

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: P233875

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233875
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
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1175mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16945 lumens
Efficiency: N/A
Efficacy: 122.8 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

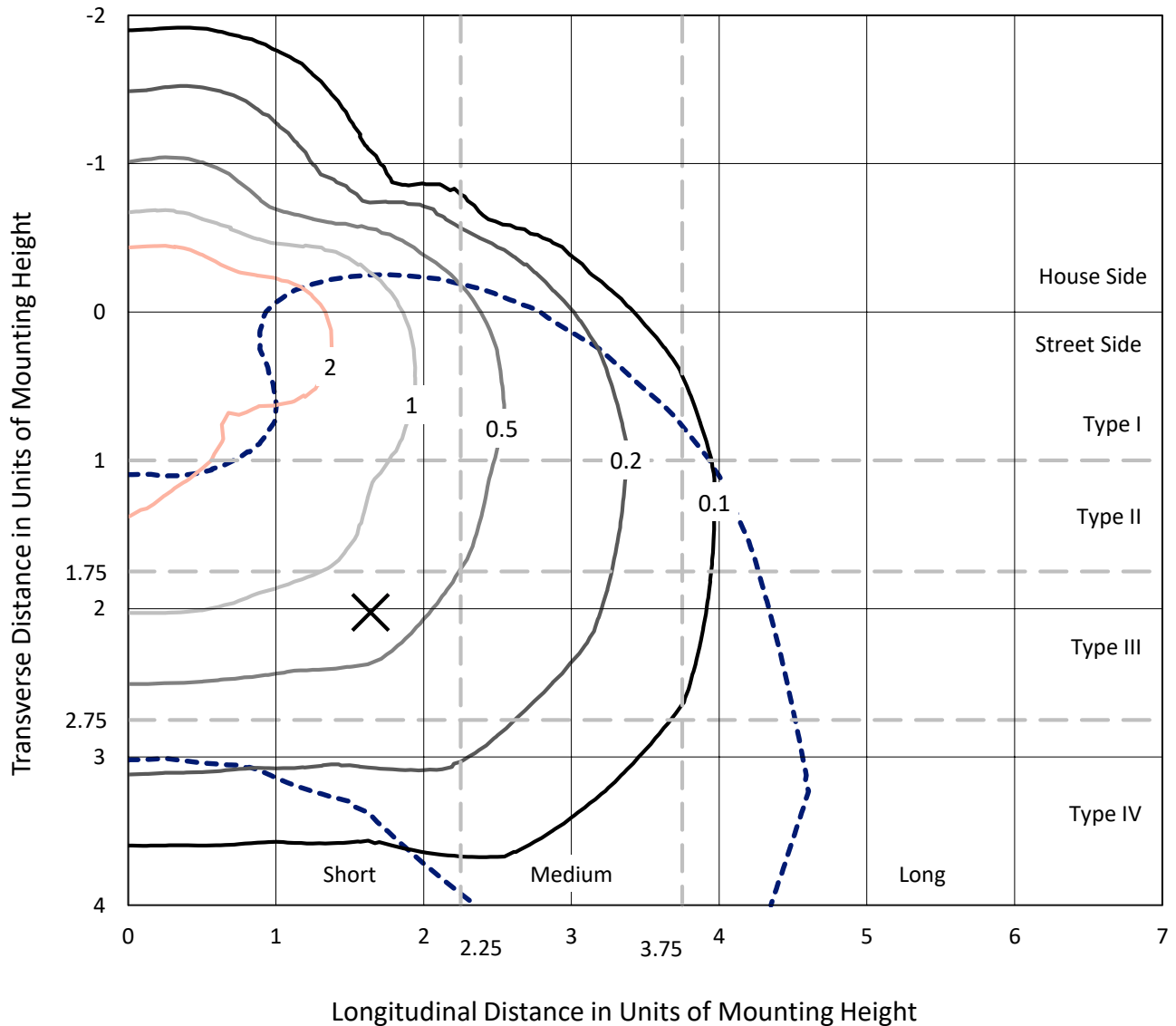
Input Watts (W): 138
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

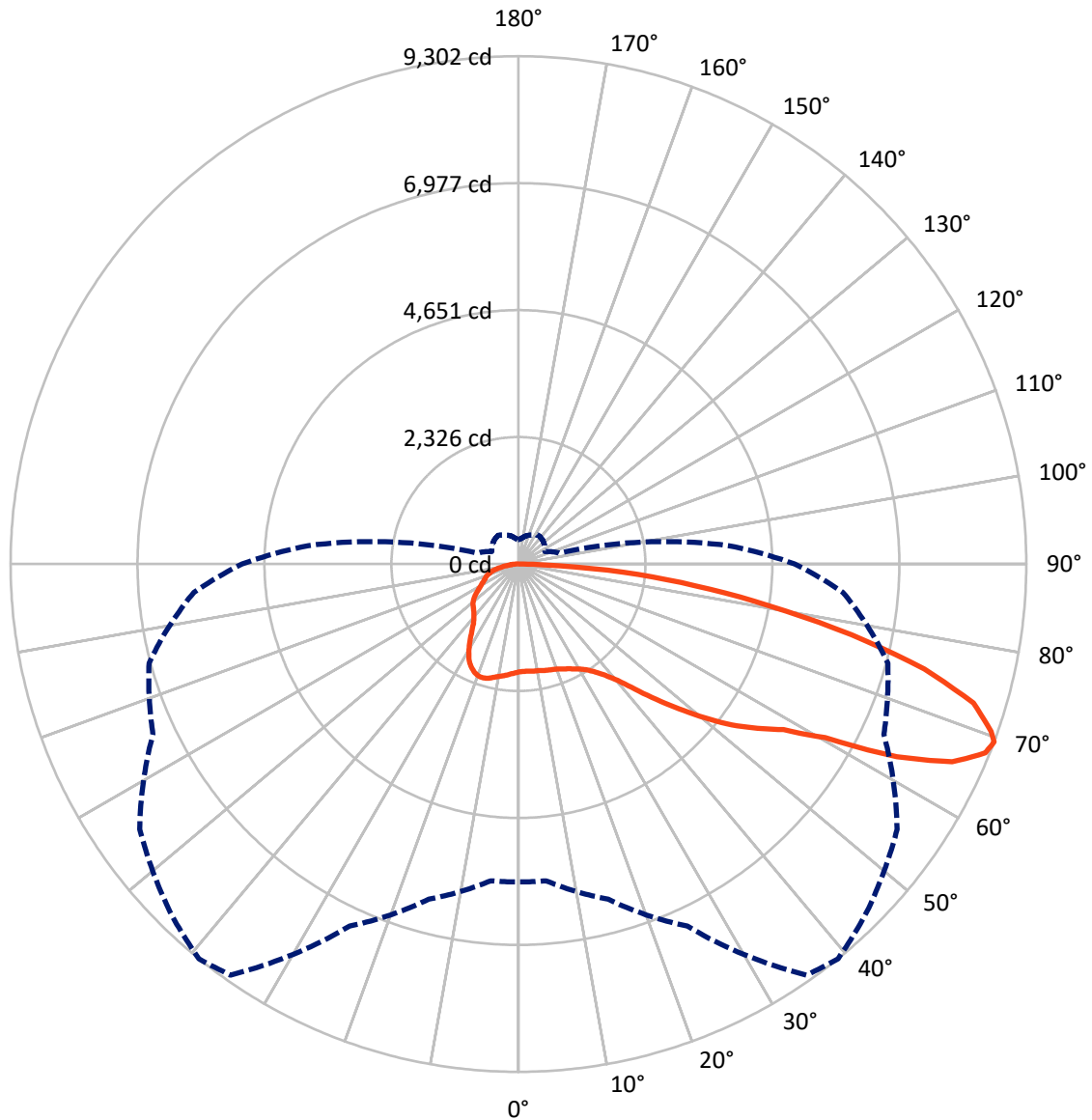


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - Non-Cutoff

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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	3972.2	0.0	3972.2
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	12972.8	0.0	12972.8
	% Fixture	76.6	0.0	76.6
Total	Lumens	16945.0	0.0	16945.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	1.1
10°-20°	592.8	3.5
20°-30°	998.0	5.9
30°-40°	1445.8	8.5
40°-50°	2337.1	13.8
50°-60°	3421.6	20.2
60°-70°	4282.5	25.3
70°-80°	3061.5	18.1
80°-90°	613.8	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°	16945.0	100.0
0°-180°	16945.0	100.0



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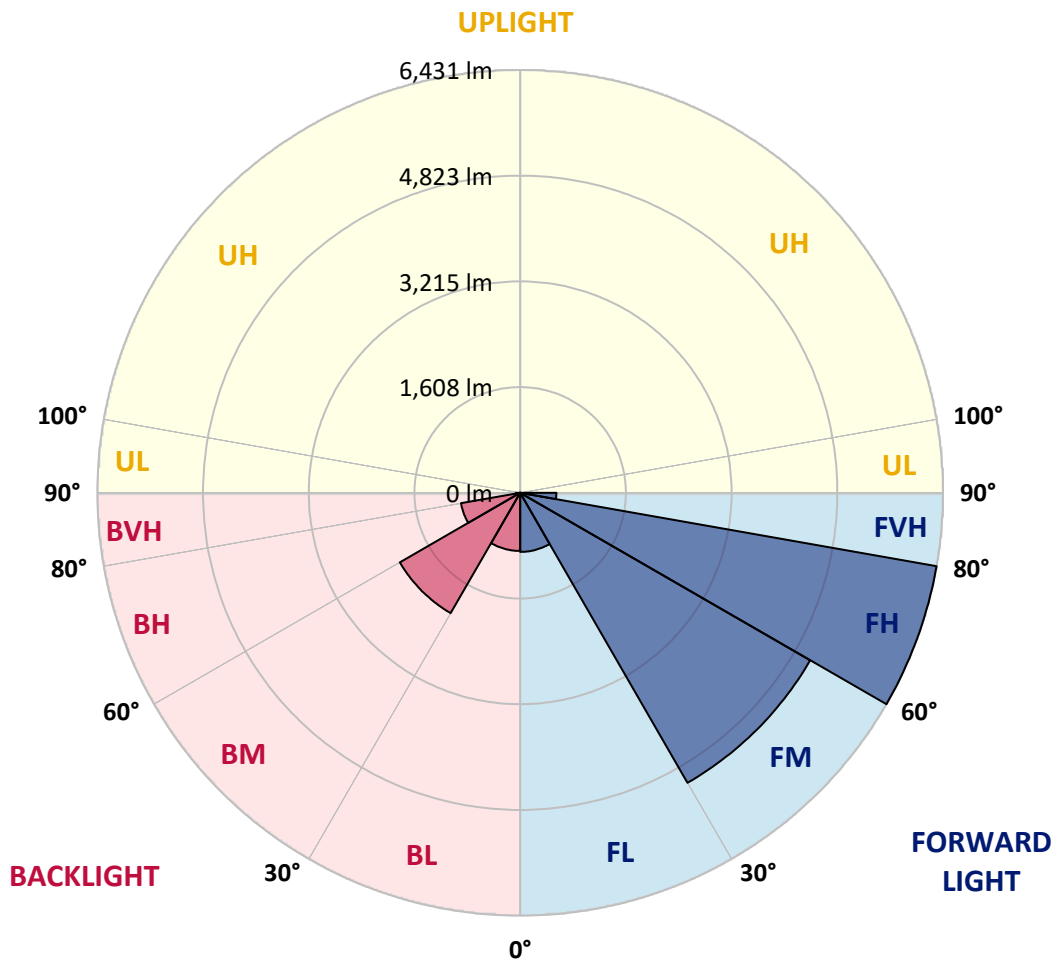
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	899.0	5.3			
FM	(30°-60°)	5092.2	30.1			
FH	(60°-80°)	6430.5	37.9			G3/7500
FVH	(80°-90°)	551.1	3.3			G4/750
BL	(0°-30°)	883.7	5.2	B2/1000		
BM	(30°-60°)	2112.3	12.5	B2/2500		
BH	(60°-80°)	913.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	62.7	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°	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8
2.5°	2008.1	2005.0	1998.7	1973.8	1970.6	1969.1	1972.2	1962.8	1961.3	1964.4	1961.3
5°	2009.7	2006.6	1998.7	1976.9	1973.8	1970.6	1972.2	1964.4	1966.0	1973.8	1973.8
7.5°	2012.8	2009.7	2001.9	1978.4	1984.7	1981.6	1987.8	1976.9	1976.9	1983.1	1984.7
10°	2005.0	2003.4	1998.7	1981.6	1990.9	1984.7	1990.9	1992.5	1998.7	2003.4	2001.9
12.5°	1984.7	1984.7	1984.7	1976.9	2003.4	2001.9	2012.8	2023.7	2039.3	2047.2	2051.8
15°	1972.2	1970.6	1981.6	1980.0	2012.8	2017.5	2036.2	2064.3	2087.8	2108.1	2114.3
17.5°	1984.7	1984.7	1998.7	1995.6	2028.4	2031.5	2051.8	2092.4	2131.5	2170.5	2187.7
20°	1998.7	2000.3	2017.5	2022.2	2053.4	2051.8	2072.1	2122.1	2175.2	2233.0	2262.6
22.5°	2042.5	2040.9	2055.0	2045.6	2081.5	2087.8	2104.9	2148.7	2223.6	2297.0	2345.4
25°	2075.3	2079.9	2094.0	2087.8	2117.4	2125.2	2153.3	2195.5	2284.5	2372.0	2457.8
27.5°	2106.5	2115.9	2126.8	2125.2	2165.8	2175.2	2197.1	2262.6	2365.7	2470.3	2590.6
30°	2153.3	2150.2	2158.0	2172.1	2225.2	2231.4	2258.0	2337.6	2462.5	2598.4	2759.2
32.5°	2215.8	2212.7	2220.5	2233.0	2297.0	2312.6	2348.5	2434.4	2592.1	2756.1	2952.8
35°	2314.2	2322.0	2328.2	2343.8	2406.3	2428.2	2476.6	2585.9	2768.6	3030.9	3312.0
37.5°	2656.1	2639.0	2604.6	2542.2	2559.3	2584.3	2653.0	2809.2	3074.6	3519.7	3777.3
40°	3190.2	3169.9	3062.1	2879.4	2796.7	2802.9	2870.1	3082.4	3444.7	4094.3	4331.7
42.5°	3693.0	3668.0	3540.0	3312.0	3148.0	3129.3	3135.5	3380.7	3850.7	4668.9	4795.4
45°	4167.7	4180.2	3985.0	3810.1	3622.7	3536.8	3510.3	3693.0	4302.0	5167.1	5206.1
47.5°	4622.1	4631.5	4411.3	4242.7	4061.5	3961.6	3910.1	4052.1	4717.4	5569.9	5534.0
50°	5085.9	5110.9	4809.5	4665.8	4498.7	4426.9	4376.9	4470.6	5176.4	5955.6	5844.8
52.5°	5740.2	5635.5	5240.5	5037.5	4918.8	4896.9	4845.4	4921.9	5663.6	6296.1	6065.0
55°	6467.8	6244.5	5829.2	5474.7	5310.7	5310.7	5265.5	5354.5	6166.4	6550.6	6244.5
57.5°	6703.6	6725.5	6581.8	6196.1	5755.8	5721.4	5677.7	5799.5	6597.4	6778.6	6311.7
60°	7115.9	7176.8	7287.6	6965.9	6748.9	6456.9	6191.4	6257.0	6969.1	6965.9	6383.5
62.5°	7320.4	7378.2	7724.8	7551.5	7756.1	7776.4	7279.8	6773.9	7243.9	7059.6	6417.9
65°	7126.8	7167.4	7629.6	7857.6	8451.0	8733.6	8488.4	7468.8	7389.1	7020.6	6289.8
67.5°	6491.2	6567.8	6950.3	7645.2	9070.9	9228.6	8999.0	8422.8	7451.6	7033.1	6186.7
69°	5822.9	5824.5	6355.4	7318.9	9192.7	9302.0	9020.9	8468.1	7386.0	7003.4	5966.6
70°	5446.6	5485.6	5879.1	7036.2	9147.4	9183.3	8967.8	8466.6	7340.7	6994.1	5757.3
72.5°	4250.5	4230.2	4622.1	5883.8	8635.2	8714.9	8477.5	8227.7	7303.2	6591.2	4870.4
75°	2971.6	3034.0	3418.2	4458.1	7440.7	7679.6	7679.6	7904.4	6722.4	5632.4	3521.2
77.5°	2211.1	2220.5	2528.1	3405.7	5986.9	6235.2	6463.1	6652.1	5254.5	3858.5	1574.0
80°	1497.5	1511.6	1792.6	2512.5	4436.3	4664.3	5025.0	4576.8	3126.2	1335.1	179.6
82.5°	943.2	961.9	1185.2	1764.5	3162.1	3265.1	3376.0	2584.3	1041.5	154.6	114.0
85°	560.6	563.7	715.2	1127.4	1928.5	1934.7	1816.0	1189.9	279.5	92.1	71.8
87.5°	234.2	246.7	312.3	499.7	565.3	446.6	278.0	95.3	42.2	37.5	25.0
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°	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8	1973.8
2.5°	1951.9	1969.1	1966.0	1970.6	1976.9	1989.4	2003.4	1997.2	2005.0	2022.2	2022.2
5°	1969.1	1983.1	1987.8	1997.2	2005.0	2017.5	2026.9	2023.7	2040.9	2065.9	2065.9
7.5°	1983.1	1994.1	2009.7	2020.6	2028.4	2053.4	2062.8	2056.5	2069.0	2098.7	2100.2
10°	2003.4	2014.4	2037.8	2048.7	2064.3	2076.8	2089.3	2087.8	2100.2	2126.8	2131.5
12.5°	2053.4	2061.2	2094.0	2109.6	2109.6	2125.2	2115.9	2100.2	2106.5	2122.1	2125.2
15°	2119.0	2129.9	2172.1	2179.9	2172.1	2175.2	2153.3	2103.4	2078.4	2083.1	2084.6
17.5°	2193.9	2212.7	2261.1	2250.2	2240.8	2217.4	2161.1	2086.2	2011.2	1983.1	1987.8
20°	2273.6	2297.0	2353.2	2329.8	2295.4	2234.5	2144.0	2015.9	1900.4	1833.2	1830.1
22.5°	2365.7	2395.4	2448.5	2407.9	2331.4	2225.2	2086.2	1930.0	1783.3	1678.6	1672.4
25°	2492.2	2525.0	2543.7	2462.5	2337.6	2190.8	2003.4	1812.9	1628.7	1503.7	1494.4
27.5°	2635.8	2653.0	2615.5	2493.8	2307.9	2117.4	1900.4	1664.6	1461.6	1358.5	1344.5
30°	2795.1	2781.1	2664.0	2478.1	2231.4	2001.9	1739.5	1475.6	1313.2	1230.5	1218.0
32.5°	2979.4	2935.7	2701.4	2434.4	2129.9	1850.4	1564.6	1355.4	1225.8	1143.0	1136.8
35°	3282.3	3157.4	2762.3	2367.3	1995.6	1672.4	1403.8	1252.3	1150.8	1047.8	1032.2
37.5°	3721.1	3485.3	2851.3	2304.8	1850.4	1500.6	1282.0	1169.6	1080.6	965.0	943.2
40°	4177.1	3871.0	2998.1	2236.1	1714.6	1374.1	1214.9	1135.2	1047.8	938.5	908.8
42.5°	4594.0	4238.0	3169.9	2150.2	1572.5	1272.6	1182.1	1125.9	1038.4	935.4	911.9
45°	4971.9	4583.1	3346.3	2051.8	1416.3	1191.4	1155.5	1108.7	1019.7	921.3	902.6
47.5°	5290.4	4876.6	3524.4	1937.8	1266.4	1141.5	1127.4	1077.4	994.7	899.4	883.8
50°	5554.3	5087.4	3625.9	1817.6	1143.0	1104.0	1086.8	1024.4	940.0	851.0	841.7
52.5°	5749.5	5218.6	3718.0	1753.6	1046.2	1043.1	1032.2	971.3	890.1	797.9	779.2
55°	5885.4	5326.4	3677.4	1703.6	943.2	966.6	960.3	922.9	854.2	746.4	730.8
57.5°	5893.2	5335.7	3589.9	1406.9	841.7	874.5	885.4	891.6	815.1	719.9	701.1
60°	5885.4	5267.0	3427.5	1032.2	743.3	782.3	822.9	822.9	769.8	676.1	662.1
62.5°	5849.5	5131.2	3049.7	735.5	665.2	716.7	769.8	746.4	701.1	626.2	612.1
65°	5685.5	4904.7	2386.0	599.6	632.4	679.3	704.2	671.5	613.7	535.6	529.4
67.5°	5387.2	4386.3	1380.4	549.7	604.3	646.5	666.8	616.8	562.1	487.2	484.1
69°	5059.3	3861.6	777.6	537.2	587.1	624.6	641.8	587.1	534.0	462.2	448.2
70°	4765.8	3393.2	505.9	526.2	570.0	610.6	623.0	566.8	516.9	443.5	434.1
72.5°	3610.2	2044.0	340.4	480.9	523.1	554.3	573.1	520.0	463.8	390.4	371.6
75°	1972.2	555.9	299.8	412.2	465.3	507.5	512.2	445.0	363.8	288.9	281.1
77.5°	384.1	190.5	257.7	340.4	370.1	420.0	416.9	371.6	315.4	245.2	235.8
80°	145.2	137.4	215.5	243.6	260.8	313.9	332.6	299.8	262.3	167.1	143.7
82.5°	98.4	101.5	160.8	143.7	159.3	185.8	234.2	228.0	207.7	114.0	101.5
85°	68.7	79.6	89.0	60.9	78.1	117.1	154.6	149.9	128.0	79.6	71.8
87.5°	20.3	21.9	25.0	31.2	48.4	87.4	126.5	104.6	70.3	59.3	51.5
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)