

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: P233923

Luminaire Tested: **VERD-G-C02-D-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)  
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-T2-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1175mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15517 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2  
  
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

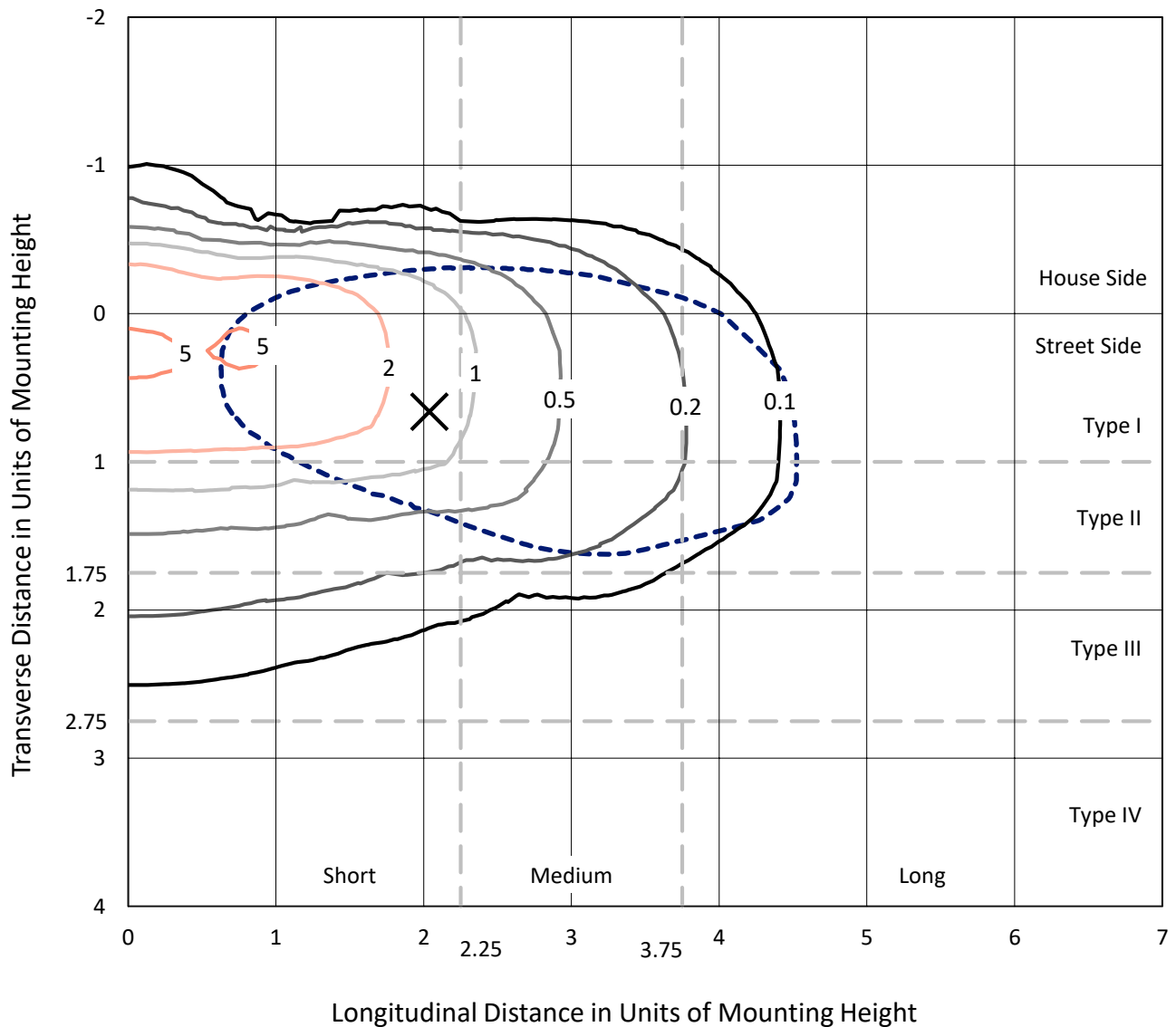


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

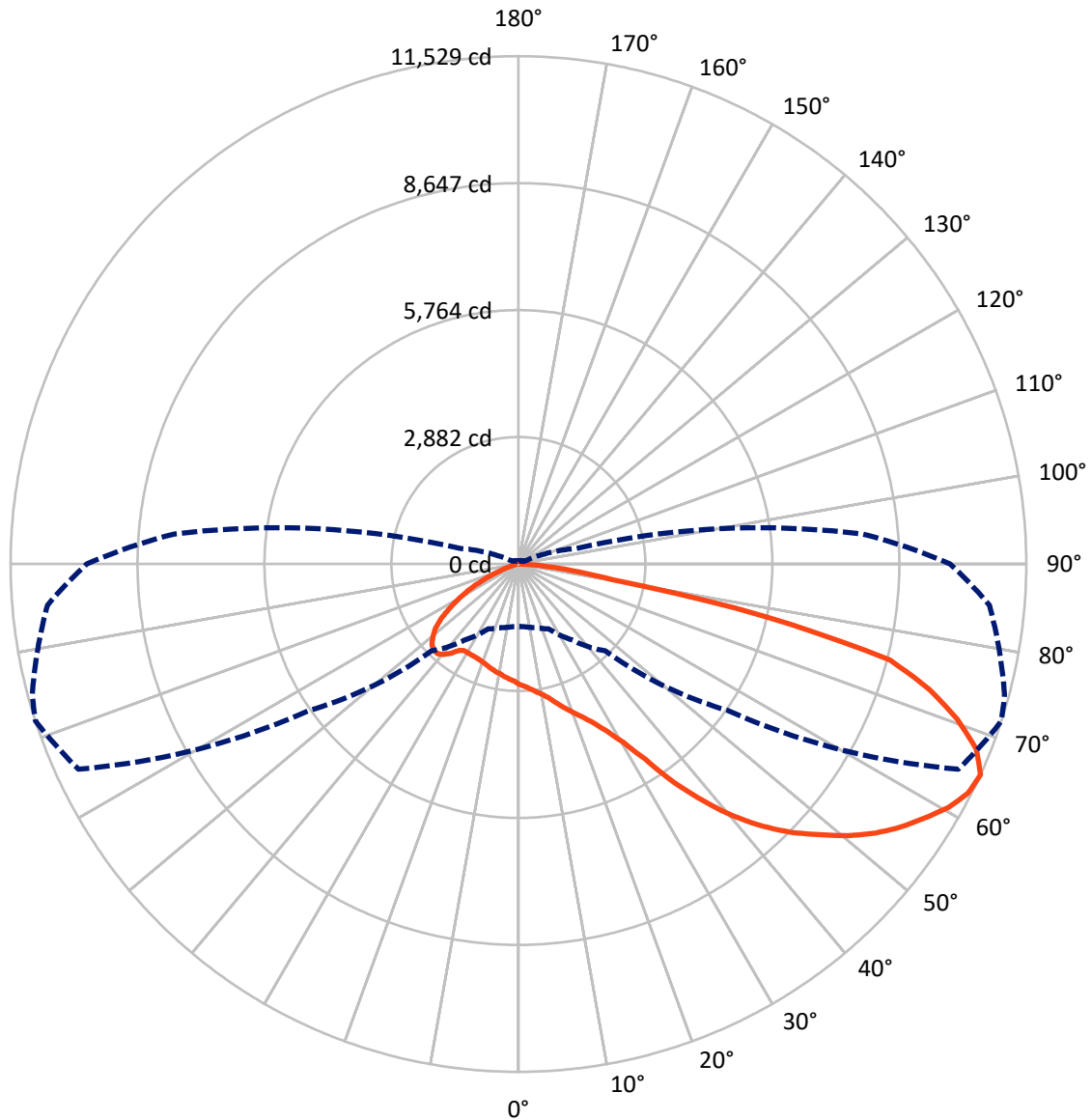


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3224.5	0.0	3224.5
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	12292.5	0.0	12292.5
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	15517.0	0.0	15517.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.1	1.7
10°-20°	795.6	5.1
20°-30°	1329.5	8.6
30°-40°	1966.7	12.7
40°-50°	2718.9	17.5
50°-60°	3181.6	20.5
60°-70°	3162.4	20.4
70°-80°	1894.0	12.2
80°-90°	206.2	1.3
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°	15517.0	100.0
0°-180°	15517.0	100.0



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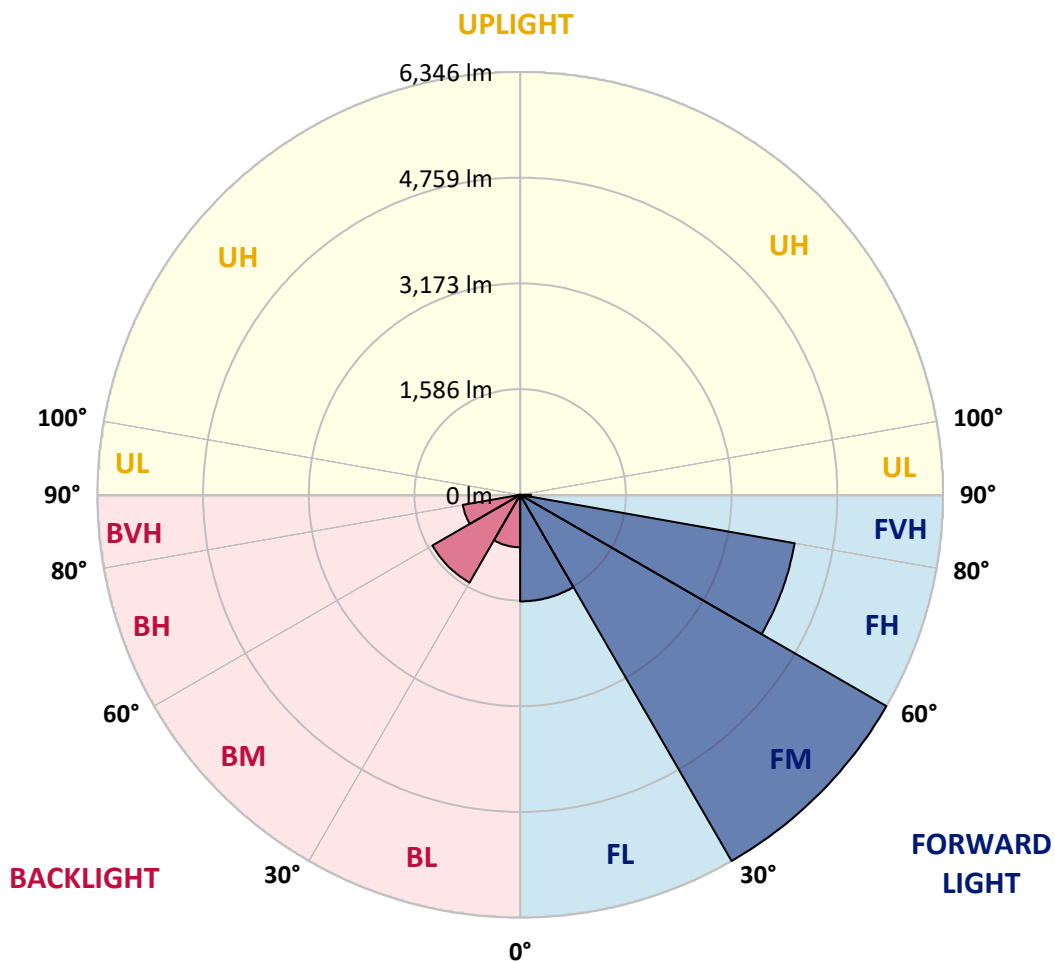
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.1	10.3			
FM (30°-60°)	6346.0	40.9			
FH (60°-80°)	4183.4	27.0			G2/5000
FVH (80°-90°)	163.0	1.1			G2/225
BL (0°-30°)	787.2	5.1	B2/1000		
BM (30°-60°)	1521.1	9.8	B2/2500		
BH (60°-80°)	873.0	5.6	B2/1000		G2/1000
BVH (80°-90°)	43.2	0.3			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7
2.5°	2965.2	2967.7	2968.9	2922.1	2896.8	2867.7	2839.8	2809.4	2777.8	2766.4	2724.6
5°	3147.5	3150.0	3142.4	3099.4	3052.5	3009.5	2956.3	2901.8	2848.7	2833.5	2762.6
7.5°	3323.5	3322.2	3315.9	3261.4	3203.2	3146.2	3071.5	2998.1	2928.4	2904.4	2799.3
10°	3469.0	3471.6	3475.4	3417.1	3360.2	3291.8	3200.6	3091.8	3012.0	2974.0	2837.3
12.5°	3628.6	3621.0	3631.1	3574.1	3495.6	3433.6	3351.3	3223.4	3128.5	3080.4	2910.7
15°	3810.9	3810.9	3797.0	3750.1	3670.4	3594.4	3512.1	3394.4	3280.4	3207.0	3009.5
17.5°	3936.2	3928.6	3924.8	3884.3	3816.0	3750.1	3686.8	3566.5	3442.5	3352.6	3101.9
20°	3989.4	3991.9	4009.7	3980.5	3943.8	3904.6	3834.9	3741.3	3604.5	3508.3	3200.6
22.5°	4092.0	4094.5	4116.0	4095.8	4085.6	4075.5	4010.9	3928.6	3783.0	3690.6	3324.7
25°	4098.3	4100.8	4159.1	4192.0	4243.9	4267.9	4223.6	4152.7	4004.6	3914.7	3509.6
27.5°	4117.3	4124.9	4184.4	4275.5	4412.3	4460.4	4435.1	4432.5	4307.2	4212.2	3750.1
30°	4100.8	4108.4	4194.5	4321.1	4511.0	4652.8	4681.9	4756.6	4706.0	4635.1	4084.4
32.5°	3984.3	4012.2	4114.7	4316.1	4595.9	4852.9	4946.6	5202.3	5278.3	5285.9	4755.4
35°	3772.9	3788.1	3974.2	4257.8	4652.8	5041.5	5299.8	5772.0	6093.6	6079.7	5498.6
37.5°	3612.1	3617.2	3808.4	4159.1	4684.5	5244.1	5702.4	6458.3	6827.9	6844.4	6169.6
40°	3405.7	3442.5	3626.0	4040.0	4666.8	5415.0	6102.5	7097.6	7528.1	7510.4	6758.3
42.5°	3213.3	3234.8	3417.1	3853.9	4602.2	5545.4	6495.0	7716.7	8139.6	8081.4	7323.0
45°	3013.3	3050.0	3217.1	3613.4	4474.3	5618.8	6850.7	8304.2	8691.6	8619.4	7820.6
47.5°	2813.2	2839.8	3017.1	3393.1	4233.8	5616.3	7200.2	8854.9	9181.6	9130.9	8291.5
50°	2140.9	2199.2	2665.1	3162.7	3895.7	5510.0	7482.5	9377.8	9695.6	9617.1	8751.1
52.5°	1962.4	1981.4	2111.8	2895.5	3534.9	5256.7	7702.8	9869.1	10148.9	10059.0	9184.1
55°	1854.8	1877.6	1930.8	2353.6	3238.6	4840.2	7794.0	10327.4	10536.3	10445.1	9570.3
57.5°	1711.7	1734.5	1839.6	2027.0	2929.7	4205.9	7659.8	10733.8	10879.4	10779.4	9928.6
60°	1613.0	1623.1	1724.4	1871.3	2591.7	3565.3	7211.6	11064.2	11216.2	11097.2	10283.1
62.5°	1521.8	1533.2	1605.4	1751.0	2311.9	3095.6	6514.0	11145.3	11455.5	11363.0	10607.2
65°	1416.7	1426.9	1492.7	1621.8	2095.4	2789.2	5794.8	11021.2	11528.9	11423.8	10732.5
67.5°	1277.5	1291.4	1343.3	1459.8	1811.8	2442.3	4725.0	10792.0	11207.3	11098.4	10475.5
70°	1105.3	1111.6	1173.7	1278.7	1530.7	2119.4	3705.8	9976.7	10570.5	10450.2	9751.3
72.5°	892.6	904.0	971.1	1081.2	1257.2	1745.9	2647.4	8620.7	9764.0	9718.4	8696.7
75°	596.3	640.6	800.2	911.6	1039.4	1363.6	1777.6	6050.6	8716.9	8752.4	7429.3
77.5°	113.9	117.7	335.5	498.8	607.7	833.1	1100.2	2972.7	5745.5	6367.1	5602.4
80°	74.7	81.0	143.1	349.4	402.6	412.7	564.7	1302.8	2165.0	2738.5	3231.0
82.5°	39.2	46.8	86.1	202.6	184.8	102.6	184.8	672.3	1200.2	1378.8	1629.4
85°	16.5	19.0	41.8	69.6	51.9	43.0	43.0	268.4	531.8	615.3	639.4
87.5°	2.5	2.5	8.9	12.7	7.6	5.1	3.8	1.3	1.3	1.3	1.3
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°	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7	2734.7
2.5°	2724.6	2701.8	2670.2	2633.4	2606.9	2592.9	2581.5	2551.1	2541.0	2561.3	2556.2
5°	2736.0	2709.4	2637.2	2577.7	2518.2	2481.5	2441.0	2387.8	2365.0	2377.7	2373.9
7.5°	2743.6	2710.7	2603.1	2510.6	2410.6	2341.0	2287.8	2218.2	2184.0	2196.6	2181.4
10°	2755.0	2705.6	2562.5	2439.7	2309.3	2208.0	2129.5	2048.5	2013.1	2023.2	2010.5
12.5°	2803.1	2723.3	2543.5	2379.0	2219.4	2092.8	1994.1	1908.0	1857.3	1867.5	1857.3
15°	2881.6	2758.8	2515.7	2301.7	2124.5	1980.1	1866.2	1767.4	1709.2	1723.1	1710.5
17.5°	2963.9	2801.8	2490.4	2215.6	2023.2	1862.4	1743.4	1659.8	1566.1	1575.0	1556.0
20°	3034.8	2842.3	2476.4	2134.6	1928.2	1737.1	1594.0	1537.0	1407.9	1375.0	1353.4
22.5°	3133.5	2901.8	2465.1	2068.8	1810.5	1611.7	1442.1	1335.7	1196.4	1126.8	1120.5
25°	3274.1	2990.5	2463.8	2016.9	1704.1	1480.0	1243.3	1064.8	942.0	859.7	848.3
27.5°	3452.6	3108.2	2477.7	1965.0	1597.8	1314.2	998.9	801.4	691.3	628.0	616.6
30°	3709.6	3262.7	2495.4	1905.4	1478.8	1099.0	744.5	590.0	498.8	453.3	444.4
32.5°	4260.3	3659.0	2522.0	1843.4	1335.7	828.0	540.6	427.9	358.3	330.4	344.4
35°	4923.8	4197.0	2641.0	1763.6	1148.3	590.0	390.0	305.1	257.0	263.3	270.9
37.5°	5503.6	4711.1	2908.2	1661.1	897.6	433.0	268.4	227.9	227.9	248.2	265.9
40°	6050.6	5174.5	3147.5	1521.8	629.2	298.8	207.6	211.4	207.6	220.3	216.5
42.5°	6567.1	5613.8	3334.8	1356.0	411.5	206.4	188.6	196.2	189.9	192.4	181.0
45°	7055.8	6068.3	3438.7	1111.6	273.5	179.8	173.5	186.1	184.8	182.3	170.9
47.5°	7507.8	6468.4	3490.6	801.4	188.6	162.1	163.3	172.2	176.0	173.5	167.1
50°	7951.0	6867.2	3443.7	479.8	169.7	148.1	157.0	157.0	164.6	150.7	145.6
52.5°	8375.1	7267.3	3295.6	291.2	155.7	138.0	145.6	143.1	146.9	132.9	130.4
55°	8773.9	7564.8	3003.1	229.2	146.9	131.7	132.9	135.5	129.1	113.9	119.0
57.5°	9195.5	7818.0	2595.5	207.6	143.1	122.8	125.3	124.1	113.9	100.0	100.0
60°	9542.4	8001.6	2186.5	188.6	140.5	120.3	111.4	108.9	93.7	86.1	84.8
62.5°	9781.7	8053.5	1787.7	168.4	132.9	111.4	100.0	92.4	78.5	70.9	68.4
65°	9800.7	7831.9	1361.0	151.9	125.3	103.8	92.4	76.0	62.0	55.7	53.2
67.5°	9412.0	7216.6	959.7	139.3	112.7	96.2	81.0	60.8	49.4	44.3	43.0
70°	8599.2	6451.9	587.5	121.5	102.6	89.9	83.6	49.4	40.5	34.2	34.2
72.5°	7545.8	5588.5	344.4	103.8	86.1	72.2	55.7	41.8	34.2	26.6	26.6
75°	6467.1	4436.3	211.4	78.5	63.3	57.0	43.0	35.5	27.9	20.3	20.3
77.5°	4656.6	3275.3	164.6	50.6	39.2	40.5	31.7	27.9	22.8	16.5	16.5
80°	2857.5	1994.1	117.7	34.2	22.8	22.8	22.8	21.5	16.5	13.9	12.7
82.5°	1448.4	911.6	58.2	20.3	13.9	13.9	13.9	15.2	12.7	10.1	10.1
85°	509.0	255.7	17.7	10.1	8.9	8.9	7.6	7.6	6.3	5.1	5.1
87.5°	1.3	2.5	2.5	3.8	5.1	5.1	3.8	2.5	1.3	0.0	0.0
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)