

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: P553569

Luminaire Tested: **VERD-G-CA2-150-740-U-T2**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-150-740-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1380mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21827 lumens  
Efficiency: N/A  
Efficacy: 143.4 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

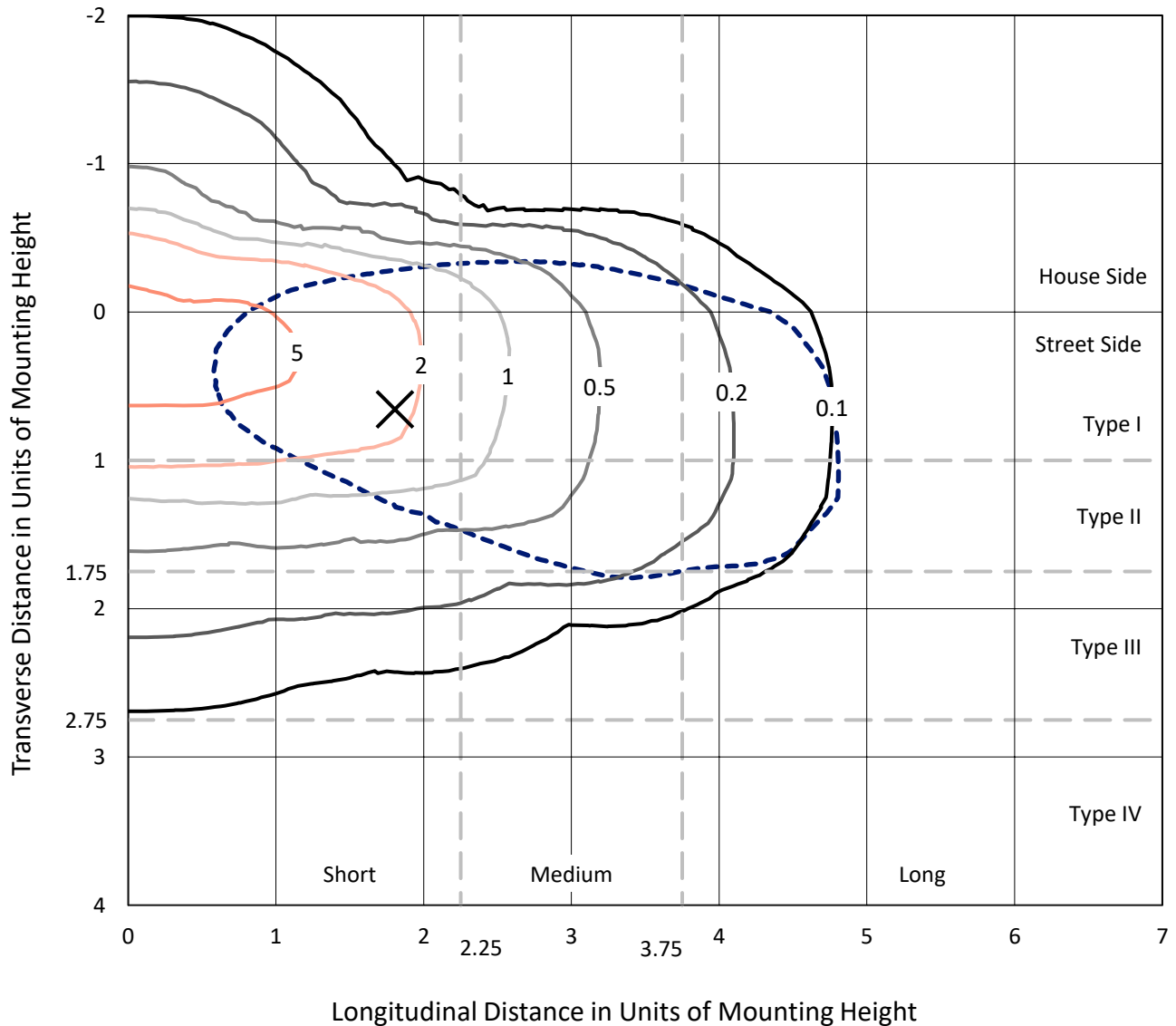
Input Watts (W): 152.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

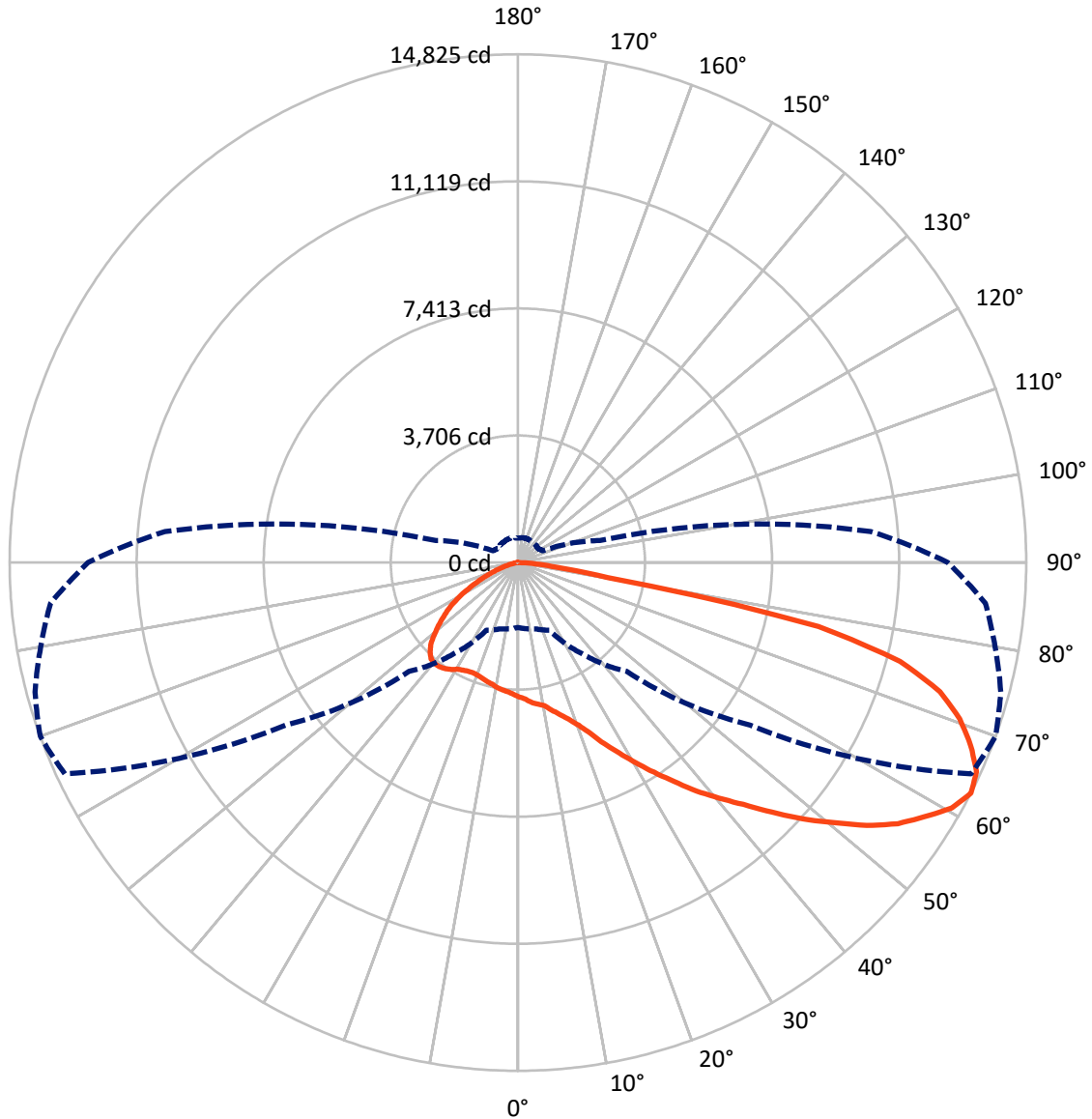
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	5577.6	0.0	5577.6
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	16249.4	0.0	16249.4
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	21827.0	0.0	21827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.3	1.7
10°-20°	1150.7	5.3
20°-30°	1956.0	9.0
30°-40°	2814.6	12.9
40°-50°	3652.5	16.7
50°-60°	4281.7	19.6
60°-70°	4390.9	20.1
70°-80°	2881.3	13.2
80°-90°	321.0	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°	21827.0	100.0
0°-180°	21827.0	100.0

**Coefficient of Utilization**



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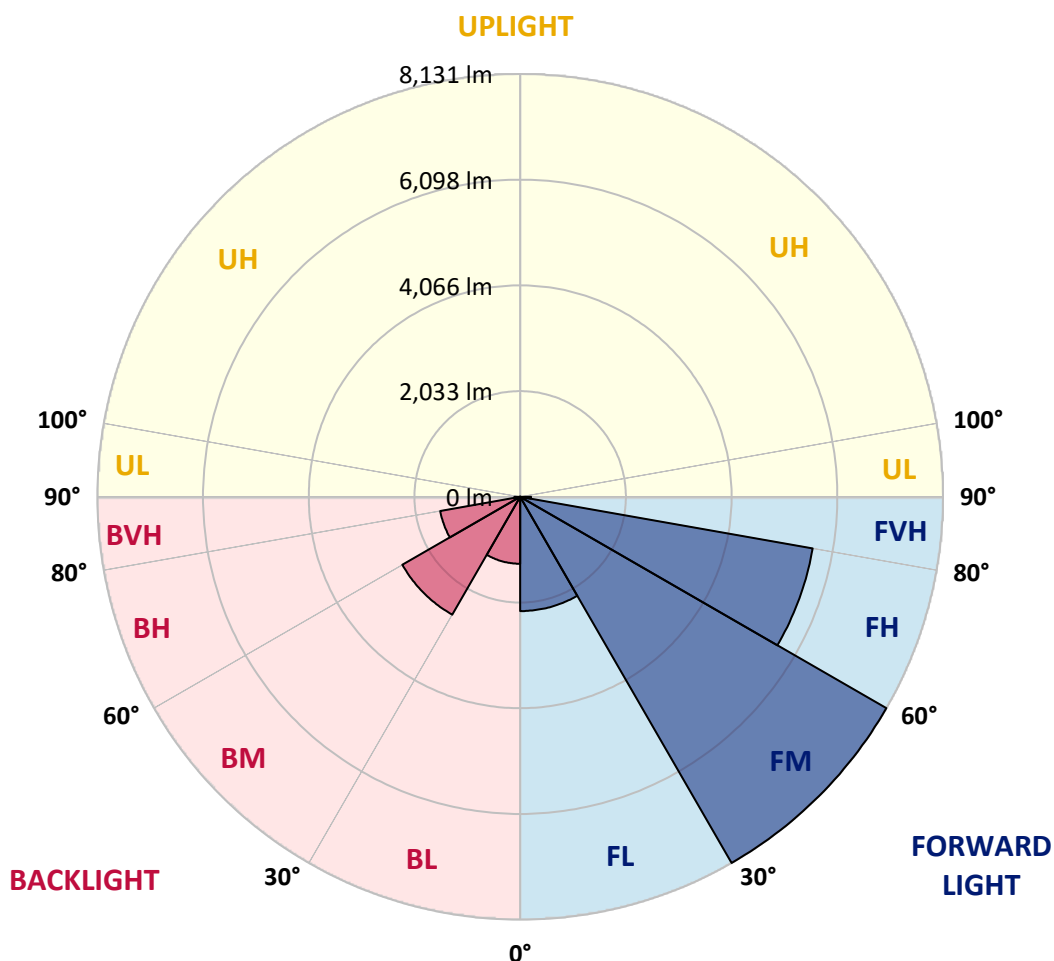
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.0	10.1			
FM (30°-60°)	8131.2	37.3			
FH (60°-80°)	5711.9	26.2			G3/7500
FVH (80°-90°)	209.3	1.0			G2/225
BL (0°-30°)	1287.9	5.9	B3/2500		
BM (30°-60°)	2617.7	12.0	B3/5000		
BH (60°-80°)	1560.2	7.1	B3/2500		G3/2500
BVH (80°-90°)	111.7	0.5			G2/225
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°	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4
2.5°	4169.3	4185.0	4159.3	4134.9	4110.6	4096.3	4072.0	4003.3	3978.9	3957.5	3914.5
5°	4385.4	4406.9	4369.7	4292.4	4273.8	4213.7	4180.7	4122.1	4097.7	4060.5	3989.0
7.5°	4638.7	4641.6	4588.7	4564.3	4502.8	4421.2	4316.7	4209.4	4173.6	4134.9	4044.8
10°	4786.2	4816.2	4764.7	4688.8	4645.9	4572.9	4462.7	4321.0	4242.3	4173.6	4073.4
12.5°	4993.7	5000.9	4917.8	4874.9	4817.7	4726.1	4618.7	4495.6	4418.3	4291.0	4109.2
15°	5145.4	5149.7	5075.3	5029.5	4975.1	4920.7	4804.8	4676.0	4600.1	4472.7	4196.5
17.5°	5254.2	5272.8	5227.0	5194.1	5136.8	5098.2	5006.6	4905.0	4806.2	4691.7	4378.3
20°	5373.0	5383.0	5298.6	5312.9	5302.9	5285.7	5242.7	5146.9	5066.7	4915.0	4524.2
22.5°	5405.9	5388.7	5411.6	5467.5	5494.7	5514.7	5501.8	5480.3	5407.3	5218.4	4800.5
25°	5357.2	5378.7	5433.1	5554.8	5706.5	5796.6	5861.1	5876.8	5855.3	5675.0	5169.8
27.5°	5344.4	5334.3	5423.1	5630.6	5885.4	6095.8	6223.2	6343.4	6289.0	6175.9	5586.3
30°	5290.0	5285.7	5441.7	5655.0	5982.7	6373.5	6601.0	6804.3	6778.5	6664.0	6074.3
32.5°	5156.9	5185.5	5305.7	5675.0	6131.6	6642.5	6920.2	7253.7	7292.3	7207.9	6568.1
35°	4985.1	4995.1	5186.9	5622.0	6247.5	6878.7	7282.3	7746.0	7836.2	7833.3	7123.4
37.5°	4767.6	4824.8	5029.5	5490.4	6297.6	7094.8	7630.1	8269.9	8450.2	8423.0	7678.8
40°	4550.0	4585.8	4827.7	5322.9	6301.9	7239.4	7924.9	8829.5	9029.9	9034.2	8311.4
42.5°	4223.7	4283.8	4537.1	5102.5	6206.0	7362.5	8218.4	9416.3	9643.9	9676.8	8898.2
45°	3951.7	3971.8	4196.5	4760.4	5998.5	7428.3	8544.7	10017.5	10385.3	10358.1	9407.7
47.5°	3599.6	3678.4	3916.0	4436.9	5673.6	7439.7	8828.1	10715.9	11171.1	11108.1	10101.9
50°	2785.3	2872.6	3519.5	4145.0	5262.8	7309.5	9055.7	11546.1	11916.8	11849.5	10693.0
52.5°	2456.1	2499.0	2760.9	3804.3	4836.3	6998.9	9237.4	12333.3	12738.3	12530.8	11384.3
55°	2315.8	2335.8	2454.6	3111.6	4459.8	6489.4	9341.9	13216.4	13443.9	13136.2	12028.4
57.5°	2164.1	2211.3	2271.4	2622.1	4040.5	5783.8	9277.5	13949.2	13986.4	13680.1	12578.0
60°	2021.0	2041.0	2165.5	2350.1	3558.1	5055.2	8914.0	14405.7	14537.4	14161.0	13239.3
62.5°	1893.6	1929.4	2002.3	2175.5	3236.1	4488.5	8267.0	14581.8	14825.1	14580.4	13685.8
65°	1773.3	1784.8	1867.8	2025.2	2879.7	4209.4	7893.5	14304.1	14699.2	14660.5	13881.9
67.5°	1631.6	1644.5	1717.5	1826.3	2434.6	3898.8	6920.2	13912.0	14244.0	14375.7	13770.3
70°	1447.0	1457.0	1542.9	1607.3	2041.0	3440.8	5811.0	13310.8	13670.1	13548.4	13020.3
72.5°	1235.2	1250.9	1319.6	1399.8	1697.5	2901.2	4551.4	12052.7	12875.7	12795.6	11906.7
75°	997.6	1021.9	1077.7	1173.6	1379.7	2304.3	3221.8	9752.7	11510.3	11630.5	10275.1
77.5°	472.3	496.7	546.7	626.9	835.9	1607.3	1763.3	5497.5	8964.1	9708.3	8272.7
80°	154.6	157.4	370.7	423.7	531.0	990.4	719.9	1793.4	2655.0	4489.9	4449.8
82.5°	83.0	90.2	200.4	246.2	266.2	266.2	210.4	791.5	1117.8	1366.9	1583.0
85°	44.4	45.8	70.1	84.4	91.6	73.0	54.4	326.3	523.8	654.1	648.4
87.5°	18.6	20.0	21.5	18.6	15.7	10.0	7.2	5.7	5.7	5.7	5.7
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°	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4	3917.4
2.5°	3893.1	3873.0	3863.0	3821.5	3775.7	3727.0	3688.4	3689.8	3719.9	3742.8	3741.3
5°	3937.4	3887.3	3825.8	3728.5	3688.4	3652.6	3609.7	3552.4	3571.0	3593.9	3611.1
7.5°	3961.8	3897.4	3814.3	3669.8	3603.9	3526.7	3486.6	3412.2	3380.7	3403.6	3403.6
10°	3953.2	3887.3	3744.2	3638.3	3509.5	3387.8	3307.7	3289.1	3261.9	3257.6	3256.1
12.5°	4010.4	3913.1	3701.3	3545.3	3427.9	3271.9	3186.0	3168.8	3174.6	3138.8	3144.5
15°	4066.2	3956.0	3664.1	3502.3	3320.5	3137.3	3068.6	3005.7	3034.3	3004.2	3011.4
17.5°	4166.4	4033.3	3644.0	3416.4	3183.1	3024.3	2901.2	2829.6	2826.8	2822.5	2811.0
20°	4280.9	4096.3	3641.2	3342.0	3071.5	2882.6	2706.5	2627.8	2570.6	2590.6	2592.0
22.5°	4488.5	4215.1	3671.2	3273.3	2915.5	2703.7	2523.3	2403.1	2334.4	2345.9	2347.3
25°	4783.3	4464.1	3749.9	3214.6	2785.3	2496.1	2318.7	2166.9	2083.9	2085.4	2108.3
27.5°	5211.3	4761.8	3875.9	3164.5	2646.4	2300.1	2059.6	1910.7	1820.6	1819.1	1834.9
30°	5634.9	5134.0	4056.2	3093.0	2470.4	2036.7	1764.8	1646.0	1590.1	1552.9	1561.5
32.5°	6054.3	5533.3	4291.0	3055.8	2264.3	1726.1	1498.5	1417.0	1346.8	1278.1	1285.3
35°	6529.5	5908.3	4527.1	2981.3	2016.7	1468.5	1309.6	1198.0	1107.8	1072.0	1064.9
37.5°	7087.7	6344.8	4690.3	2918.4	1723.3	1295.3	1102.1	1019.1	960.4	921.7	916.0
40°	7580.0	6711.2	4870.6	2770.9	1441.3	1139.3	920.3	875.9	868.8	838.7	834.4
42.5°	8078.1	7160.6	4993.7	2577.7	1248.1	940.3	787.2	813.0	853.0	834.4	834.4
45°	8586.2	7630.1	5018.0	2288.6	1063.4	795.8	754.3	802.9	858.8	863.1	861.6
47.5°	9143.0	8046.6	5065.3	1875.0	931.8	758.6	748.6	788.6	860.2	886.0	880.2
50°	9774.2	8497.5	4933.6	1429.8	853.0	762.9	754.3	772.9	850.2	878.8	868.8
52.5°	10388.2	8931.1	4716.0	1090.6	802.9	767.2	784.3	770.0	825.8	854.5	865.9
55°	10957.8	9409.2	4255.2	970.4	768.6	761.4	808.7	782.9	802.9	811.5	827.3
57.5°	11534.6	9761.3	3765.7	910.3	750.0	754.3	794.4	782.9	795.8	785.8	772.9
60°	12075.6	10132.0	3134.5	854.5	729.9	750.0	765.7	762.9	771.5	752.8	744.3
62.5°	12535.1	10332.3	2474.7	805.8	712.8	729.9	727.1	741.4	742.8	721.4	715.6
65°	12745.5	10418.2	1889.3	761.4	687.0	704.2	689.9	692.7	694.2	665.5	664.1
67.5°	12532.2	9945.9	1295.3	695.6	659.8	681.3	654.1	649.8	639.8	611.2	612.6
70°	11909.6	9157.3	864.5	601.1	601.1	638.3	622.6	612.6	588.3	561.1	569.6
72.5°	10518.4	7817.6	561.1	485.2	528.1	588.3	581.1	566.8	509.5	432.2	435.1
75°	8997.0	6204.6	373.6	353.5	403.6	509.5	483.8	449.4	426.5	450.9	480.9
77.5°	7006.1	3956.0	209.0	203.2	239.0	357.8	403.6	410.8	581.1	689.9	682.7
80°	3636.9	2009.5	121.7	100.2	141.7	240.5	317.7	432.2	721.4	543.9	526.7
82.5°	1429.8	752.8	74.4	53.0	63.0	98.8	210.4	621.2	546.7	274.8	263.4
85°	489.5	170.3	30.1	27.2	30.1	41.5	83.0	556.8	283.4	174.6	166.0
87.5°	5.7	5.7	7.2	8.6	10.0	10.0	22.9	264.8	131.7	81.6	78.7
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)