

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: P233853

Luminaire Tested: **VERD-G-C028-D-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233853
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-G-C028-D-U-T3-7030
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 885mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13227 lumens
Efficiency: N/A
Efficacy: 128.4 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

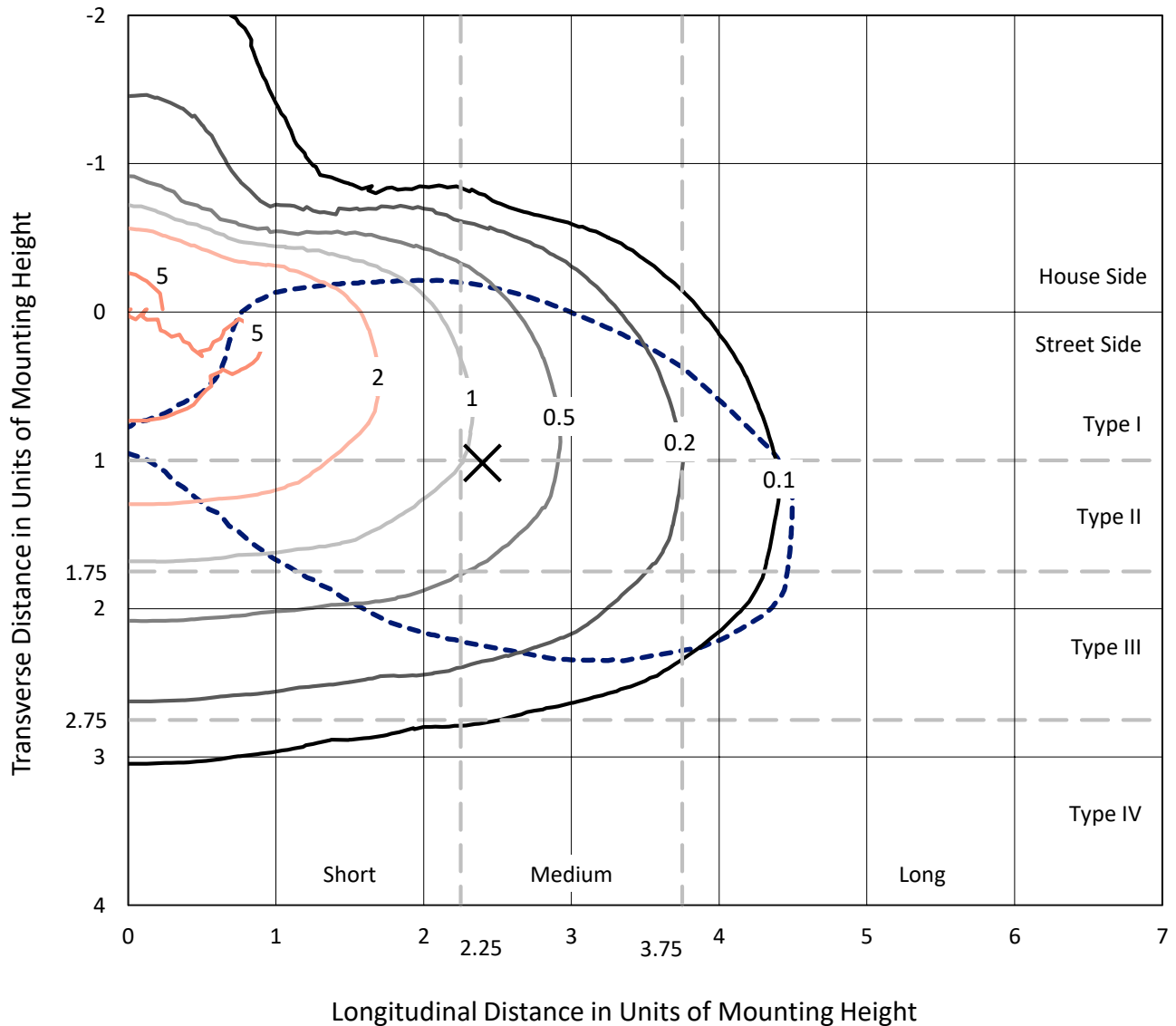
Input Watts (W): 103
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

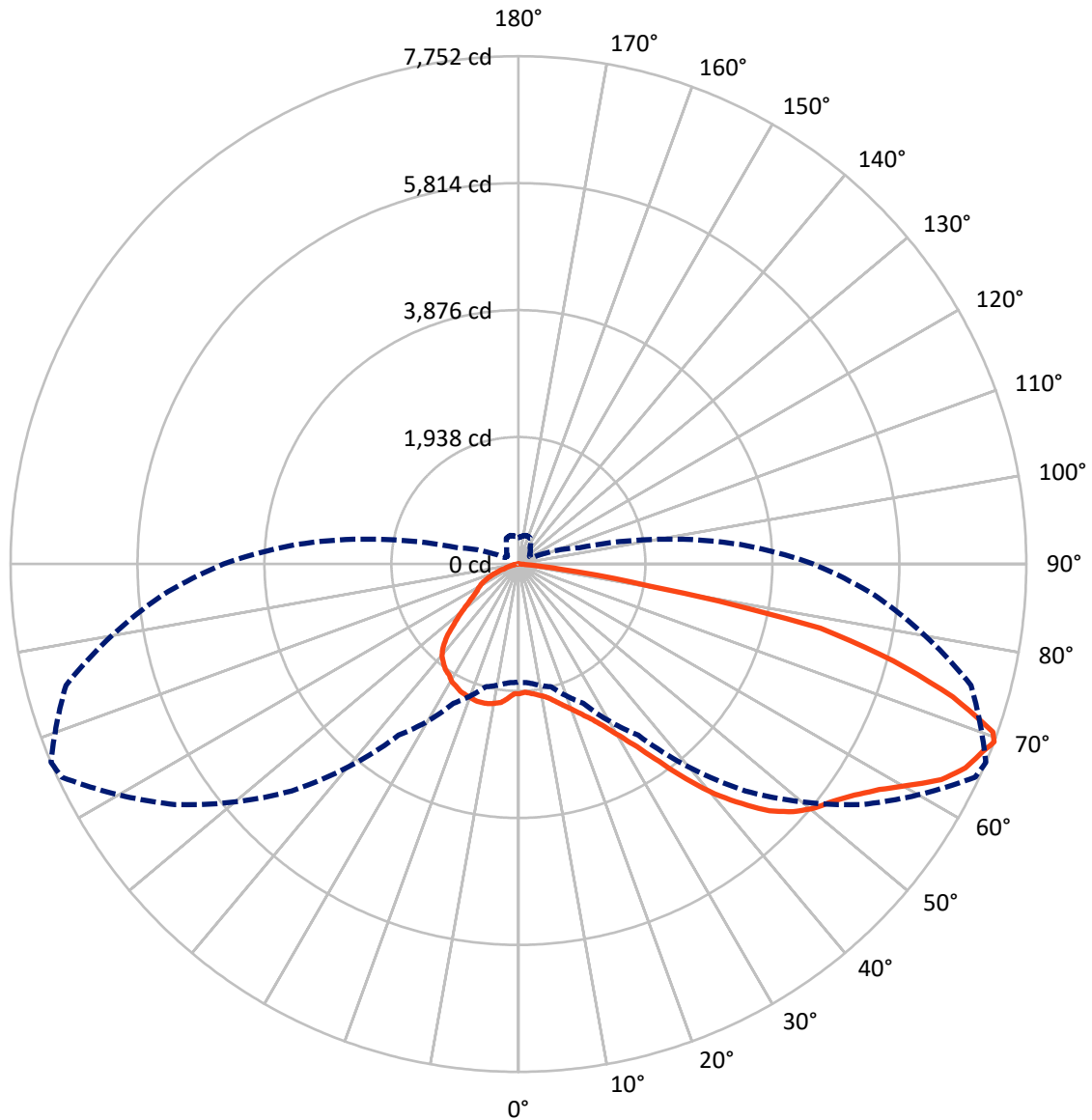
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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
House Side	Lumens	2978.6	0.0	2978.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	10248.4	0.0	10248.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	13227.0	0.0	13227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	1.5
10°-20°	638.6	4.8
20°-30°	1100.2	8.3
30°-40°	1636.4	12.4
40°-50°	2253.7	17.0
50°-60°	2694.1	20.4
60°-70°	2843.1	21.5
70°-80°	1703.7	12.9
80°-90°	156.7	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°	13227.0	100.0
0°-180°	13227.0	100.0

Coefficient of Utilization



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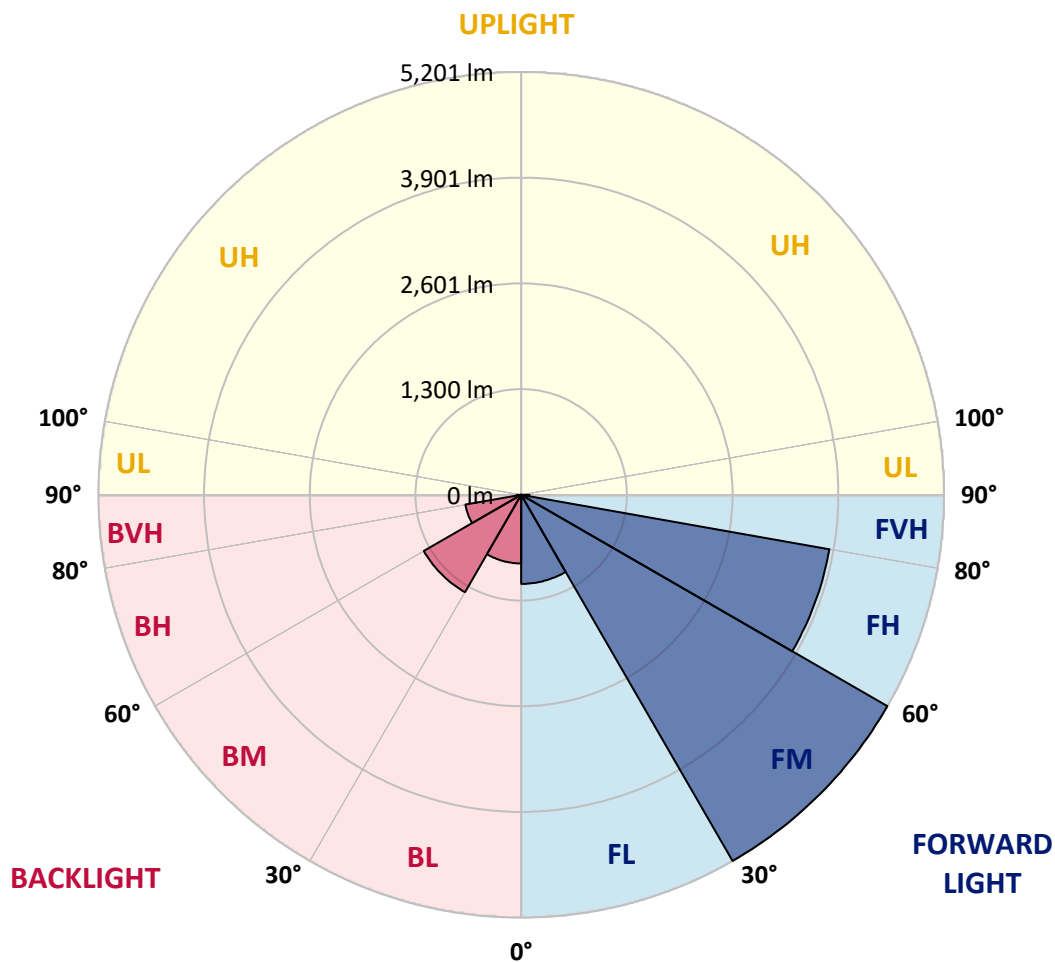
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.2	8.3			
FM	(30°-60°)	5201.4	39.3			
FH	(60°-80°)	3850.4	29.1			G2/5000
FVH	(80°-90°)	101.3	0.8			G2/225
BL	(0°-30°)	844.0	6.4	B2/1000		
BM	(30°-60°)	1382.8	10.5	B2/2500		
BH	(60°-80°)	696.4	5.3	B2/1000		G2/1000
BVH	(80°-90°)	55.4	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°	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	2011.0	2009.8	2003.7	1982.1	1979.7	1977.3	1962.9	1964.1	1960.4	1964.1	1965.3
5°	2066.3	2061.5	2055.5	2032.6	2024.2	2013.4	1991.7	1990.5	1982.1	1984.5	1986.9
7.5°	2134.8	2130.0	2125.2	2098.8	2090.3	2071.1	2037.4	2020.6	2013.4	2015.8	2019.4
10°	2227.5	2219.0	2211.8	2173.3	2160.1	2127.6	2086.7	2057.9	2048.2	2051.9	2061.5
12.5°	2333.3	2322.5	2310.4	2270.7	2252.7	2202.2	2154.1	2116.8	2102.4	2110.8	2118.0
15°	2442.7	2436.7	2431.9	2385.0	2359.8	2304.4	2244.3	2197.4	2184.2	2191.4	2195.0
17.5°	2587.1	2583.5	2575.0	2526.9	2478.8	2415.1	2336.9	2287.6	2274.4	2278.0	2269.5
20°	2744.6	2735.0	2730.2	2676.1	2625.6	2537.8	2447.6	2377.8	2374.2	2375.4	2348.9
22.5°	2921.4	2910.6	2901.0	2851.7	2789.1	2686.9	2569.0	2490.8	2493.3	2495.7	2436.7
25°	3101.8	3093.4	3085.0	3038.1	2975.5	2863.7	2721.8	2634.0	2632.8	2634.0	2552.2
27.5°	3290.7	3281.0	3279.8	3241.4	3178.8	3064.5	2901.0	2812.0	2812.0	2807.2	2683.3
30°	3459.0	3468.7	3468.7	3447.0	3388.1	3273.8	3119.9	3030.9	3042.9	3033.3	2875.7
32.5°	3643.1	3640.7	3657.5	3640.7	3592.5	3486.7	3358.0	3301.5	3321.9	3353.2	3195.6
35°	3750.1	3766.9	3809.0	3833.1	3810.2	3723.6	3629.8	3673.1	3700.8	3841.5	3652.7
37.5°	3874.0	3888.4	3946.1	4005.1	4014.7	3967.8	3967.8	4109.7	4163.8	4347.9	4127.8
40°	3959.4	3973.8	4036.4	4104.9	4198.7	4231.2	4315.4	4535.5	4612.5	4736.3	4481.4
42.5°	3908.9	3916.1	4050.8	4218.0	4356.3	4512.6	4646.1	4925.2	4998.5	5085.1	4772.4
45°	3819.9	3833.1	3982.2	4251.6	4489.8	4800.1	4968.5	5292.0	5376.2	5367.8	4996.1
47.5°	3721.2	3741.7	3907.7	4208.3	4604.0	5049.0	5263.1	5599.9	5648.0	5587.9	5151.3
50°	3611.8	3646.7	3823.5	4165.0	4687.0	5266.7	5482.0	5830.8	5856.1	5733.4	5287.2
52.5°	3486.7	3509.6	3705.6	4082.1	4744.8	5411.1	5656.4	6002.8	6013.6	5913.8	5430.3
55°	3313.5	3334.0	3551.7	3971.4	4753.2	5496.5	5768.3	6186.8	6222.9	6125.5	5560.2
57.5°	3127.1	3152.3	3376.1	3811.4	4676.2	5531.3	5903.0	6423.8	6493.5	6354.0	5664.8
60°	2910.6	2943.1	3169.2	3616.6	4524.7	5585.5	6154.4	6768.9	6855.5	6612.6	5764.7
62.5°	2685.7	2703.7	2911.8	3347.2	4288.9	5613.1	6382.9	7163.4	7246.4	6856.7	5811.6
65°	2369.4	2398.2	2583.5	3023.7	3957.0	5494.1	6489.9	7438.9	7499.0	7055.2	5765.9
67.5°	2033.8	2033.8	2191.4	2636.4	3514.4	5178.9	6446.6	7571.2	7643.3	7194.7	5621.5
69°	1801.7	1819.7	1940.0	2345.3	3189.6	4898.7	6399.7	7692.6	7751.6	7150.2	5455.6
70°	1623.7	1639.3	1760.8	2133.6	2947.9	4677.4	6298.7	7638.5	7681.8	7013.1	5281.2
72.5°	1194.3	1207.5	1291.7	1486.6	2216.6	3774.2	5679.3	6906.1	6932.5	6307.1	4659.4
75°	814.2	821.5	885.2	1004.3	1292.9	2638.8	4640.1	5833.2	5911.4	5470.0	3815.1
77.5°	281.4	303.1	341.6	461.8	553.3	1036.8	3145.1	4596.8	4713.5	4236.0	2668.9
80°	96.2	95.0	182.8	236.9	291.1	476.3	994.7	1926.8	2036.2	1746.4	961.0
82.5°	72.2	74.6	121.5	131.1	89.0	175.6	387.3	589.3	645.9	564.1	398.1
85°	45.7	44.5	54.1	56.5	40.9	74.6	93.8	95.0	98.6	85.4	86.6
87.5°	25.3	25.3	24.1	20.4	10.8	9.6	8.4	8.4	7.2	7.2	7.2
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°	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1959.2	1976.1	1979.7	1984.5	1996.5	2012.2	2033.8	2033.8	2042.2	2067.5	2075.9
5°	1986.9	2007.4	2033.8	2061.5	2093.9	2128.8	2163.7	2175.7	2192.6	2226.2	2233.5
7.5°	2029.0	2051.9	2097.6	2134.8	2162.5	2197.4	2226.2	2231.1	2252.7	2284.0	2290.0
10°	2072.3	2092.7	2138.4	2157.7	2195.0	2233.5	2247.9	2255.1	2273.2	2297.2	2293.6
12.5°	2131.2	2137.2	2169.7	2183.0	2201.0	2225.0	2232.3	2232.3	2243.1	2281.6	2282.8
15°	2189.0	2189.0	2193.8	2186.6	2189.0	2201.0	2202.2	2186.6	2198.6	2217.8	2210.6
17.5°	2250.3	2233.5	2211.8	2180.5	2152.9	2151.7	2126.4	2089.1	2078.3	2106.0	2104.8
20°	2308.0	2279.2	2227.5	2156.5	2118.0	2066.3	2002.5	1980.9	1979.7	1984.5	1980.9
22.5°	2383.8	2324.9	2231.1	2133.6	2027.8	1946.0	1893.1	1819.7	1817.3	1806.5	1789.7
25°	2474.0	2389.8	2246.7	2108.4	1954.4	1848.6	1721.1	1642.9	1598.4	1608.0	1579.2
27.5°	2590.7	2488.4	2252.7	2053.1	1853.4	1674.2	1520.2	1419.2	1380.7	1363.9	1344.6
30°	2750.6	2593.1	2296.0	2006.1	1728.3	1491.4	1302.6	1155.8	1100.5	1114.9	1117.3
32.5°	3006.8	2791.5	2318.9	1913.5	1584.0	1291.7	1046.4	887.6	855.1	896.0	906.9
35°	3453.0	3099.4	2373.0	1858.2	1419.2	1058.4	778.2	713.2	720.4	755.3	757.7
37.5°	3892.0	3489.1	2540.2	1737.9	1222.0	784.2	603.8	568.9	603.8	648.3	654.3
40°	4199.9	3793.4	2688.1	1618.9	945.3	567.7	460.6	418.5	469.1	540.0	553.3
42.5°	4472.9	4035.2	2792.7	1454.1	647.1	405.3	330.8	341.6	416.1	467.9	479.9
45°	4669.0	4201.1	2864.9	1240.0	412.5	306.7	295.9	330.8	401.7	442.6	446.2
47.5°	4792.9	4298.5	2812.0	976.6	310.3	289.9	291.1	335.6	406.5	452.2	451.0
50°	4904.7	4350.3	2640.0	774.6	294.7	277.8	297.1	348.8	422.2	464.3	461.8
52.5°	5023.8	4400.8	2430.7	607.4	282.6	271.8	304.3	357.2	422.2	448.6	445.0
55°	5126.0	4445.3	2273.2	488.3	274.2	270.6	311.5	370.4	419.8	430.6	423.4
57.5°	5178.9	4369.5	2102.4	410.1	265.8	270.6	316.3	368.0	434.2	469.1	461.8
60°	5150.1	4298.5	1964.1	381.3	253.8	269.4	318.7	394.5	532.8	565.3	562.9
62.5°	5097.2	4220.4	1770.4	342.8	240.5	271.8	317.5	418.5	613.4	602.6	572.5
65°	4988.9	4064.0	1505.8	298.3	227.3	276.6	317.5	471.5	535.2	523.2	510.0
67.5°	4758.0	3726.0	1205.1	256.2	212.9	262.2	312.7	448.6	460.6	429.4	413.7
69°	4499.4	3403.7	953.8	233.3	204.5	255.0	311.5	433.0	453.4	419.8	401.7
70°	4297.3	3152.3	770.9	216.5	196.0	252.6	310.3	422.2	449.8	412.5	393.3
72.5°	3579.3	2547.4	404.1	174.4	167.2	229.7	299.5	412.5	451.0	395.7	368.0
75°	2812.0	1812.5	268.2	133.5	128.7	200.9	274.2	396.9	424.6	356.0	313.9
77.5°	1734.3	793.8	185.2	92.6	93.8	156.4	235.7	354.8	428.2	359.6	305.5
80°	503.9	306.7	117.9	62.5	57.7	92.6	185.2	305.5	406.5	369.2	333.2
82.5°	291.1	199.7	79.4	39.7	34.9	42.1	116.7	236.9	358.4	338.0	345.2
85°	66.2	55.3	28.9	19.2	19.2	24.1	39.7	137.1	247.8	289.9	327.1
87.5°	7.2	7.2	7.2	7.2	7.2	6.0	7.2	37.3	108.2	153.9	179.2
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)