

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: P509213

Luminaire Tested: **VERD-CA2-130-730-U-T2**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-130-730-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1180mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17814 lumens  
Efficiency: N/A  
Efficacy: 135.2 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

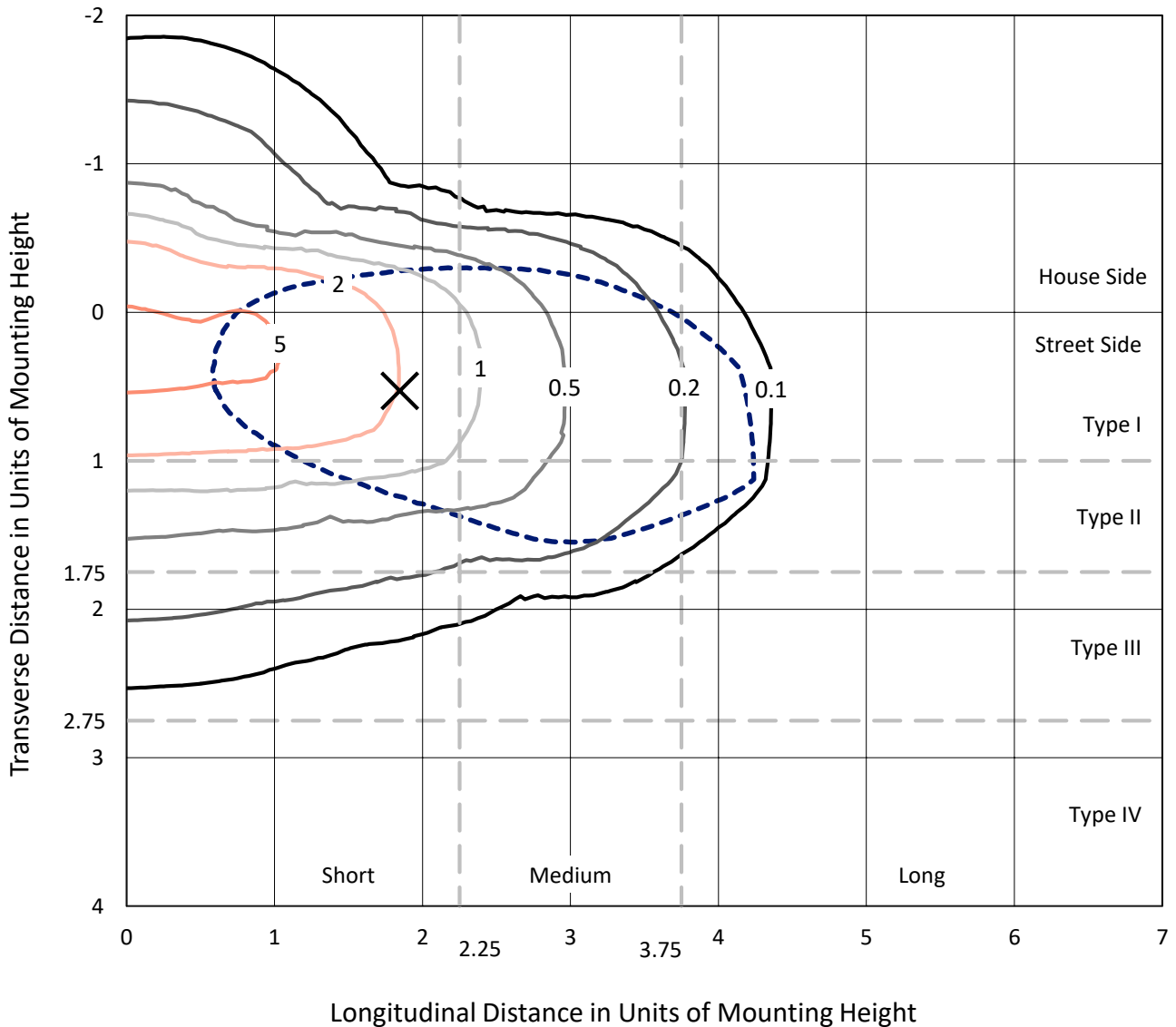
Input Watts (W): 131.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

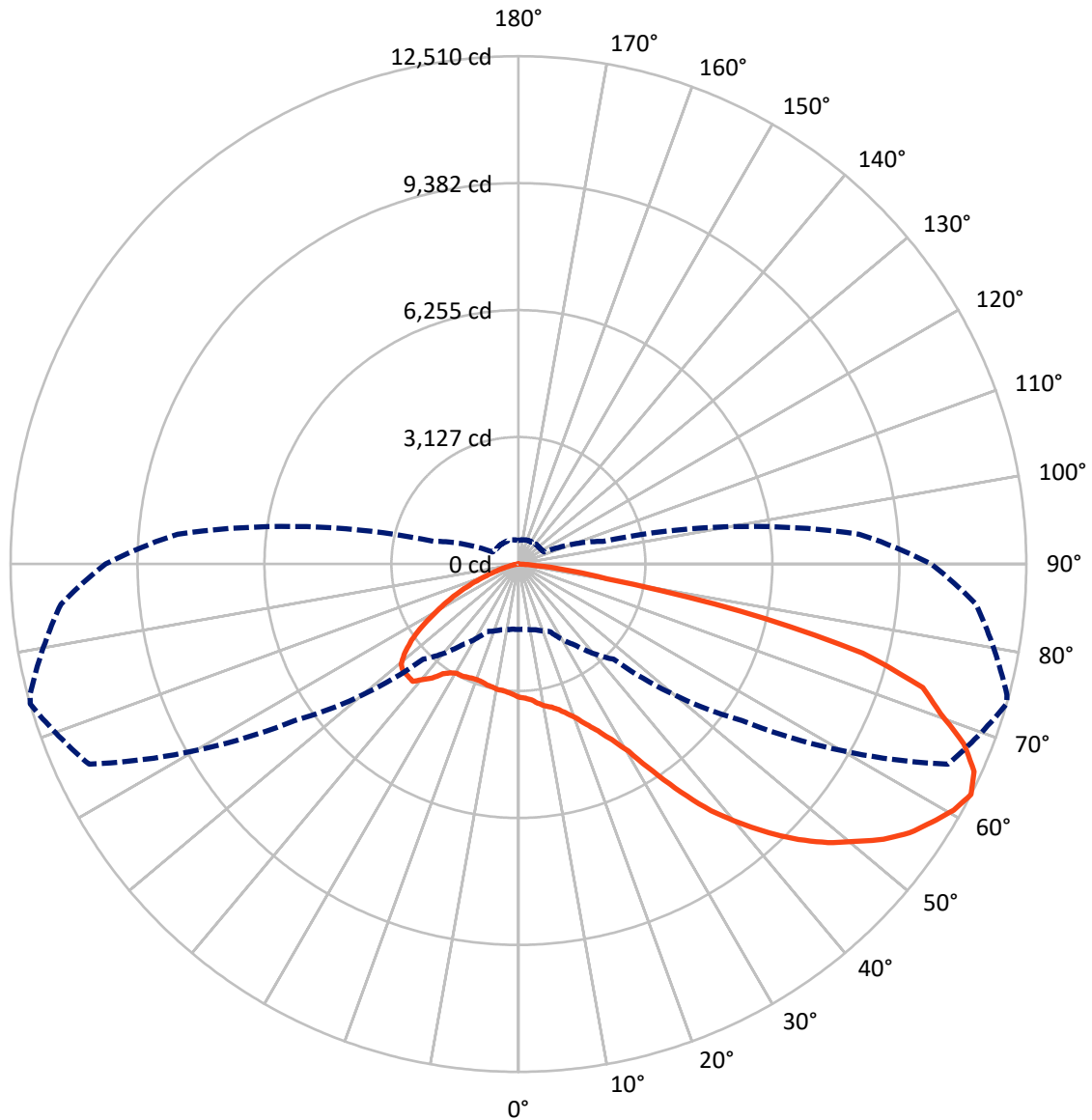
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4599.7	0.0	4599.7
	% Fixture	25.8	0.0	25.8
<b>Street Side</b>	Lumens	13214.3	0.0	13214.3
	% Fixture	74.2	0.0	74.2
<b>Total</b>	Lumens	17814.0	0.0	17814.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.7	1.8
10°-20°	962.3	5.4
20°-30°	1622.7	9.1
30°-40°	2370.9	13.3
40°-50°	3156.8	17.7
50°-60°	3632.9	20.4
60°-70°	3510.6	19.7
70°-80°	2021.0	11.3
80°-90°	221.1	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°	17814.0	100.0
0°-180°	17814.0	100.0

**Coefficient of Utilization**



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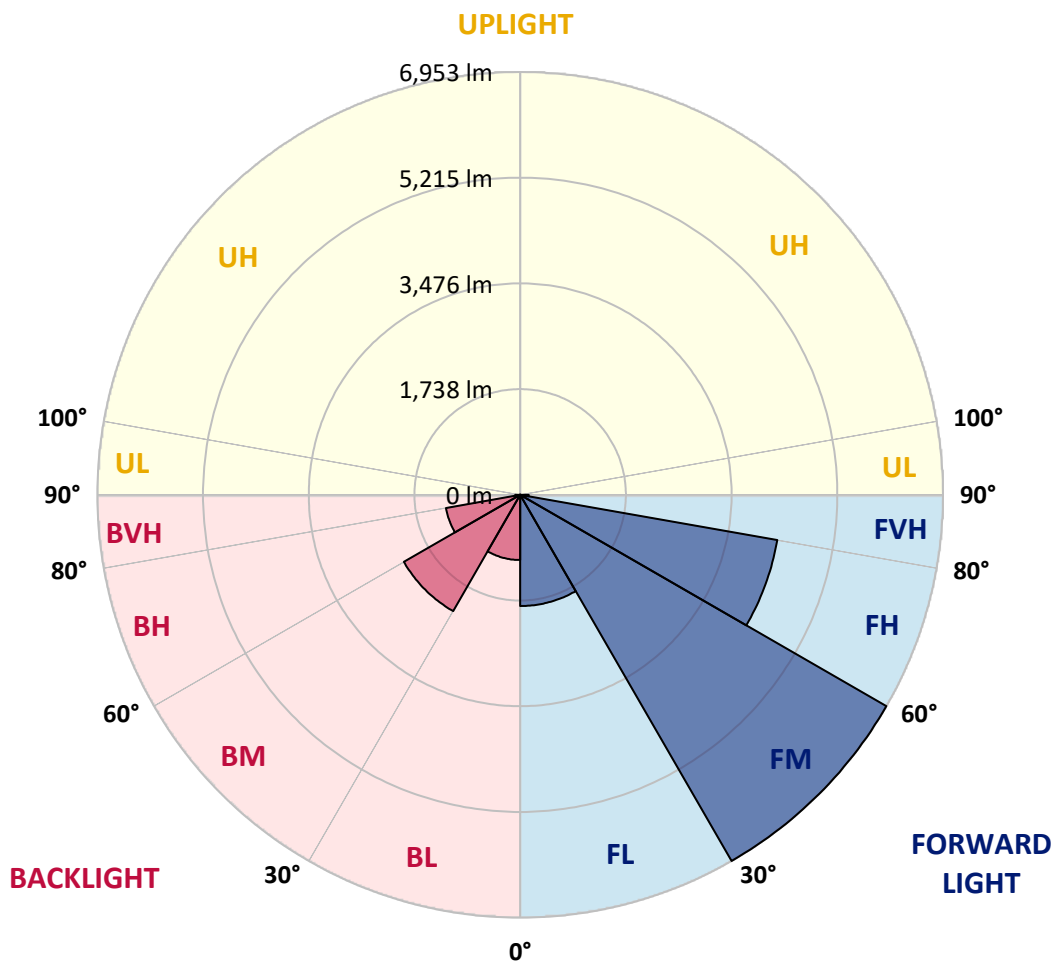
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1828.3	10.3			
FM	(30°-60°)	6952.8	39.0			
FH	(60°-80°)	4293.3	24.1			G2/5000
FVH	(80°-90°)	139.8	0.8			G2/225
BL	(0°-30°)	1072.4	6.0	B3/2500		
BM	(30°-60°)	2207.8	12.4	B2/2500		
BH	(60°-80°)	1238.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	81.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8
2.5°	3516.0	3490.7	3475.2	3457.7	3436.3	3428.6	3381.9	3341.1	3308.1	3310.1	3288.7
5°	3644.2	3617.0	3582.0	3576.2	3549.0	3543.2	3498.5	3434.4	3362.5	3352.8	3288.7
7.5°	3787.9	3772.4	3751.0	3723.8	3679.1	3650.0	3585.9	3535.4	3461.6	3451.9	3325.6
10°	3962.7	3951.1	3935.6	3935.6	3877.3	3815.1	3737.4	3611.2	3552.9	3543.2	3389.7
12.5°	4168.7	4133.7	4083.2	4054.0	3999.7	3960.8	3877.3	3743.2	3617.0	3613.1	3449.9
15°	4302.7	4273.6	4240.5	4228.9	4158.9	4094.8	4005.5	3898.6	3721.9	3708.3	3523.7
17.5°	4452.3	4425.1	4386.2	4364.9	4320.2	4246.4	4166.7	4026.9	3869.5	3855.9	3607.3
20°	4535.8	4506.7	4495.0	4498.9	4483.3	4446.4	4351.3	4225.0	4044.3	4026.9	3721.9
22.5°	4629.0	4609.6	4613.5	4642.6	4671.8	4658.2	4584.4	4444.5	4289.1	4261.9	3906.4
25°	4631.0	4615.4	4667.9	4780.6	4842.7	4873.8	4834.9	4720.3	4555.2	4530.0	4141.5
27.5°	4664.0	4640.7	4697.0	4815.5	5003.9	5068.0	5081.6	5038.9	4897.1	4866.0	4423.1
30°	4578.5	4563.0	4648.5	4854.4	5075.8	5289.5	5367.2	5433.2	5353.6	5355.5	4858.3
32.5°	4430.9	4403.7	4533.9	4786.4	5198.2	5489.6	5695.5	5961.6	6084.0	6072.3	5615.8
35°	4149.2	4164.8	4339.6	4726.2	5202.1	5693.5	6097.6	6573.5	6905.7	6897.9	6400.6
37.5°	3949.2	3941.4	4147.3	4557.2	5200.1	5874.2	6488.0	7280.6	7709.9	7698.2	7074.7
40°	3708.3	3710.2	3916.1	4347.4	5108.8	5986.9	6892.1	7950.8	8387.8	8370.3	7719.6
42.5°	3449.9	3457.7	3650.0	4091.0	4982.6	6072.3	7253.4	8628.7	9052.2	9067.7	8236.3
45°	3218.8	3222.6	3413.0	3817.1	4759.2	6082.0	7577.8	9269.7	9681.5	9644.6	8778.3
47.5°	2878.8	2882.7	3164.4	3556.8	4463.9	6002.4	7845.9	9879.7	10256.5	10178.8	9236.7
50°	2255.3	2263.0	2597.2	3286.8	4104.6	5819.8	8057.6	10452.7	10744.1	10711.1	9706.8
52.5°	2082.4	2076.6	2216.4	2964.3	3782.1	5489.6	8191.6	10967.5	11262.8	11258.9	10095.3
55°	1995.0	1989.1	2035.8	2402.9	3465.5	5000.1	8187.7	11367.7	11692.1	11612.4	10450.8
57.5°	1839.6	1827.9	1948.4	2129.0	3111.9	4390.1	7993.5	11727.0	12002.9	11979.5	10771.3
60°	1728.8	1719.1	1800.7	1967.8	2735.1	3770.4	7494.3	11913.5	12315.6	12325.3	11041.3
62.5°	1614.2	1608.4	1678.3	1833.7	2439.8	3317.8	6725.0	11668.7	12509.9	12457.4	11311.3
65°	1484.1	1480.2	1546.2	1672.5	2146.5	2974.0	5971.3	11231.7	12335.0	12395.2	11346.3
67.5°	1328.7	1326.7	1390.8	1478.3	1826.0	2628.2	4817.5	10716.9	11835.8	11769.8	10897.6
70°	1138.3	1130.5	1210.2	1291.8	1528.8	2235.8	3749.1	9802.0	11023.8	11262.8	10004.0
72.5°	957.7	953.8	1029.5	1089.8	1266.5	1826.0	2735.1	8477.2	10415.8	10072.0	9013.3
75°	749.8	730.4	810.0	866.4	998.5	1453.0	1864.8	5662.5	8766.6	8694.7	7572.0
77.5°	303.0	351.6	419.6	470.1	557.5	823.6	975.1	2686.5	5592.5	5839.2	5266.2
80°	116.6	124.3	299.1	338.0	374.9	474.0	374.9	1132.5	2206.7	2406.8	3049.8
82.5°	66.0	73.8	147.6	141.8	139.9	120.4	139.9	555.6	1151.9	1262.6	1472.4
85°	36.9	40.8	60.2	66.0	56.3	48.6	42.7	145.7	287.5	272.0	305.0
87.5°	5.8	7.8	9.7	9.7	5.8	5.8	5.8	7.8	7.8	7.8	9.7
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°	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8	3284.8
2.5°	3267.3	3246.0	3224.6	3199.3	3168.3	3148.8	3141.1	3150.8	3178.0	3144.9	3117.8
5°	3255.7	3226.5	3178.0	3129.4	3090.6	3057.5	3012.9	3009.0	3016.7	3003.1	2968.2
7.5°	3280.9	3238.2	3139.1	3106.1	3024.5	2946.8	2921.6	2911.8	2888.5	2861.3	2828.3
10°	3331.4	3244.0	3143.0	3045.9	2970.1	2886.6	2789.5	2791.4	2781.7	2750.6	2719.5
12.5°	3356.7	3253.7	3106.1	3003.1	2886.6	2783.6	2688.5	2645.7	2663.2	2637.9	2604.9
15°	3403.3	3294.5	3092.5	2941.0	2781.7	2665.1	2593.3	2531.1	2492.3	2498.1	2478.7
17.5°	3490.7	3331.4	3057.5	2873.0	2700.1	2562.2	2424.3	2418.4	2360.2	2327.1	2298.0
20°	3582.0	3397.5	3053.6	2799.2	2568.0	2397.1	2286.4	2224.2	2189.2	2162.0	2140.7
22.5°	3700.5	3488.8	3067.2	2756.4	2449.5	2257.2	2115.4	2031.9	1975.5	1956.1	1940.6
25°	3867.6	3603.4	3104.2	2680.7	2325.2	2103.8	1911.4	1824.0	1759.9	1744.4	1732.7
27.5°	4096.8	3749.1	3141.1	2599.1	2179.5	1888.1	1684.2	1598.7	1526.8	1524.9	1503.5
30°	4458.1	3972.5	3154.7	2527.2	2024.1	1657.0	1453.0	1373.4	1319.0	1297.6	1313.1
32.5°	5132.1	4465.9	3240.1	2416.5	1827.9	1431.6	1258.8	1194.7	1134.4	1111.1	1126.7
35°	5860.6	5056.4	3383.9	2340.7	1612.3	1218.0	1099.5	1023.7	949.9	938.2	932.4
37.5°	6394.8	5594.5	3655.8	2216.4	1408.3	1087.8	932.4	870.3	827.5	804.2	825.6
40°	7000.9	6041.2	3861.7	2084.3	1200.5	949.9	777.0	757.6	738.2	722.6	745.9
42.5°	7480.7	6501.6	4106.5	1909.5	1033.4	806.1	691.5	707.1	716.8	709.0	711.0
45°	7921.6	6843.5	4122.0	1643.4	881.9	699.3	666.3	697.4	720.7	716.8	714.8
47.5°	8352.9	7251.4	4158.9	1361.7	773.1	672.1	668.2	691.5	722.6	728.4	728.4
50°	8797.7	7562.2	4102.6	1095.6	732.3	676.0	674.1	672.1	711.0	712.9	718.7
52.5°	9131.8	7814.8	3836.5	905.2	730.4	687.7	683.8	664.3	681.8	695.4	685.7
55°	9485.3	8129.5	3500.4	833.3	726.5	691.5	707.1	674.1	662.4	650.7	662.4
57.5°	9821.4	8349.0	3059.5	790.6	711.0	685.7	716.8	672.1	646.9	613.8	602.2
60°	10079.8	8399.5	2568.0	745.9	691.5	672.1	674.1	658.5	625.5	584.7	567.2
62.5°	10167.2	8428.6	2160.1	703.2	652.7	650.7	635.2	629.4	615.8	590.5	582.8
65°	10093.4	8098.4	1725.0	650.7	619.7	621.6	598.3	578.9	547.8	507.0	503.1
67.5°	9586.4	7517.6	1322.9	584.7	569.2	588.6	563.3	530.3	495.3	468.1	472.0
70°	8718.0	6829.9	928.5	493.4	510.9	545.8	536.1	493.4	454.6	431.2	435.1
72.5°	7752.6	5786.8	631.3	384.6	415.7	489.5	489.5	460.4	421.5	390.4	382.7
75°	6115.1	4545.5	407.9	254.5	273.9	400.2	433.2	388.5	345.8	326.3	318.6
77.5°	4151.2	2960.4	260.3	145.7	182.6	262.2	341.9	347.7	409.9	411.8	394.3
80°	2439.8	1693.9	159.3	85.5	91.3	151.5	273.9	343.8	435.1	306.9	281.7
82.5°	1214.1	722.6	71.9	52.4	54.4	75.8	147.6	394.3	336.1	192.3	184.5
85°	270.0	118.5	29.1	27.2	31.1	38.9	75.8	326.3	205.9	155.4	151.5
87.5°	9.7	7.8	7.8	7.8	5.8	5.8	15.5	106.8	81.6	68.0	64.1
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)