

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: P233918

Luminaire Tested: **VERD-G-C029-D-U-T2-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233918  
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-C029-D-U-T2-7030-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1040mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13687 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

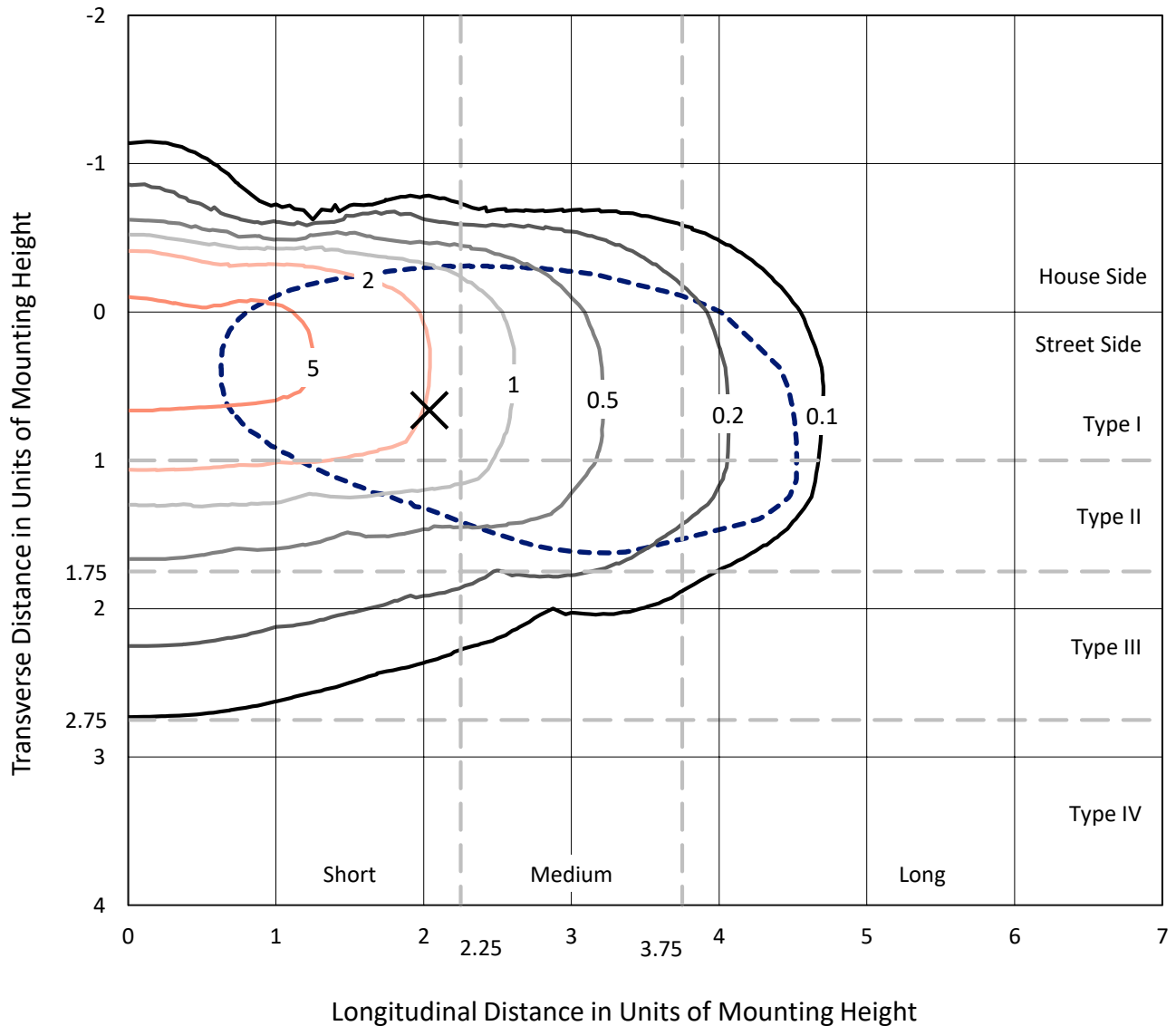
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

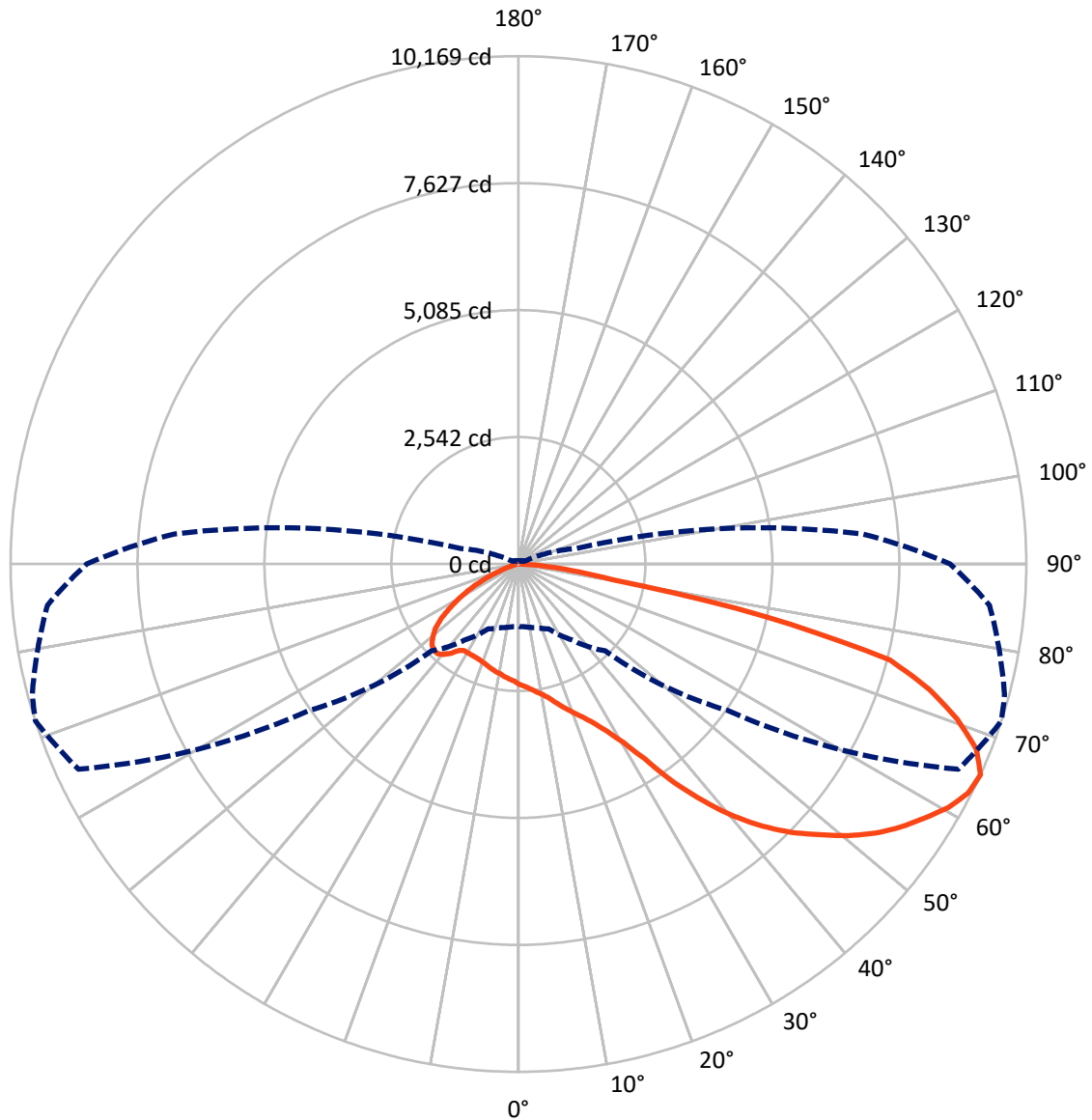
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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	2844.2	0.0	2844.2
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	10842.8	0.0	10842.8
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	13687.0	0.0	13687.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.2	1.7
10°-20°	701.8	5.1
20°-30°	1172.7	8.6
30°-40°	1734.7	12.7
40°-50°	2398.2	17.5
50°-60°	2806.3	20.5
60°-70°	2789.4	20.4
70°-80°	1670.7	12.2
80°-90°	181.9	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°	13687.0	100.0
0°-180°	13687.0	100.0



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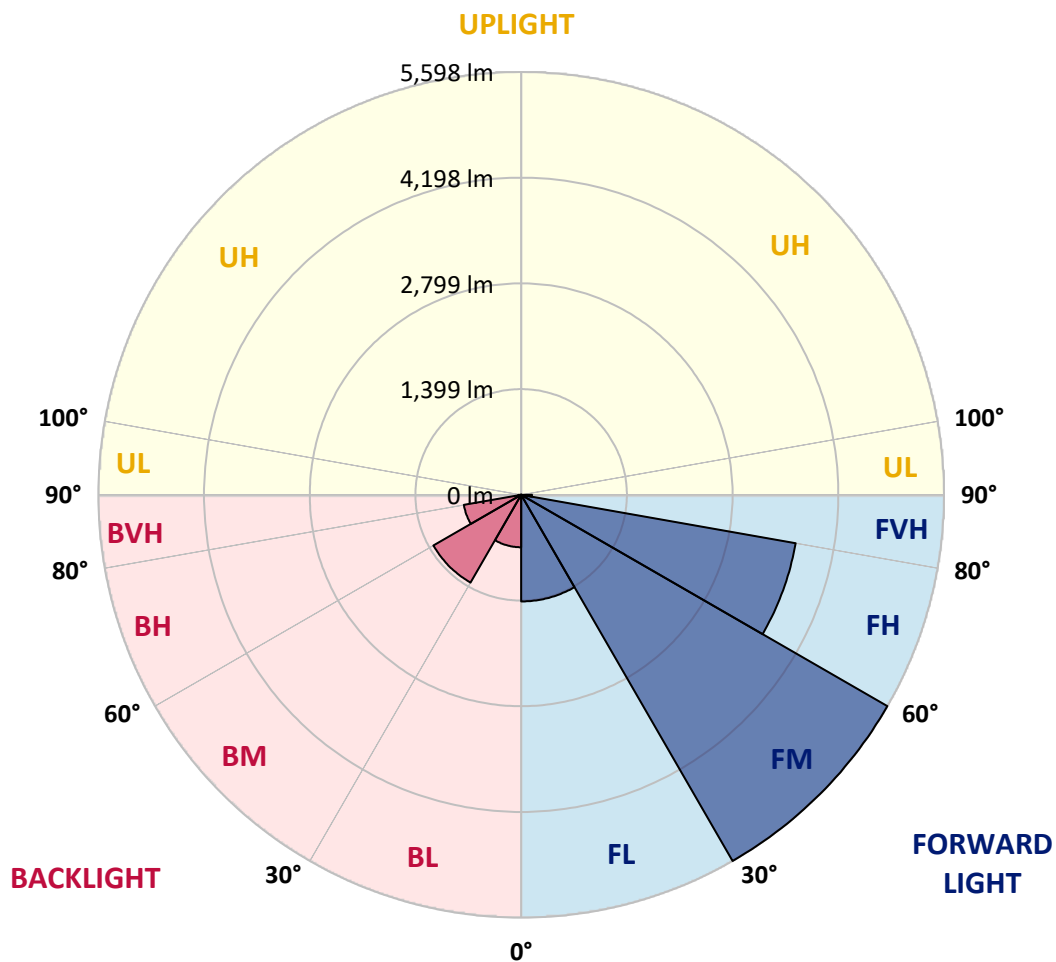
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.4	10.3			
FM (30°-60°)	5597.6	40.9			
FH (60°-80°)	3690.0	27.0			G2/5000
FVH (80°-90°)	143.8	1.1			G2/225
BL (0°-30°)	694.3	5.1	B2/1000		
BM (30°-60°)	1341.7	9.8	B2/2500		
BH (60°-80°)	770.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	38.1	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°	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2
2.5°	2615.5	2617.7	2618.8	2577.5	2555.1	2529.5	2504.9	2478.1	2450.2	2440.1	2403.3
5°	2776.3	2778.5	2771.8	2733.8	2692.5	2654.5	2607.6	2559.6	2512.7	2499.3	2436.8
7.5°	2931.5	2930.4	2924.8	2876.8	2825.4	2775.2	2709.3	2644.5	2583.1	2561.9	2469.2
10°	3059.9	3062.2	3065.5	3014.1	2963.9	2903.6	2823.2	2727.1	2656.8	2623.3	2502.7
12.5°	3200.6	3193.9	3202.9	3152.6	3083.4	3028.7	2956.1	2843.3	2759.5	2717.1	2567.4
15°	3361.5	3361.5	3349.2	3307.8	3237.5	3170.5	3097.9	2994.0	2893.5	2828.8	2654.5
17.5°	3472.0	3465.3	3462.0	3426.2	3365.9	3307.8	3252.0	3145.9	3036.5	2957.2	2736.1
20°	3518.9	3521.1	3536.8	3511.1	3478.7	3444.1	3382.7	3300.0	3179.4	3094.5	2823.2
22.5°	3609.4	3611.6	3630.6	3612.7	3603.8	3594.9	3537.9	3465.3	3336.9	3255.4	2932.6
25°	3615.0	3617.2	3668.6	3697.6	3743.4	3764.6	3725.5	3663.0	3532.3	3453.0	3095.7
27.5°	3631.7	3638.4	3690.9	3771.3	3891.9	3934.4	3912.0	3909.8	3799.2	3715.5	3307.8
30°	3617.2	3623.9	3699.8	3811.5	3979.0	4104.1	4129.8	4195.7	4151.0	4088.5	3602.7
32.5°	3514.4	3539.0	3629.5	3807.0	4053.8	4280.5	4363.2	4588.8	4655.8	4662.5	4194.6
35°	3327.9	3341.3	3505.5	3755.7	4104.1	4446.9	4674.8	5091.3	5375.0	5362.7	4850.1
37.5°	3186.1	3190.6	3359.2	3668.6	4132.0	4625.6	5029.9	5696.6	6022.7	6037.2	5442.0
40°	3004.1	3036.5	3198.4	3563.6	4116.4	4776.4	5382.8	6260.6	6640.3	6624.6	5961.3
42.5°	2834.3	2853.3	3014.1	3399.4	4059.4	4891.4	5729.0	6806.7	7179.7	7128.3	6459.3
45°	2657.9	2690.3	2837.7	3187.2	3946.6	4956.2	6042.8	7324.8	7666.6	7602.9	6898.2
47.5°	2481.4	2504.9	2661.2	2992.9	3734.4	4954.0	6351.0	7810.6	8098.8	8054.1	7313.7
50°	1888.4	1939.8	2350.8	2789.7	3436.3	4860.1	6600.1	8271.9	8552.2	8482.9	7719.1
52.5°	1731.0	1747.7	1862.8	2554.0	3118.0	4636.8	6794.4	8705.2	8952.0	8872.7	8101.0
55°	1636.1	1656.2	1703.1	2076.1	2856.7	4269.4	6874.8	9109.4	9293.7	9213.3	8441.6
57.5°	1509.9	1530.0	1622.7	1787.9	2584.2	3709.9	6756.4	9467.9	9596.3	9508.1	8757.6
60°	1422.8	1431.7	1521.0	1650.6	2286.0	3144.8	6361.1	9759.4	9893.4	9788.4	9070.3
62.5°	1342.3	1352.4	1416.1	1544.5	2039.2	2730.5	5745.7	9830.8	10104.5	10022.9	9356.2
65°	1249.7	1258.6	1316.7	1430.6	1848.2	2460.2	5111.4	9721.4	10169.2	10076.5	9466.8
67.5°	1126.8	1139.1	1184.9	1287.6	1598.1	2154.2	4167.8	9519.3	9885.6	9789.5	9240.1
70°	974.9	980.5	1035.2	1127.9	1350.2	1869.5	3268.8	8800.1	9323.8	9217.7	8601.3
72.5°	787.3	797.4	856.6	953.7	1108.9	1540.0	2335.1	7604.0	8612.5	8572.3	7671.0
75°	526.0	565.1	705.8	804.1	916.9	1202.8	1567.9	5337.0	7688.9	7720.2	6553.2
77.5°	100.5	103.9	295.9	440.0	536.0	734.8	970.5	2622.2	5067.9	5616.2	4941.7
80°	65.9	71.5	126.2	308.2	355.1	364.1	498.1	1149.1	1909.7	2415.6	2850.0
82.5°	34.6	41.3	75.9	178.7	163.0	90.5	163.0	593.0	1058.7	1216.2	1437.3
85°	14.5	16.8	36.9	61.4	45.8	38.0	38.0	236.8	469.0	542.7	564.0
87.5°	2.2	2.2	7.8	11.2	6.7	4.5	3.4	1.1	1.1	1.1	1.1
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°	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2	2412.2
2.5°	2403.3	2383.2	2355.2	2322.9	2299.4	2287.1	2277.1	2250.3	2241.3	2259.2	2254.7
5°	2413.3	2389.9	2326.2	2273.7	2221.2	2188.9	2153.1	2106.2	2086.1	2097.3	2093.9
7.5°	2420.0	2391.0	2296.1	2214.5	2126.3	2064.9	2018.0	1956.6	1926.4	1937.6	1924.2
10°	2430.1	2386.5	2260.3	2152.0	2037.0	1947.6	1878.4	1806.9	1775.7	1784.6	1773.4
12.5°	2472.5	2402.2	2243.6	2098.4	1957.7	1846.0	1758.9	1683.0	1638.3	1647.2	1638.3
15°	2541.7	2433.4	2219.0	2030.3	1873.9	1746.6	1646.1	1559.0	1507.6	1519.9	1508.7
17.5°	2614.3	2471.4	2196.7	1954.3	1784.6	1642.8	1537.8	1464.1	1381.4	1389.3	1372.5
20°	2676.9	2507.1	2184.4	1882.9	1700.8	1532.2	1406.0	1355.7	1241.8	1212.8	1193.8
22.5°	2764.0	2559.6	2174.3	1824.8	1597.0	1421.6	1272.0	1178.2	1055.3	993.9	988.3
25°	2887.9	2637.8	2173.2	1779.0	1503.2	1305.5	1096.7	939.2	830.9	758.3	748.2
27.5°	3045.4	2741.6	2185.5	1733.2	1409.4	1159.2	881.1	706.9	609.8	553.9	543.9
30°	3272.1	2877.9	2201.1	1680.7	1304.4	969.3	656.7	520.4	440.0	399.8	392.0
32.5°	3757.9	3227.4	2224.6	1626.0	1178.2	730.4	476.9	377.5	316.0	291.5	303.8
35°	4343.1	3702.1	2329.6	1555.6	1012.9	520.4	344.0	269.1	226.7	232.3	239.0
37.5°	4854.6	4155.5	2565.2	1465.2	791.8	381.9	236.8	201.0	201.0	218.9	234.5
40°	5337.0	4564.2	2776.3	1342.3	555.0	263.6	183.1	186.5	183.1	194.3	191.0
42.5°	5792.6	4951.7	2941.5	1196.1	362.9	182.0	166.4	173.1	167.5	169.7	159.7
45°	6223.7	5352.6	3033.1	980.5	241.2	158.6	153.0	164.2	163.0	160.8	150.8
47.5°	6622.4	5705.5	3078.9	706.9	166.4	142.9	144.1	151.9	155.2	153.0	147.4
50°	7013.3	6057.3	3037.6	423.3	149.6	130.7	138.5	138.5	145.2	132.9	128.4
52.5°	7387.4	6410.2	2906.9	256.9	137.4	121.7	128.4	126.2	129.5	117.3	115.0
55°	7739.2	6672.6	2649.0	202.1	129.5	116.1	117.3	119.5	113.9	100.5	105.0
57.5°	8111.0	6896.0	2289.4	183.1	126.2	108.3	110.6	109.4	100.5	88.2	88.2
60°	8417.0	7057.9	1928.6	166.4	124.0	106.1	98.3	96.0	82.6	75.9	74.8
62.5°	8628.1	7103.7	1576.9	148.5	117.3	98.3	88.2	81.5	69.2	62.5	60.3
65°	8644.8	6908.3	1200.5	134.0	110.6	91.6	81.5	67.0	54.7	49.1	46.9
67.5°	8302.0	6365.5	846.5	122.8	99.4	84.9	71.5	53.6	43.6	39.1	38.0
70°	7585.0	5691.0	518.2	107.2	90.5	79.3	73.7	43.6	35.7	30.2	30.2
72.5°	6655.9	4929.4	303.8	91.6	75.9	63.7	49.1	36.9	30.2	23.5	23.5
75°	5704.4	3913.1	186.5	69.2	55.8	50.3	38.0	31.3	24.6	17.9	17.9
77.5°	4107.4	2889.1	145.2	44.7	34.6	35.7	27.9	24.6	20.1	14.5	14.5
80°	2520.5	1758.9	103.9	30.2	20.1	20.1	20.1	19.0	14.5	12.3	11.2
82.5°	1277.6	804.1	51.4	17.9	12.3	12.3	12.3	13.4	11.2	8.9	8.9
85°	448.9	225.6	15.6	8.9	7.8	7.8	6.7	6.7	5.6	4.5	4.5
87.5°	1.1	2.2	2.2	3.4	4.5	4.5	3.4	2.2	1.1	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)