

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: P509549

Luminaire Tested: **VERD-G-CA2-120-730-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-120-730-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1120mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17554 lumens  
Efficiency: N/A  
Efficacy: 140.8 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

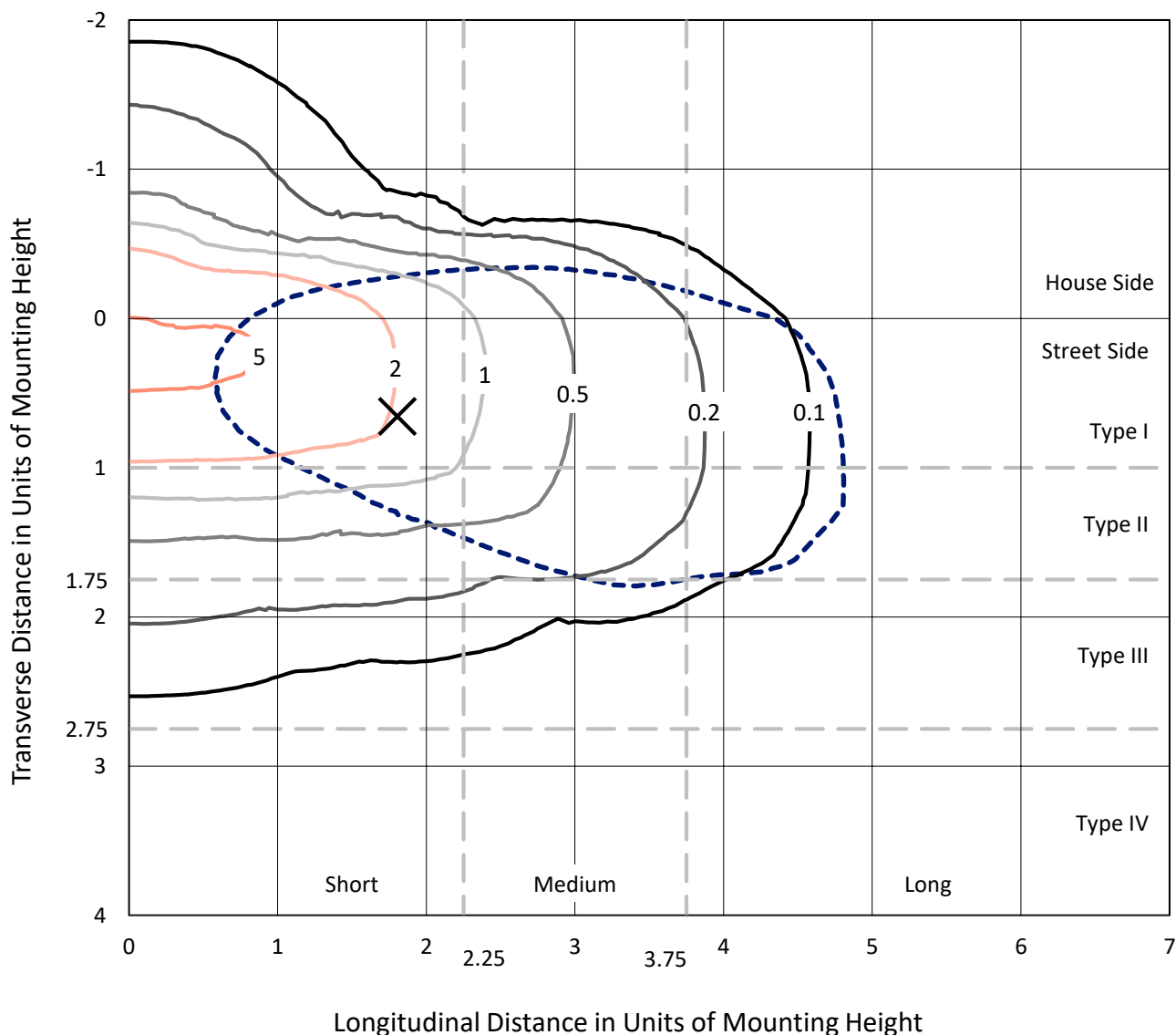
Input Watts (W): 124.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

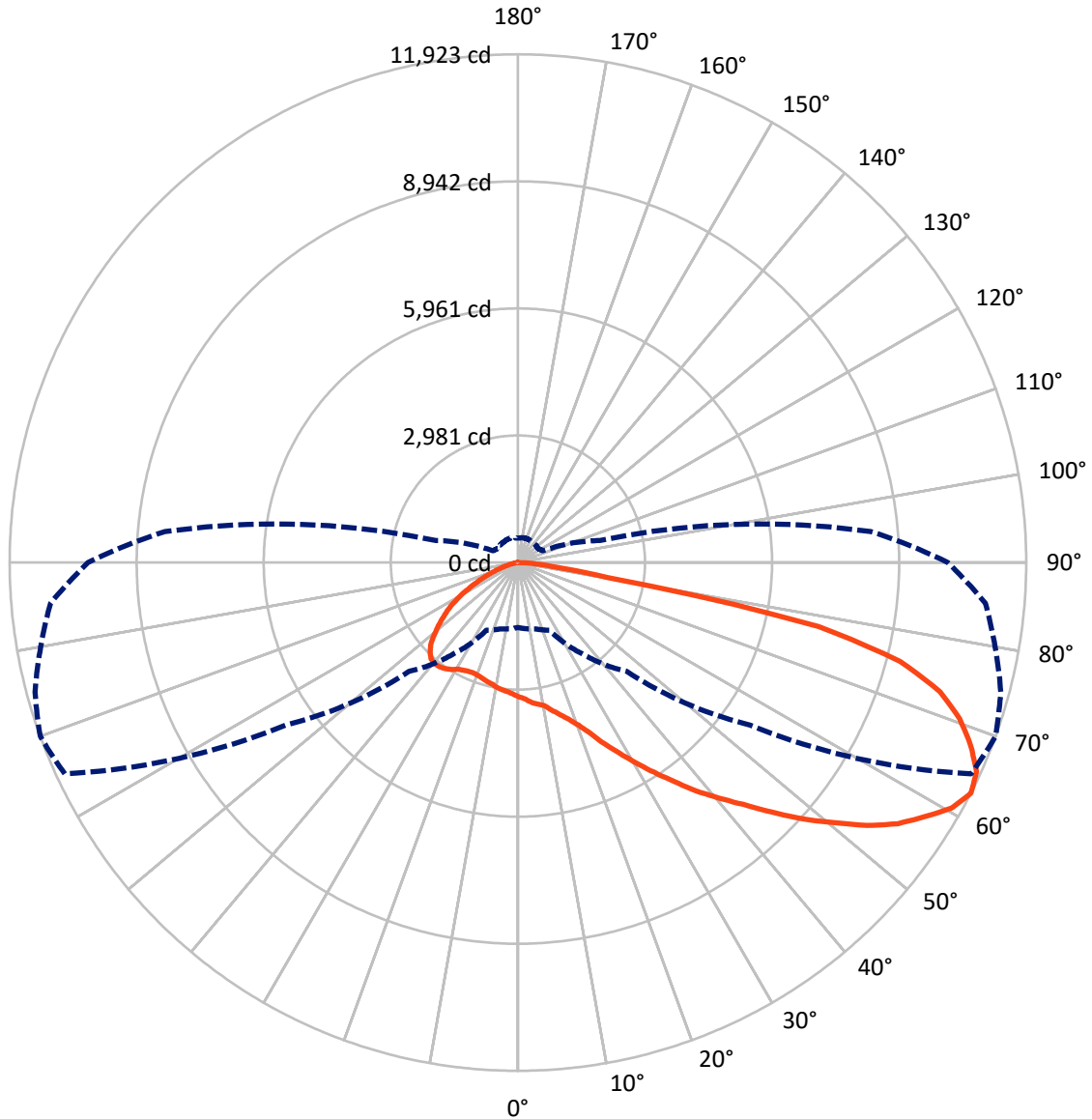
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4485.6	0.0	4485.6
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	13068.4	0.0	13068.4
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	17554.0	0.0	17554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.2	1.7
10°-20°	925.4	5.3
20°-30°	1573.1	9.0
30°-40°	2263.6	12.9
40°-50°	2937.5	16.7
50°-60°	3443.5	19.6
60°-70°	3531.3	20.1
70°-80°	2317.2	13.2
80°-90°	258.1	1.5
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°	17554.0	100.0
0°-180°	17554.0	100.0

**Coefficient of Utilization**



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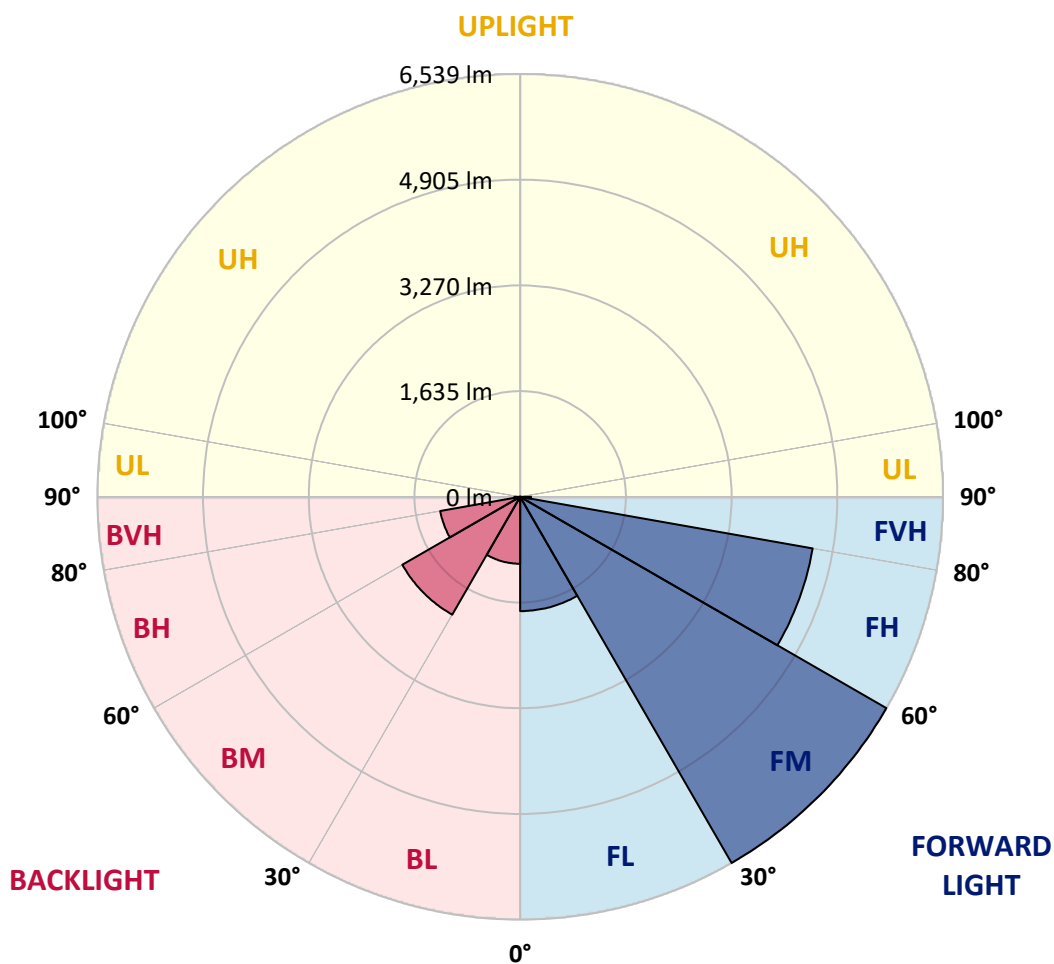
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1766.9	10.1			
FM	(30°-60°)	6539.4	37.3			
FH	(60°-80°)	4593.7	26.2			G2/5000
FVH	(80°-90°)	168.3	1.0			G2/225
BL	(0°-30°)	1035.8	5.9	B3/2500		
BM	(30°-60°)	2105.3	12.0	B2/2500		
BH	(60°-80°)	1254.8	7.1	B3/2500		G3/2500
BVH	(80°-90°)	89.8	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°	70°	75°	85°
0°	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5
2.5°	3353.1	3365.7	3345.0	3325.5	3305.9	3294.4	3274.8	3219.6	3200.0	3182.7	3148.2
5°	3526.9	3544.2	3514.2	3452.1	3437.1	3388.8	3362.3	3315.1	3295.5	3265.6	3208.0
7.5°	3730.6	3732.9	3690.3	3670.8	3621.3	3555.7	3471.6	3385.3	3356.5	3325.5	3252.9
10°	3849.2	3873.4	3831.9	3770.9	3736.4	3677.7	3589.1	3475.1	3411.8	3356.5	3276.0
12.5°	4016.1	4021.9	3955.1	3920.6	3874.5	3800.9	3714.5	3615.5	3553.4	3450.9	3304.7
15°	4138.1	4141.6	4081.7	4044.9	4001.1	3957.4	3864.2	3760.6	3699.6	3597.1	3375.0
17.5°	4225.6	4240.6	4203.7	4177.3	4131.2	4100.1	4026.5	3944.7	3865.3	3773.2	3521.1
20°	4321.1	4329.2	4261.3	4272.8	4264.7	4250.9	4216.4	4139.3	4074.8	3952.8	3638.6
22.5°	4347.6	4333.8	4352.2	4397.1	4419.0	4435.1	4424.7	4407.5	4348.8	4196.8	3860.7
25°	4308.5	4325.7	4369.5	4467.3	4589.3	4661.9	4713.7	4726.3	4709.1	4564.0	4157.7
27.5°	4298.1	4290.1	4361.4	4528.3	4733.2	4902.4	5004.9	5101.6	5057.8	4966.9	4492.6
30°	4254.4	4250.9	4376.4	4547.9	4811.5	5125.7	5308.8	5472.2	5451.5	5359.4	4885.2
32.5°	4147.3	4170.3	4267.0	4564.0	4931.2	5342.1	5565.5	5833.7	5864.7	5796.8	5282.3
35°	4009.2	4017.3	4171.5	4521.4	5024.4	5532.1	5856.7	6229.6	6302.1	6299.8	5728.9
37.5°	3834.2	3880.3	4044.9	4415.5	5064.7	5705.9	6136.4	6650.9	6796.0	6774.1	6175.5
40°	3659.3	3688.0	3882.6	4280.9	5068.2	5822.1	6373.5	7101.0	7262.1	7265.6	6684.3
42.5°	3396.8	3445.2	3648.9	4103.6	4991.1	5921.1	6609.5	7572.9	7755.9	7782.4	7156.2
45°	3178.1	3194.2	3375.0	3828.5	4824.2	5974.1	6871.9	8056.4	8352.2	8330.3	7566.0
47.5°	2895.0	2958.3	3149.3	3568.3	4562.9	5983.3	7099.8	8618.1	8984.1	8933.5	8124.3
50°	2240.0	2310.2	2830.5	3333.5	4232.5	5878.5	7282.9	9285.7	9583.9	9529.8	8599.7
52.5°	1975.2	2009.8	2220.4	3059.6	3889.5	5628.8	7429.0	9918.8	10244.6	10077.7	9155.7
55°	1862.4	1878.6	1974.1	2502.4	3586.8	5219.0	7513.1	10629.0	10812.1	10564.6	9673.6
57.5°	1740.4	1778.4	1826.8	2108.8	3249.5	4651.5	7461.3	11218.4	11248.3	11002.0	10115.7
60°	1625.3	1641.4	1741.6	1890.1	2861.6	4065.6	7168.9	11585.6	11691.5	11388.7	10647.5
62.5°	1522.9	1551.7	1610.4	1749.6	2602.6	3609.8	6648.6	11727.2	11922.8	11726.0	11006.6
65°	1426.2	1435.4	1502.2	1628.8	2316.0	3385.3	6348.2	11503.9	11821.5	11790.5	11164.3
67.5°	1312.2	1322.6	1381.3	1468.8	1958.0	3135.5	5565.5	11188.5	11455.5	11561.4	11074.5
70°	1163.7	1171.8	1240.9	1292.7	1641.4	2767.2	4673.4	10705.0	10993.9	10896.1	10471.3
72.5°	993.4	1006.0	1061.3	1125.8	1365.2	2333.2	3660.4	9693.2	10355.1	10290.6	9575.8
75°	802.3	821.9	866.8	943.9	1109.6	1853.2	2591.1	7843.4	9257.0	9353.6	8263.6
77.5°	379.9	399.4	439.7	504.2	672.2	1292.7	1418.1	4421.3	7209.2	7807.7	6653.2
80°	124.3	126.6	298.1	340.7	427.0	796.5	579.0	1442.3	2135.2	3610.9	3578.7
82.5°	66.8	72.5	161.2	198.0	214.1	214.1	169.2	636.5	899.0	1099.3	1273.1
85°	35.7	36.8	56.4	67.9	73.7	58.7	43.7	262.4	421.3	526.0	521.4
87.5°	15.0	16.1	17.3	15.0	12.7	8.1	5.8	4.6	4.6	4.6	4.6
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°	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5	3150.5
2.5°	3130.9	3114.8	3106.8	3073.4	3036.5	2997.4	2966.3	2967.5	2991.6	3010.1	3008.9
5°	3166.6	3126.3	3076.8	2998.6	2966.3	2937.5	2903.0	2857.0	2871.9	2890.4	2904.2
7.5°	3186.2	3134.4	3067.6	2951.4	2898.4	2836.3	2804.0	2744.2	2718.8	2737.3	2737.3
10°	3179.3	3126.3	3011.2	2926.0	2822.4	2724.6	2660.1	2645.2	2623.3	2619.8	2618.7
12.5°	3225.3	3147.0	2976.7	2851.2	2756.8	2631.4	2562.3	2548.5	2553.1	2524.3	2528.9
15°	3270.2	3181.6	2946.8	2816.7	2670.5	2523.2	2467.9	2417.3	2440.3	2416.1	2421.9
17.5°	3350.8	3243.7	2930.6	2747.6	2560.0	2432.2	2333.2	2275.7	2273.4	2269.9	2260.7
20°	3442.9	3294.4	2928.3	2687.8	2470.2	2318.3	2176.7	2113.4	2067.3	2083.4	2084.6
22.5°	3609.8	3389.9	2952.5	2632.5	2344.7	2174.4	2029.3	1932.7	1877.4	1886.6	1887.8
25°	3846.9	3590.2	3015.8	2585.3	2240.0	2007.5	1864.7	1742.7	1676.0	1677.1	1695.5
27.5°	4191.1	3829.6	3117.1	2545.0	2128.3	1849.8	1656.4	1536.7	1464.2	1463.0	1475.7
30°	4531.8	4128.9	3262.1	2487.5	1986.8	1638.0	1419.3	1323.7	1278.8	1248.9	1255.8
32.5°	4869.1	4450.1	3450.9	2457.5	1821.0	1388.2	1205.2	1139.6	1083.2	1027.9	1033.7
35°	5251.2	4751.6	3640.9	2397.7	1621.9	1181.0	1053.2	963.5	890.9	862.2	856.4
37.5°	5700.1	5102.7	3772.1	2347.0	1385.9	1041.7	886.3	819.6	772.4	741.3	736.7
40°	6096.1	5397.4	3917.1	2228.5	1159.1	916.3	740.1	704.5	698.7	674.5	671.1
42.5°	6496.7	5758.8	4016.1	2073.1	1003.7	756.3	633.1	653.8	686.0	671.1	671.1
45°	6905.3	6136.4	4035.7	1840.6	855.2	640.0	606.6	645.8	690.6	694.1	692.9
47.5°	7353.1	6471.3	4073.7	1507.9	749.4	610.1	602.0	634.2	691.8	712.5	707.9
50°	7860.7	6833.9	3967.8	1149.9	686.0	613.5	606.6	621.6	683.7	706.8	698.7
52.5°	8354.5	7182.7	3792.8	877.1	645.8	617.0	630.8	619.3	664.2	687.2	696.4
55°	8812.6	7567.2	3422.1	780.4	618.1	612.4	650.4	629.6	645.8	652.7	665.3
57.5°	9276.5	7850.3	3028.5	732.1	603.2	606.6	638.8	629.6	640.0	631.9	621.6
60°	9711.6	8148.5	2520.9	687.2	587.0	603.2	615.8	613.5	620.4	605.5	598.6
62.5°	10081.1	8309.6	1990.2	648.1	573.2	587.0	584.7	596.3	597.4	580.1	575.5
65°	10250.3	8378.7	1519.4	612.4	552.5	566.3	554.8	557.1	558.3	535.3	534.1
67.5°	10078.8	7998.8	1041.7	559.4	530.6	547.9	526.0	522.6	514.5	491.5	492.7
70°	9578.1	7364.6	695.2	483.5	483.5	513.4	500.7	492.7	473.1	451.2	458.1
72.5°	8459.3	6287.2	451.2	390.2	424.7	473.1	467.3	455.8	409.8	347.6	349.9
75°	7235.7	4989.9	300.4	284.3	324.6	409.8	389.1	361.4	343.0	362.6	386.8
77.5°	5634.5	3181.6	168.1	163.5	192.2	287.8	324.6	330.4	467.3	554.8	549.1
80°	2924.9	1616.1	97.8	80.6	114.0	193.4	255.5	347.6	580.1	437.4	423.6
82.5°	1149.9	605.5	59.9	42.6	50.6	79.4	169.2	499.6	439.7	221.0	211.8
85°	393.7	137.0	24.2	21.9	24.2	33.4	66.8	447.8	227.9	140.4	133.5
87.5°	4.6	4.6	5.8	6.9	8.1	8.1	18.4	212.9	105.9	65.6	63.3
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)