

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: P233517

Luminaire Tested: **VERD-C02H-D-U-T3-8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-14)  
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-T3-8027  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1040mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13078 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

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

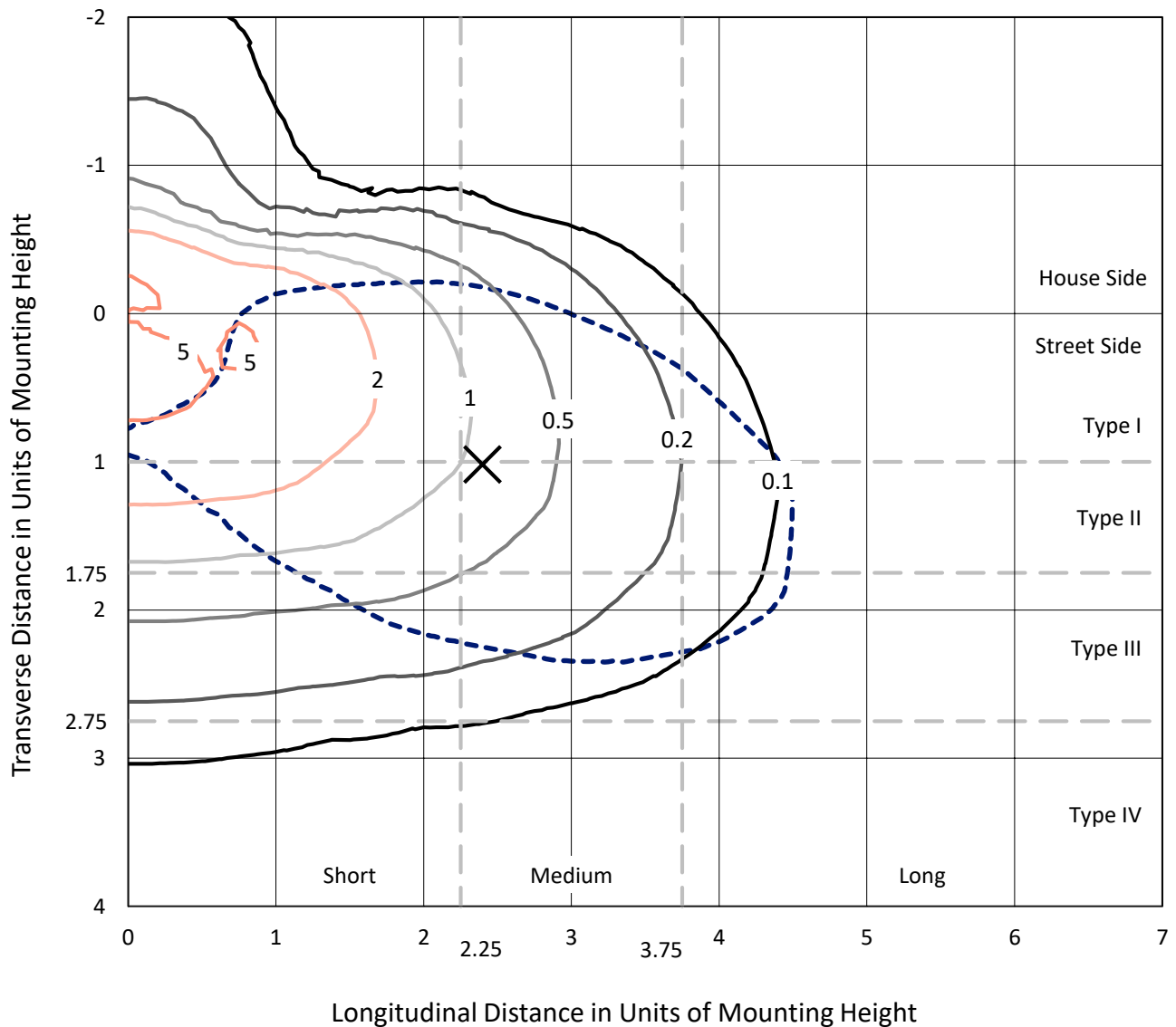


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

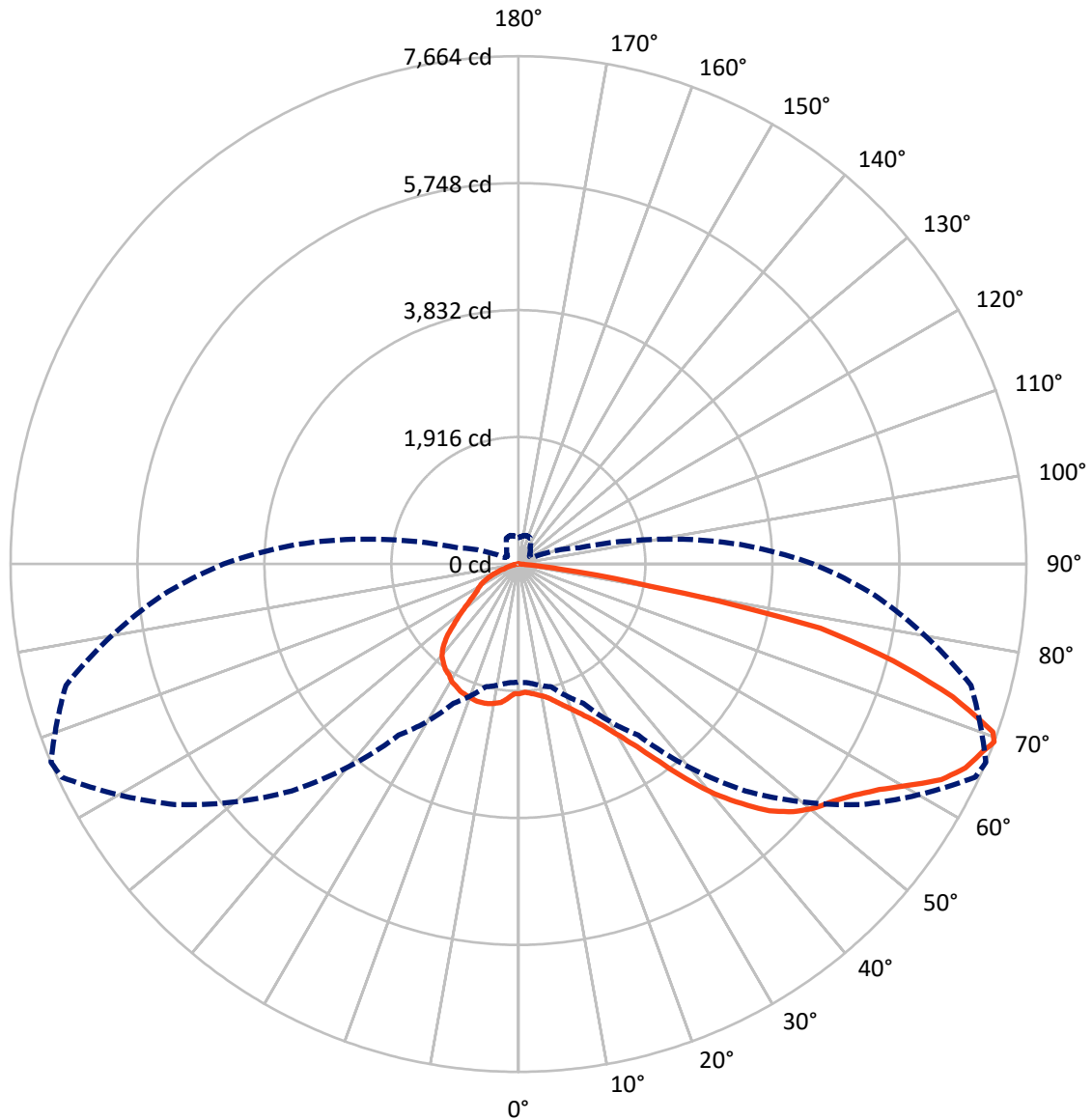


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2945.0	0.0	2945.0
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	10133.0	0.0	10133.0
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	13078.0	0.0	13078.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.1	1.5
10°-20°	631.4	4.8
20°-30°	1087.8	8.3
30°-40°	1618.0	12.4
40°-50°	2228.3	17.0
50°-60°	2663.8	20.4
60°-70°	2811.1	21.5
70°-80°	1684.6	12.9
80°-90°	154.9	1.2
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°	13078.0	100.0
0°-180°	13078.0	100.0



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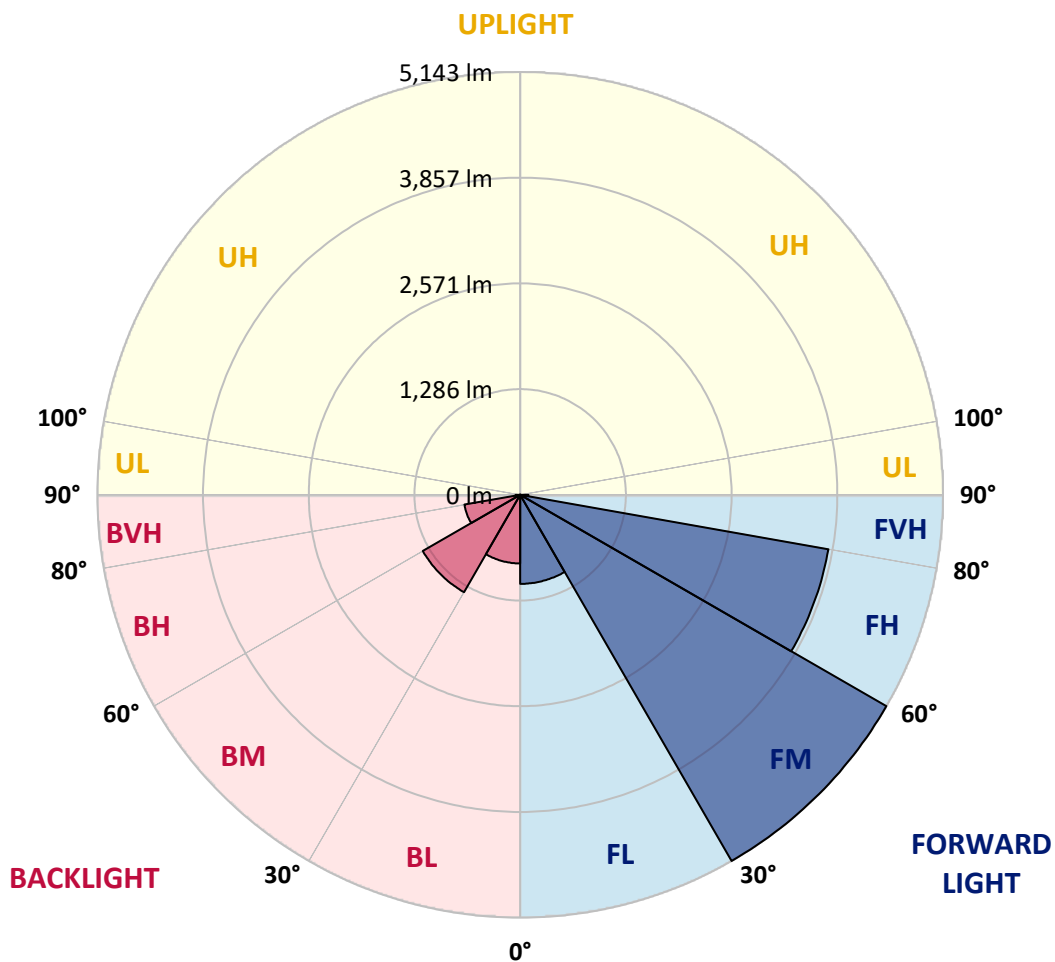
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.9	8.3			
FM (30°-60°)	5142.8	39.3			
FH (60°-80°)	3807.0	29.1			G2/5000
FVH (80°-90°)	100.2	0.8			G2/225
BL (0°-30°)	834.5	6.4	B2/1000		
BM (30°-60°)	1367.2	10.5	B2/2500		
BH (60°-80°)	688.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	54.7	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2
2.5°	1988.3	1987.1	1981.2	1959.8	1957.4	1955.0	1940.7	1941.9	1938.4	1941.9	1943.1
5°	2043.0	2038.3	2032.3	2009.7	2001.4	1990.7	1969.3	1968.1	1959.8	1962.1	1964.5
7.5°	2110.8	2106.0	2101.3	2075.1	2066.8	2047.8	2014.5	1997.8	1990.7	1993.1	1996.6
10°	2202.4	2194.0	2186.9	2148.8	2135.8	2103.7	2063.2	2034.7	2025.2	2028.7	2038.3
12.5°	2307.0	2296.3	2284.4	2245.2	2227.3	2177.4	2129.8	2093.0	2078.7	2087.0	2094.1
15°	2415.2	2409.3	2404.5	2358.1	2333.2	2278.5	2219.0	2172.6	2159.5	2166.7	2170.3
17.5°	2557.9	2554.4	2546.0	2498.5	2450.9	2387.9	2310.6	2261.8	2248.7	2252.3	2244.0
20°	2713.7	2704.2	2699.4	2645.9	2596.0	2509.2	2420.0	2351.0	2347.4	2348.6	2322.5
22.5°	2888.5	2877.8	2868.3	2819.5	2757.7	2656.6	2540.1	2462.8	2465.2	2467.5	2409.3
25°	3066.9	3058.6	3050.2	3003.9	2942.0	2831.4	2691.1	2604.3	2603.1	2604.3	2523.4
27.5°	3253.6	3244.1	3242.9	3204.8	3143.0	3030.0	2868.3	2780.3	2780.3	2775.5	2653.1
30°	3420.1	3429.6	3429.6	3408.2	3349.9	3236.9	3084.7	2996.7	3008.6	2999.1	2843.3
32.5°	3602.0	3599.6	3616.3	3599.6	3552.1	3447.4	3320.2	3264.3	3284.5	3315.4	3159.6
35°	3707.9	3724.5	3766.1	3789.9	3767.3	3681.7	3588.9	3631.8	3659.1	3798.2	3611.5
37.5°	3830.3	3844.6	3901.7	3960.0	3969.5	3923.1	3923.1	4063.4	4116.9	4298.9	4081.3
40°	3914.8	3929.0	3990.9	4058.7	4151.4	4183.5	4266.8	4484.4	4560.5	4683.0	4430.9
42.5°	3864.8	3872.0	4005.2	4170.5	4307.2	4461.8	4593.8	4869.7	4942.2	5027.8	4718.7
45°	3776.8	3789.9	3937.4	4203.7	4439.2	4746.0	4912.5	5232.4	5315.6	5307.3	4939.8
47.5°	3679.3	3699.5	3863.6	4160.9	4552.2	4992.2	5203.8	5536.8	5584.4	5524.9	5093.3
50°	3571.1	3605.6	3780.4	4118.1	4634.2	5207.4	5420.3	5765.1	5790.1	5668.8	5227.6
52.5°	3447.4	3470.0	3663.9	4036.1	4691.3	5350.1	5592.7	5935.2	5945.9	5847.2	5369.1
55°	3276.2	3296.4	3511.6	3926.7	4699.6	5434.5	5703.3	6117.1	6152.8	6056.5	5497.6
57.5°	3091.9	3116.8	3338.0	3768.5	4623.5	5469.0	5836.5	6351.4	6420.4	6282.4	5601.0
60°	2877.8	2909.9	3133.5	3575.9	4473.7	5522.5	6085.0	6692.7	6778.3	6538.1	5699.7
62.5°	2655.4	2673.3	2879.0	3309.5	4240.6	5549.9	6311.0	7082.7	7164.8	6779.5	5746.1
65°	2342.7	2371.2	2554.4	2989.6	3912.4	5432.2	6416.8	7355.1	7414.5	6975.7	5700.9
67.5°	2010.9	2010.9	2166.7	2606.7	3474.8	5120.6	6374.0	7485.9	7557.2	7113.7	5558.2
69°	1781.4	1799.2	1918.1	2318.9	3153.7	4843.5	6327.6	7606.0	7664.3	7069.7	5394.1
70°	1605.4	1620.9	1741.0	2109.6	2914.7	4624.7	6227.7	7552.5	7595.3	6934.1	5221.7
72.5°	1180.9	1193.9	1277.2	1469.8	2191.7	3731.6	5615.3	6828.3	6854.4	6236.1	4606.9
75°	805.1	812.2	875.2	993.0	1278.4	2609.1	4587.9	5767.5	5844.8	5408.4	3772.1
77.5°	278.3	299.7	337.7	456.6	547.0	1025.1	3109.7	4545.0	4660.4	4188.3	2638.8
80°	95.1	93.9	180.8	234.3	287.8	470.9	983.5	1905.1	2013.3	1726.7	950.2
82.5°	71.4	73.7	120.1	129.6	88.0	173.6	382.9	582.7	638.6	557.7	393.6
85°	45.2	44.0	53.5	55.9	40.4	73.7	92.8	93.9	97.5	84.4	85.6
87.5°	25.0	25.0	23.8	20.2	10.7	9.5	8.3	8.3	7.1	7.1	7.1
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°	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2	1956.2
2.5°	1937.2	1953.8	1957.4	1962.1	1974.0	1989.5	2010.9	2010.9	2019.2	2044.2	2052.5
5°	1964.5	1984.7	2010.9	2038.3	2070.4	2104.8	2139.3	2151.2	2167.9	2201.2	2208.3
7.5°	2006.1	2028.7	2073.9	2110.8	2138.1	2172.6	2201.2	2205.9	2227.3	2258.3	2264.2
10°	2049.0	2069.2	2114.4	2133.4	2170.3	2208.3	2222.6	2229.7	2247.5	2271.3	2267.8
12.5°	2107.2	2113.2	2145.3	2158.4	2176.2	2200.0	2207.1	2207.1	2217.8	2255.9	2257.1
15°	2164.3	2164.3	2169.1	2161.9	2164.3	2176.2	2177.4	2161.9	2173.8	2192.8	2185.7
17.5°	2225.0	2208.3	2186.9	2156.0	2128.6	2127.4	2102.5	2065.6	2054.9	2082.3	2081.1
20°	2282.0	2253.5	2202.4	2132.2	2094.1	2043.0	1980.0	1958.6	1957.4	1962.1	1958.6
22.5°	2357.0	2298.7	2205.9	2109.6	2005.0	1924.1	1871.8	1799.2	1796.8	1786.1	1769.5
25°	2446.1	2362.9	2221.4	2084.6	1932.4	1827.8	1701.7	1624.4	1580.4	1589.9	1561.4
27.5°	2561.5	2460.4	2227.3	2029.9	1832.5	1655.3	1503.1	1403.2	1365.2	1348.5	1329.5
30°	2719.7	2563.9	2270.1	1983.6	1708.9	1474.6	1287.9	1142.8	1088.1	1102.4	1104.7
32.5°	2972.9	2760.1	2292.7	1892.0	1566.1	1277.2	1034.6	877.6	845.5	885.9	896.6
35°	3414.1	3064.5	2346.2	1837.3	1403.2	1046.5	769.4	705.2	712.3	746.8	749.2
37.5°	3848.2	3449.8	2511.5	1718.4	1208.2	775.3	597.0	562.5	597.0	641.0	646.9
40°	4152.6	3750.7	2657.8	1600.6	934.7	561.3	455.5	413.8	463.8	533.9	547.0
42.5°	4422.6	3989.7	2761.3	1437.7	639.8	400.8	327.0	337.7	411.5	462.6	474.5
45°	4616.4	4153.8	2832.6	1226.0	407.9	303.2	292.5	327.0	397.2	437.6	441.2
47.5°	4738.9	4250.1	2780.3	965.6	306.8	286.6	287.8	331.8	401.9	447.1	445.9
50°	4849.5	4301.3	2610.2	765.8	291.3	274.7	293.7	344.9	417.4	459.0	456.6
52.5°	4967.2	4351.2	2403.3	600.5	279.5	268.8	300.9	353.2	417.4	443.6	440.0
55°	5068.3	4395.2	2247.5	482.8	271.1	267.6	308.0	366.3	415.0	425.7	418.6
57.5°	5120.6	4320.3	2078.7	405.5	262.8	267.6	312.8	363.9	429.3	463.8	456.6
60°	5092.1	4250.1	1941.9	377.0	250.9	266.4	315.1	390.1	526.8	558.9	556.5
62.5°	5039.7	4172.8	1750.5	338.9	237.8	268.8	313.9	413.8	606.5	595.8	566.0
65°	4932.7	4018.2	1488.9	294.9	224.8	273.5	313.9	466.2	529.2	517.3	504.2
67.5°	4704.4	3684.1	1191.6	253.3	210.5	259.2	309.2	443.6	455.5	424.5	409.1
69°	4448.7	3365.4	943.0	230.7	202.2	252.1	308.0	428.1	448.3	415.0	397.2
70°	4248.9	3116.8	762.3	214.1	193.8	249.7	306.8	417.4	444.8	407.9	388.9
72.5°	3539.0	2518.7	399.6	172.4	165.3	227.1	296.1	407.9	445.9	391.2	363.9
75°	2780.3	1792.1	265.2	132.0	127.2	198.6	271.1	392.4	419.8	352.0	310.4
77.5°	1714.8	784.9	183.1	91.6	92.8	154.6	233.1	350.8	423.3	355.6	302.1
80°	498.3	303.2	116.5	61.8	57.1	91.6	183.1	302.1	401.9	365.1	329.4
82.5°	287.8	197.4	78.5	39.2	34.5	41.6	115.4	234.3	354.4	334.2	341.3
85°	65.4	54.7	28.5	19.0	19.0	23.8	39.2	135.6	245.0	286.6	323.5
87.5°	7.1	7.1	7.1	7.1	7.1	5.9	7.1	36.9	107.0	152.2	177.2
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)