

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: P553609

Luminaire Tested: **VERD-G-CA2-160-730-U-T2**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553609  
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-CA2-160-730-U-T2  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1460mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22533 lumens  
Efficiency: N/A  
Efficacy: 138.6 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

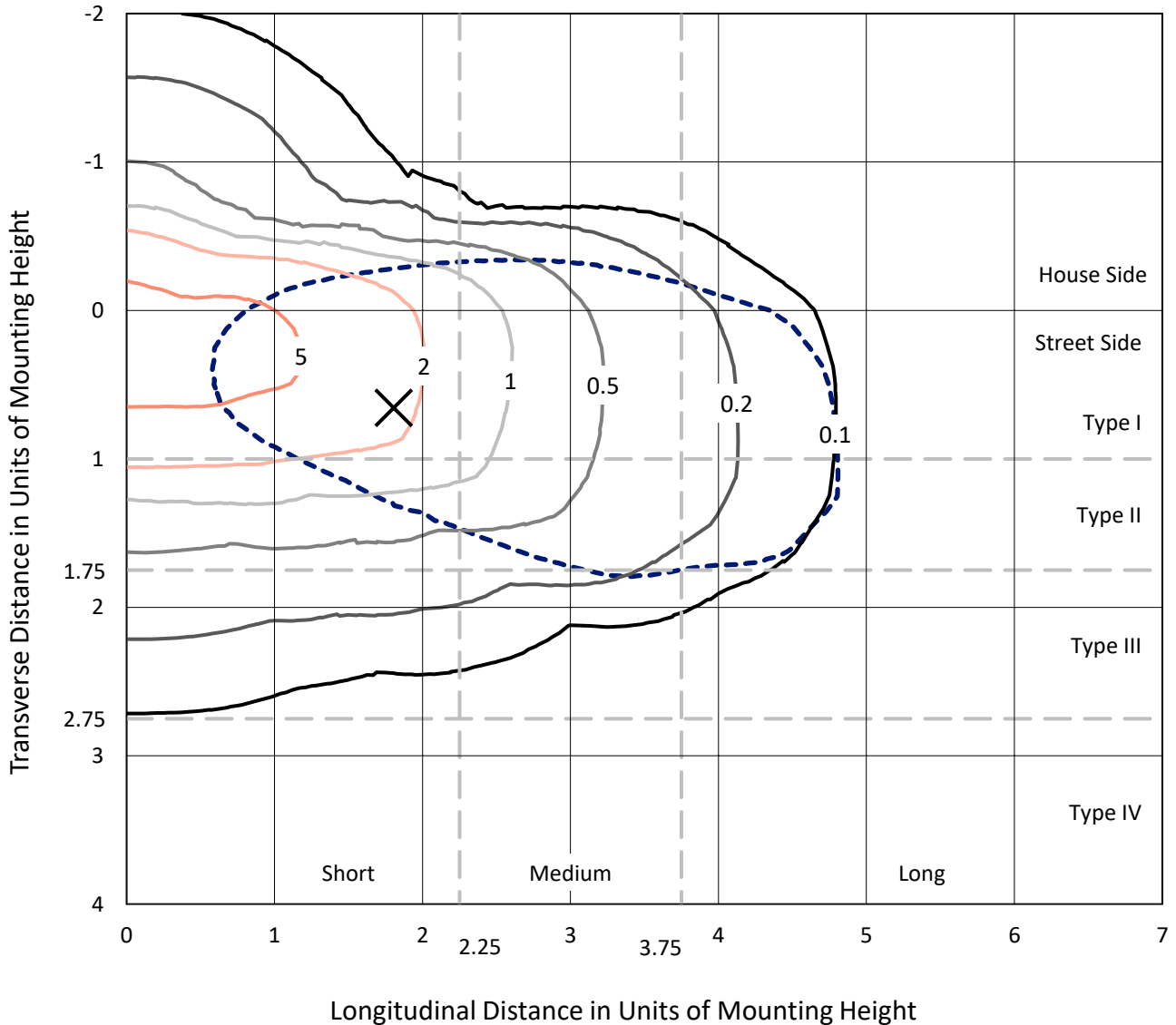
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

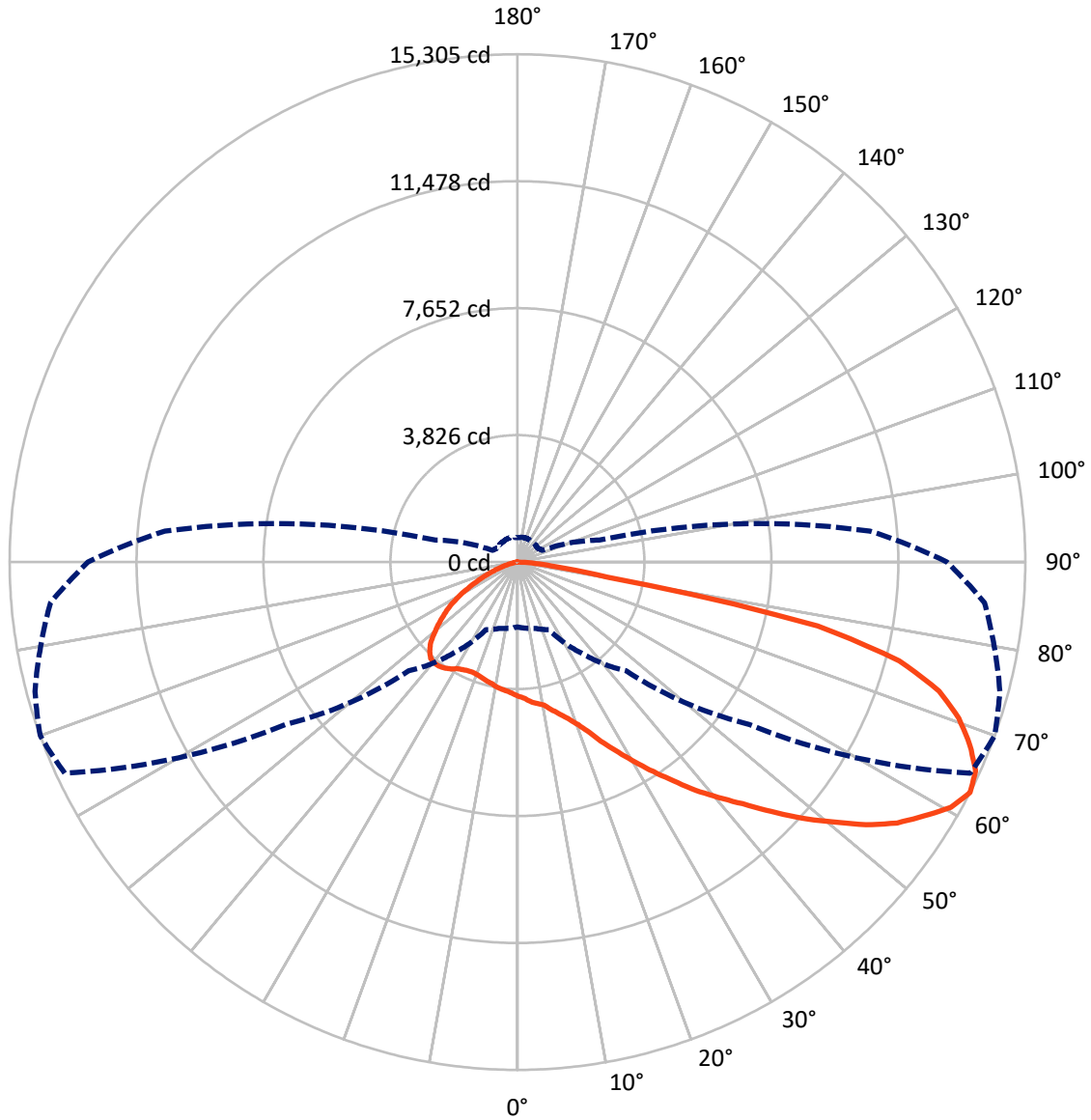
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	5758.0	0.0	5758.0
	% Fixture	25.6	0.0	25.6
<b>Street Side</b>	Lumens	16775.0	0.0	16775.0
	% Fixture	74.4	0.0	74.4
<b>Total</b>	Lumens	22533.0	0.0	22533.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.5	1.7
10°-20°	1187.9	5.3
20°-30°	2019.2	9.0
30°-40°	2905.7	12.9
40°-50°	3770.7	16.7
50°-60°	4420.2	19.6
60°-70°	4532.9	20.1
70°-80°	2974.5	13.2
80°-90°	331.4	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°	22533.0	100.0
0°-180°	22533.0	100.0

**Coefficient of Utilization**



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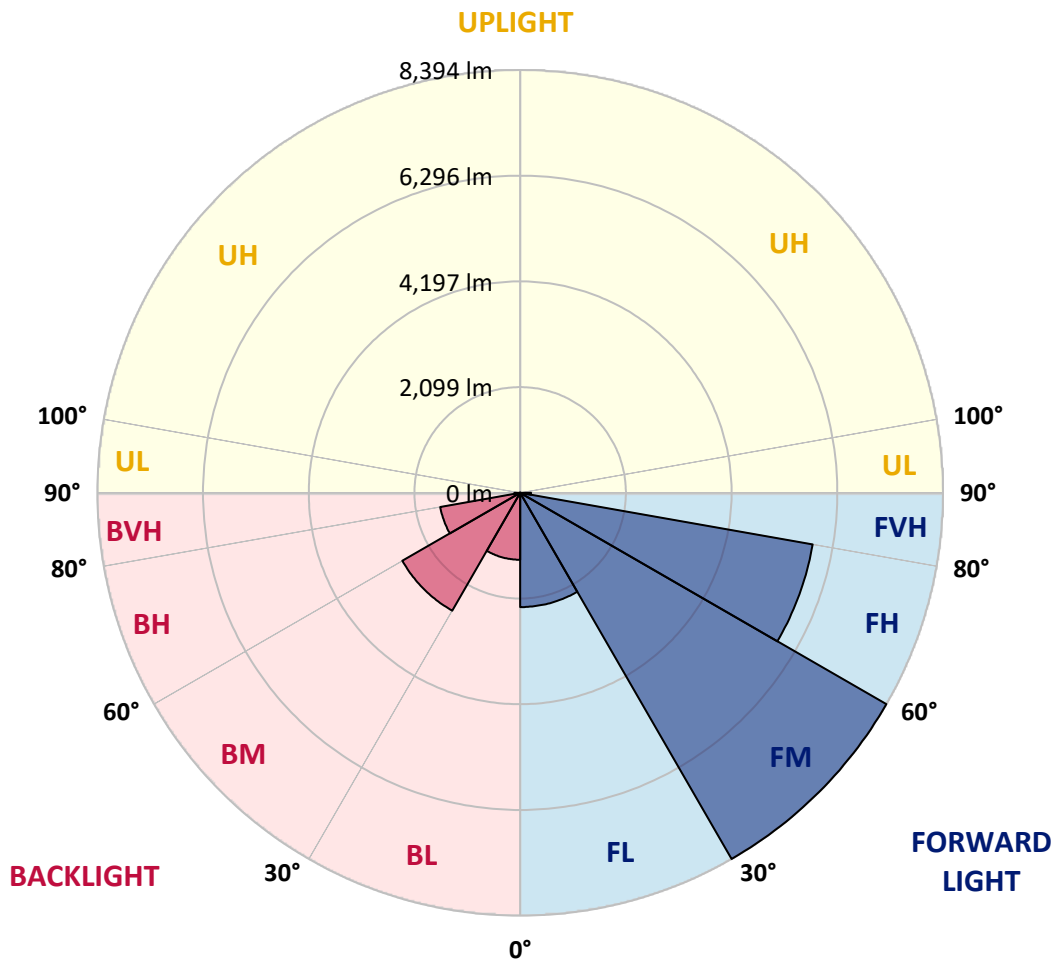
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2268.1	10.1			
FM (30°-60°)	8394.2	37.3			
FH (60°-80°)	5896.7	26.2			G3/7500
FVH (80°-90°)	216.1	1.0			G2/225
BL (0°-30°)	1329.6	5.9	B3/2500		
BM (30°-60°)	2702.4	12.0	B3/5000		
BH (60°-80°)	1610.7	7.1	B3/2500		G3/2500
BVH (80°-90°)	115.3	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°	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1
2.5°	4304.1	4320.4	4293.8	4268.7	4243.6	4228.8	4203.7	4132.8	4107.6	4085.5	4041.1
5°	4527.3	4549.4	4511.0	4431.2	4412.0	4350.0	4316.0	4255.4	4230.3	4191.9	4118.0
7.5°	4788.8	4791.7	4737.1	4712.0	4648.4	4564.2	4456.3	4345.5	4308.6	4268.7	4175.6
10°	4941.0	4972.0	4918.8	4840.5	4796.2	4720.8	4607.1	4460.8	4379.5	4308.6	4205.2
12.5°	5155.2	5162.6	5076.9	5032.6	4973.5	4878.9	4768.1	4641.0	4561.2	4429.7	4242.1
15°	5311.8	5316.3	5239.4	5192.2	5136.0	5079.9	4960.2	4827.2	4748.9	4617.4	4332.2
17.5°	5424.1	5443.4	5396.1	5362.1	5303.0	5263.1	5168.5	5063.6	4961.7	4843.5	4519.9
20°	5546.8	5557.1	5469.9	5484.7	5474.4	5456.7	5412.3	5313.3	5230.6	5074.0	4670.6
22.5°	5580.8	5563.0	5586.7	5644.3	5672.4	5693.1	5679.8	5657.6	5582.2	5387.2	4955.8
25°	5530.5	5552.7	5608.8	5734.4	5891.1	5984.1	6050.6	6066.9	6044.7	5858.5	5337.0
27.5°	5517.2	5506.9	5598.5	5812.7	6075.8	6293.0	6424.5	6548.6	6492.4	6375.7	5766.9
30°	5461.1	5456.7	5617.7	5837.9	6176.2	6579.6	6814.5	7024.3	6997.8	6879.5	6270.8
32.5°	5323.7	5353.2	5477.3	5858.5	6329.9	6857.4	7144.0	7488.3	7528.2	7441.0	6780.6
35°	5146.4	5156.7	5354.7	5803.9	6449.6	7101.2	7517.9	7996.6	8089.7	8086.7	7353.8
37.5°	4921.8	4980.9	5192.2	5667.9	6501.3	7324.3	7876.9	8537.4	8723.5	8695.5	7927.1
40°	4697.2	4734.1	4983.8	5495.1	6505.7	7473.5	8181.3	9115.1	9322.0	9326.4	8580.2
42.5°	4360.3	4422.4	4683.9	5267.5	6406.7	7600.6	8484.2	9720.9	9955.8	9989.8	9186.0
45°	4079.6	4100.2	4332.2	4914.4	6192.5	7668.6	8821.1	10341.5	10721.2	10693.1	9712.0
47.5°	3716.1	3797.3	4042.6	4580.5	5857.1	7680.4	9113.6	11062.5	11532.4	11467.4	10428.7
50°	2875.3	2965.5	3633.3	4279.0	5433.0	7545.9	9348.6	11919.5	12302.2	12232.8	11038.9
52.5°	2535.5	2579.8	2850.2	3927.4	4992.7	7225.3	9536.2	12732.2	13150.3	12936.1	11752.6
55°	2390.7	2411.4	2534.0	3212.2	4604.1	6699.3	9644.1	13643.8	13878.8	13561.1	12417.5
57.5°	2234.1	2282.8	2344.9	2706.9	4171.2	5970.8	9577.6	14400.4	14438.8	14122.6	12984.9
60°	2086.3	2107.0	2235.6	2426.2	3673.2	5218.8	9202.3	14871.7	15007.6	14619.0	13667.5
62.5°	1954.8	1991.8	2067.1	2245.9	3340.8	4633.6	8534.4	15053.4	15304.6	15052.0	14128.5
65°	1830.7	1842.5	1928.2	2090.8	2972.9	4345.5	8148.8	14766.8	15174.6	15134.7	14330.9
67.5°	1684.4	1697.7	1773.1	1885.4	2513.3	4024.9	7144.0	14361.9	14704.7	14840.7	14215.7
70°	1493.8	1504.2	1592.8	1659.3	2107.0	3552.1	5998.9	13741.4	14112.2	13986.6	13441.4
72.5°	1275.1	1291.4	1362.3	1445.1	1752.4	2995.0	4698.7	12442.6	13292.2	13209.4	12291.9
75°	1029.9	1055.0	1112.6	1211.6	1424.4	2378.9	3326.0	10068.1	11882.6	12006.7	10607.4
77.5°	487.6	512.7	564.4	647.2	862.9	1659.3	1820.4	5675.3	9254.0	10022.3	8540.3
80°	159.6	162.5	382.7	437.4	548.2	1022.5	743.2	1851.4	2740.9	4635.1	4593.8
82.5°	85.7	93.1	206.9	254.1	274.8	274.8	217.2	817.1	1154.0	1411.1	1634.2
85°	45.8	47.3	72.4	87.2	94.6	75.4	56.1	336.9	540.8	675.2	669.3
87.5°	19.2	20.7	22.2	19.2	16.3	10.3	7.4	5.9	5.9	5.9	5.9
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°	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1	4044.1
2.5°	4019.0	3998.3	3988.0	3945.1	3897.8	3847.6	3807.7	3809.2	3840.2	3863.8	3862.4
5°	4064.8	4013.1	3949.5	3849.1	3807.7	3770.7	3726.4	3667.3	3686.5	3710.2	3727.9
7.5°	4089.9	4023.4	3937.7	3788.5	3720.5	3640.7	3599.4	3522.5	3490.0	3513.7	3513.7
10°	4081.0	4013.1	3865.3	3756.0	3623.0	3497.4	3414.7	3395.4	3367.4	3362.9	3361.5
12.5°	4140.1	4039.7	3821.0	3659.9	3538.8	3377.7	3289.1	3271.3	3277.2	3240.3	3246.2
15°	4197.8	4084.0	3782.6	3615.6	3428.0	3238.8	3167.9	3102.9	3132.4	3101.4	3108.8
17.5°	4301.2	4163.8	3761.9	3527.0	3286.1	3122.1	2995.0	2921.1	2918.2	2913.8	2901.9
20°	4419.4	4228.8	3758.9	3450.1	3170.9	2975.8	2794.1	2712.8	2653.7	2674.4	2675.9
22.5°	4633.6	4351.4	3790.0	3379.2	3009.8	2791.1	2604.9	2480.8	2409.9	2421.7	2423.2
25°	4938.0	4608.5	3871.2	3318.6	2875.3	2576.9	2393.7	2237.0	2151.3	2152.8	2176.5
27.5°	5379.8	4915.9	4001.2	3266.9	2732.0	2374.4	2126.2	1972.6	1879.5	1878.0	1894.2
30°	5817.2	5300.0	4187.4	3193.0	2550.3	2102.6	1821.8	1699.2	1641.6	1603.2	1612.0
32.5°	6250.1	5712.3	4429.7	3154.6	2337.5	1781.9	1547.0	1462.8	1390.4	1319.5	1326.9
35°	6740.7	6099.4	4673.5	3077.8	2081.9	1516.0	1352.0	1236.7	1143.6	1106.7	1099.3
37.5°	7316.9	6550.1	4842.0	3012.8	1779.0	1337.2	1137.7	1052.0	991.4	951.6	945.6
40°	7825.2	6928.3	5028.2	2860.6	1487.9	1176.1	950.1	904.3	896.9	865.9	861.4
42.5°	8339.4	7392.3	5155.2	2661.1	1288.4	970.8	812.7	839.3	880.6	861.4	861.4
45°	8863.9	7876.9	5180.3	2362.6	1097.8	821.5	778.7	828.9	886.5	891.0	889.5
47.5°	9438.7	8306.9	5229.1	1935.6	961.9	783.1	772.8	814.1	888.0	914.6	908.7
50°	10090.3	8772.3	5093.2	1476.1	880.6	787.5	778.7	797.9	877.7	907.2	896.9
52.5°	10724.2	9220.0	4868.6	1125.9	828.9	792.0	809.7	794.9	852.6	882.1	893.9
55°	11312.2	9713.5	4392.8	1001.8	793.5	786.1	834.8	808.2	828.9	837.8	854.0
57.5°	11907.7	10077.0	3887.5	939.7	774.2	778.7	820.0	808.2	821.5	811.2	797.9
60°	12466.2	10459.7	3235.9	882.1	753.6	774.2	790.5	787.5	796.4	777.2	768.3
62.5°	12940.5	10666.5	2554.7	831.9	735.8	753.6	750.6	765.4	766.9	744.7	738.8
65°	13157.7	10755.2	1950.4	786.1	709.2	727.0	712.2	715.1	716.6	687.1	685.6
67.5°	12937.6	10267.6	1337.2	718.1	681.2	703.3	675.2	670.8	660.5	630.9	632.4
70°	12294.8	9453.5	892.4	620.6	620.6	659.0	642.7	632.4	607.3	579.2	588.1
72.5°	10858.6	8070.5	579.2	500.9	545.2	607.3	599.9	585.1	526.0	446.2	449.2
75°	9288.0	6405.2	385.6	365.0	416.7	526.0	499.4	464.0	440.3	465.4	496.5
77.5°	7232.7	4084.0	215.7	209.8	246.8	369.4	416.7	424.1	599.9	712.2	704.8
80°	3754.5	2074.5	125.6	103.4	146.3	248.2	328.0	446.2	744.7	561.5	543.7
82.5°	1476.1	777.2	76.8	54.7	65.0	102.0	217.2	641.3	564.4	283.7	271.9
85°	505.3	175.8	31.0	28.1	31.0	42.8	85.7	574.8	292.6	180.3	171.4
87.5°	5.9	5.9	7.4	8.9	10.3	10.3	23.6	273.3	135.9	84.2	81.3
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)