2802.1	2721.6	2727.7	2793.0	2999.7	3352.2	3984.4	4215.3
42.5°	3593.8	3569.5	3444.9	3223.1	3063.5	3045.3	3051.3	3289.9	3747.3	4543.6	4666.7
45°	4055.8	4067.9	3878.0	3707.8	3525.5	3441.9	3416.0	3593.8	4186.5	5028.3	5066.3
47.5°	4498.0	4507.1	4292.8	4128.7	3952.5	3855.2	3805.1	3943.3	4590.7	5420.4	5385.4
50°	4949.3	4973.6	4680.3	4540.5	4377.9	4308.0	4259.4	4350.6	5037.4	5795.7	5687.8
52.5°	5586.0	5484.2	5099.8	4902.2	4786.7	4765.4	4715.3	4789.8	5511.6	6127.0	5902.1
55°	6294.2	6076.8	5672.6	5327.7	5168.1	5168.1	5124.1	5210.7	6000.9	6374.7	6076.8
57.5°	6523.6	6544.9	6405.1	6029.7	5601.2	5567.8	5525.2	5643.8	6420.3	6596.6	6142.2
60°	6924.8	6984.0	7091.9	6778.9	6567.7	6283.5	6025.2	6089.0	6781.9	6778.9	6212.1
62.5°	7123.8	7180.1	7517.4	7348.7	7547.8	7567.6	7084.3	6592.0	7049.4	6870.1	6245.5
65°	6935.4	6974.9	7424.7	7646.6	8224.0	8499.1	8260.5	7268.2	7190.7	6832.1	6120.9
67.5°	6316.9	6391.4	6763.7	7439.9	8827.3	8980.8	8757.4	8196.7	7251.5	6844.2	6020.6
69°	5666.6	5668.1	6184.7	7122.3	8945.8	9052.2	8778.7	8240.7	7187.7	6815.4	5806.4
70°	5300.3	5338.3	5721.3	6847.3	8901.8	8936.7	8727.0	8239.2	7143.6	6806.3	5602.7
72.5°	4136.3	4116.6	4498.0	5725.8	8403.3	8480.8	8249.9	8006.7	7107.1	6414.2	4739.6
75°	2891.8	2952.6	3326.4	4338.4	7240.9	7473.4	7473.4	7692.2	6541.8	5481.2	3426.7
77.5°	2151.7	2160.9	2460.2	3314.2	5826.1	6067.7	6289.6	6473.5	5113.4	3754.9	1531.7
80°	1457.3	1471.0	1744.5	2445.0	4317.2	4539.0	4890.0	4453.9	3042.2	1299.3	174.8
82.5°	917.8	936.1	1153.4	1717.1	3077.2	3177.5	3285.4	2514.9	1013.6	150.4	110.9
85°	545.5	548.6	696.0	1097.1	1876.7	1882.8	1767.3	1157.9	272.0	89.7	69.9
87.5°	227.9	240.1	303.9	486.3	550.1	434.6	270.5	92.7	41.0	36.5	24.3
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°	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8	1920.8
2.5°	1899.5	1916.2	1913.2	1917.7	1923.8	1936.0	1949.6	1943.6	1951.2	1967.9	1967.9
5°	1916.2	1929.9	1934.4	1943.6	1951.2	1963.3	1972.4	1969.4	1986.1	2010.4	2010.4
7.5°	1929.9	1940.5	1955.7	1966.4	1974.0	1998.3	2007.4	2001.3	2013.5	2042.3	2043.9
10°	1949.6	1960.3	1983.1	1993.7	2008.9	2021.1	2033.2	2031.7	2043.9	2069.7	2074.2
12.5°	1998.3	2005.9	2037.8	2053.0	2053.0	2068.2	2059.0	2043.9	2049.9	2065.1	2068.2
15°	2062.1	2072.7	2113.8	2121.4	2113.8	2116.8	2095.5	2046.9	2022.6	2027.1	2028.7
17.5°	2135.0	2153.3	2200.4	2189.7	2180.6	2157.8	2103.1	2030.2	1957.2	1929.9	1934.4
20°	2212.5	2235.3	2290.0	2267.2	2233.8	2174.5	2086.4	1961.8	1849.3	1784.0	1781.0
22.5°	2302.2	2331.1	2382.7	2343.2	2268.8	2165.4	2030.2	1878.2	1735.4	1633.6	1627.5
25°	2425.3	2457.2	2475.4	2396.4	2274.8	2132.0	1949.6	1764.2	1584.9	1463.4	1454.2
27.5°	2565.1	2581.8	2545.3	2426.8	2246.0	2060.6	1849.3	1619.9	1422.3	1322.0	1308.4
30°	2720.1	2706.4	2592.4	2411.6	2171.5	1948.1	1692.8	1436.0	1278.0	1197.4	1185.3
32.5°	2899.4	2856.8	2628.9	2369.0	2072.7	1800.7	1522.6	1319.0	1192.9	1112.3	1106.3
35°	3194.2	3072.6	2688.2	2303.7	1942.0	1627.5	1366.1	1218.7	1119.9	1019.6	1004.5
37.5°	3621.2	3391.7	2774.8	2242.9	1800.7	1460.3	1247.6	1138.2	1051.6	939.1	917.8
40°	4064.9	3767.1	2917.6	2176.1	1668.5	1337.2	1182.2	1104.7	1019.6	913.3	884.4
42.5°	4470.6	4124.2	3084.8	2092.5	1530.2	1238.5	1150.3	1095.6	1010.5	910.2	887.4
45°	4838.4	4460.0	3256.5	1996.7	1378.3	1159.4	1124.5	1078.9	992.3	896.6	878.3
47.5°	5148.4	4745.7	3429.7	1885.8	1232.4	1110.8	1097.1	1048.5	968.0	875.3	860.1
50°	5405.2	4950.8	3528.5	1768.8	1112.3	1074.4	1057.6	996.9	914.8	828.2	819.1
52.5°	5595.1	5078.5	3618.1	1706.5	1018.1	1015.1	1004.5	945.2	866.2	776.5	758.3
55°	5727.3	5183.3	3578.6	1657.9	917.8	940.6	934.5	898.1	831.2	726.4	711.2
57.5°	5734.9	5192.4	3493.5	1369.2	819.1	851.0	861.6	867.7	793.2	700.5	682.3
60°	5727.3	5125.6	3335.5	1004.5	723.3	761.3	800.8	800.8	749.2	658.0	644.3
62.5°	5692.4	4993.4	2967.8	715.7	647.3	697.5	749.2	726.4	682.3	609.4	595.7
65°	5532.8	4773.0	2321.9	583.5	615.4	661.0	685.3	653.4	597.2	521.2	515.1
67.5°	5242.6	4268.5	1343.3	534.9	588.1	629.1	648.9	600.2	547.1	474.1	471.1
69°	4923.5	3758.0	756.8	522.7	571.4	607.8	624.6	571.4	519.7	449.8	436.1
70°	4637.8	3302.1	492.3	512.1	554.7	594.2	606.3	551.6	503.0	431.6	422.4
72.5°	3513.3	1989.1	331.3	468.0	509.1	539.5	557.7	506.0	451.3	379.9	361.7
75°	1919.2	541.0	291.8	401.2	452.8	493.9	498.4	433.1	354.1	281.1	273.5
77.5°	373.8	185.4	250.7	331.3	360.1	408.8	405.7	361.7	307.0	238.6	229.5
80°	141.3	133.7	209.7	237.1	253.8	305.4	323.7	291.8	255.3	162.6	139.8
82.5°	95.7	98.8	156.5	139.8	155.0	180.8	227.9	221.9	202.1	110.9	98.8
85°	66.9	77.5	86.6	59.3	76.0	114.0	150.4	145.9	124.6	77.5	69.9
87.5°	19.8	21.3	24.3	30.4	47.1	85.1	123.1	101.8	68.4	57.7	50.1
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)