

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: P510135

Luminaire Tested: **VERD-M-CA4-210-740-U-T3**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-210-740-U-T3  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 4000K, 960mA LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30177 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

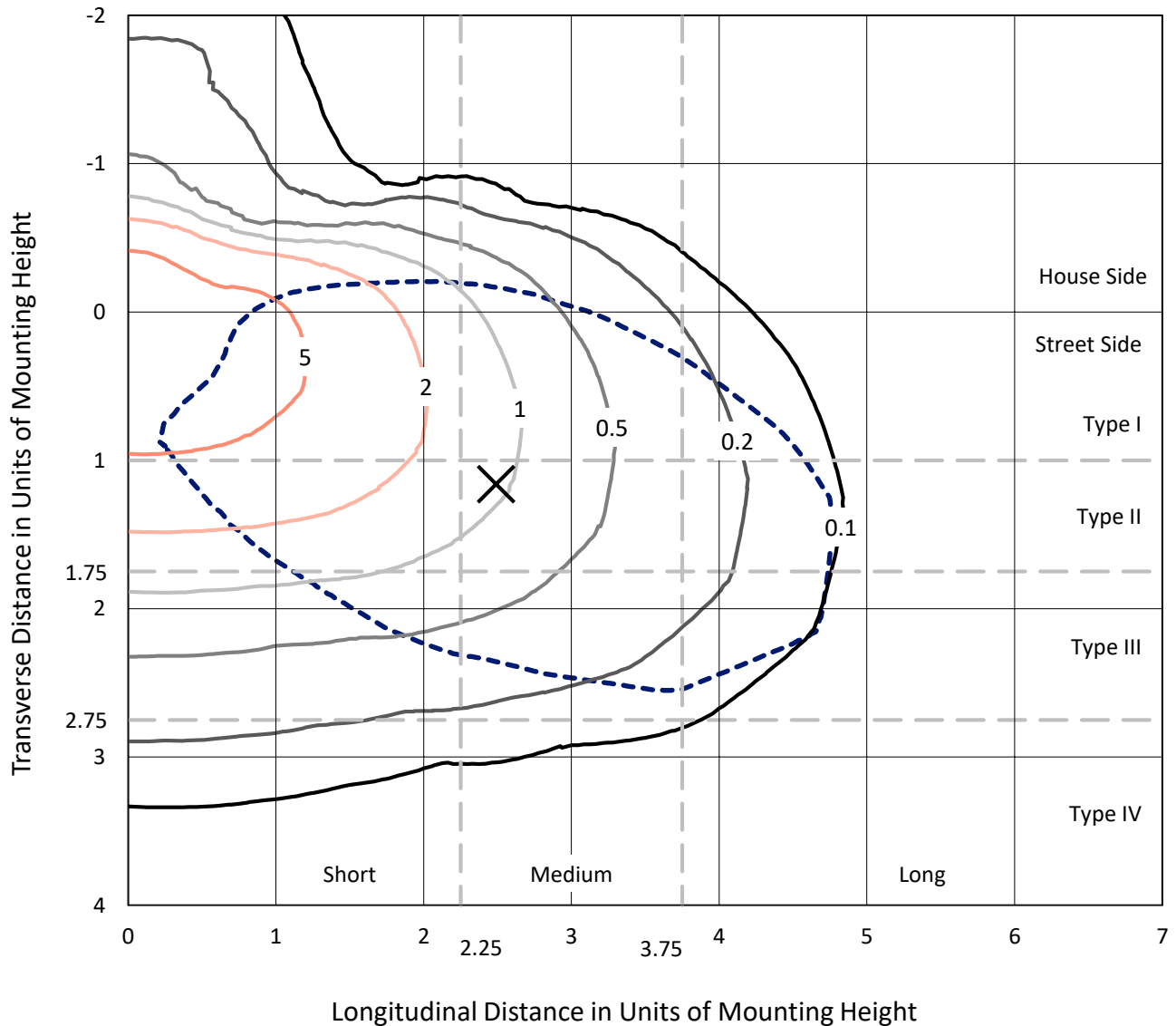
Input Watts (W): 213.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

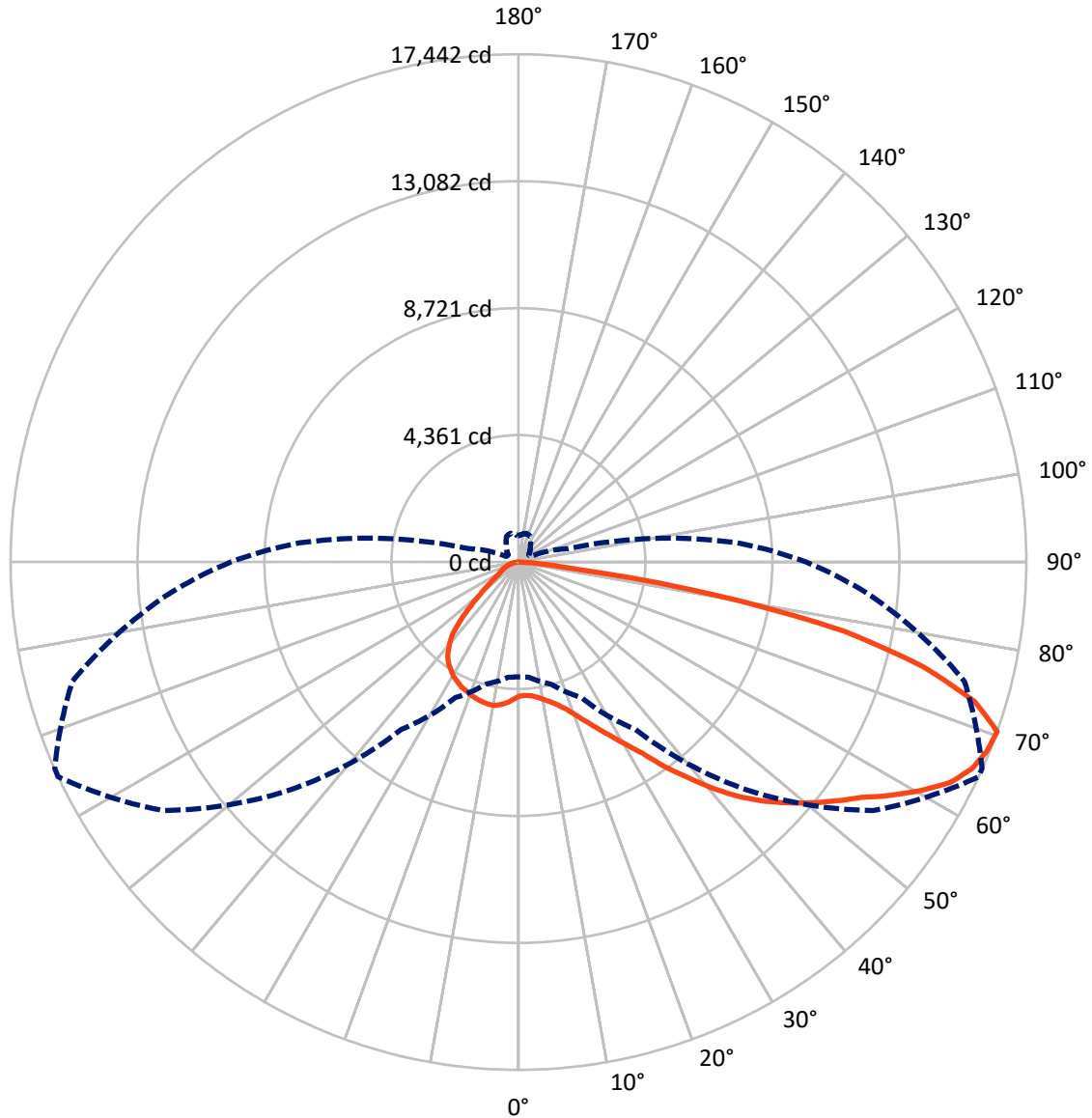
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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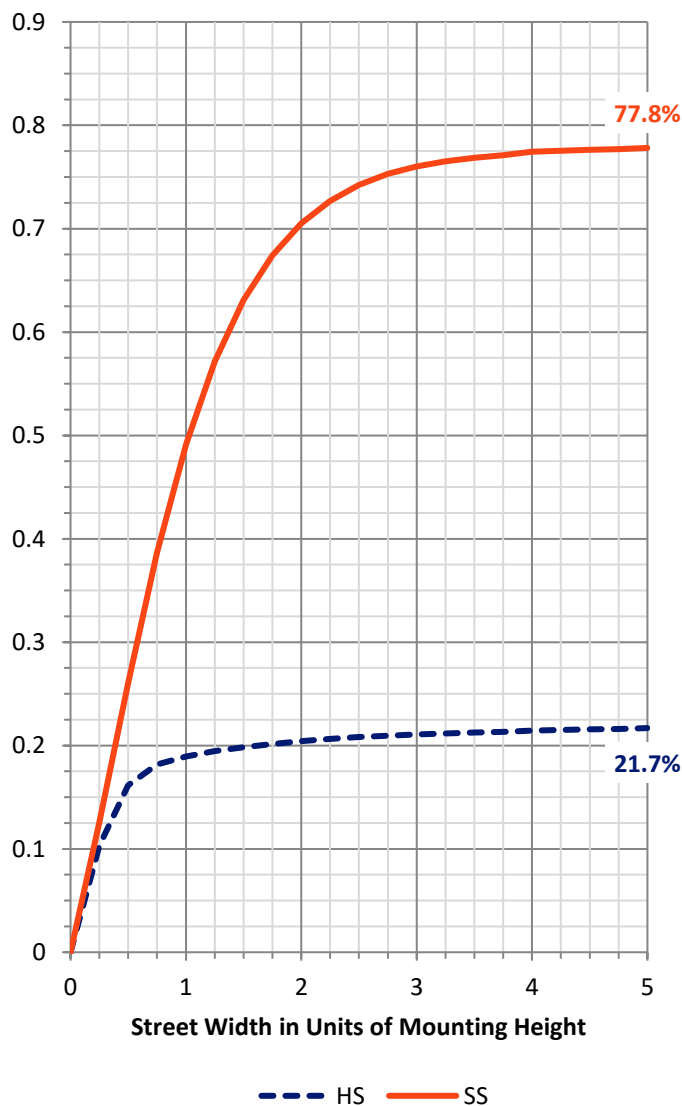
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6656.8	0.0	6656.8
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	23520.2	0.0	23520.2
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	30177.0	0.0	30177.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.2	1.5
10°-20°	1460.7	4.8
20°-30°	2534.1	8.4
30°-40°	3684.5	12.2
40°-50°	4922.5	16.3
50°-60°	5996.1	19.9
60°-70°	6463.9	21.4
70°-80°	4190.8	13.9
80°-90°	462.2	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°	30177.0	100.0
0°-180°	30177.0	100.0



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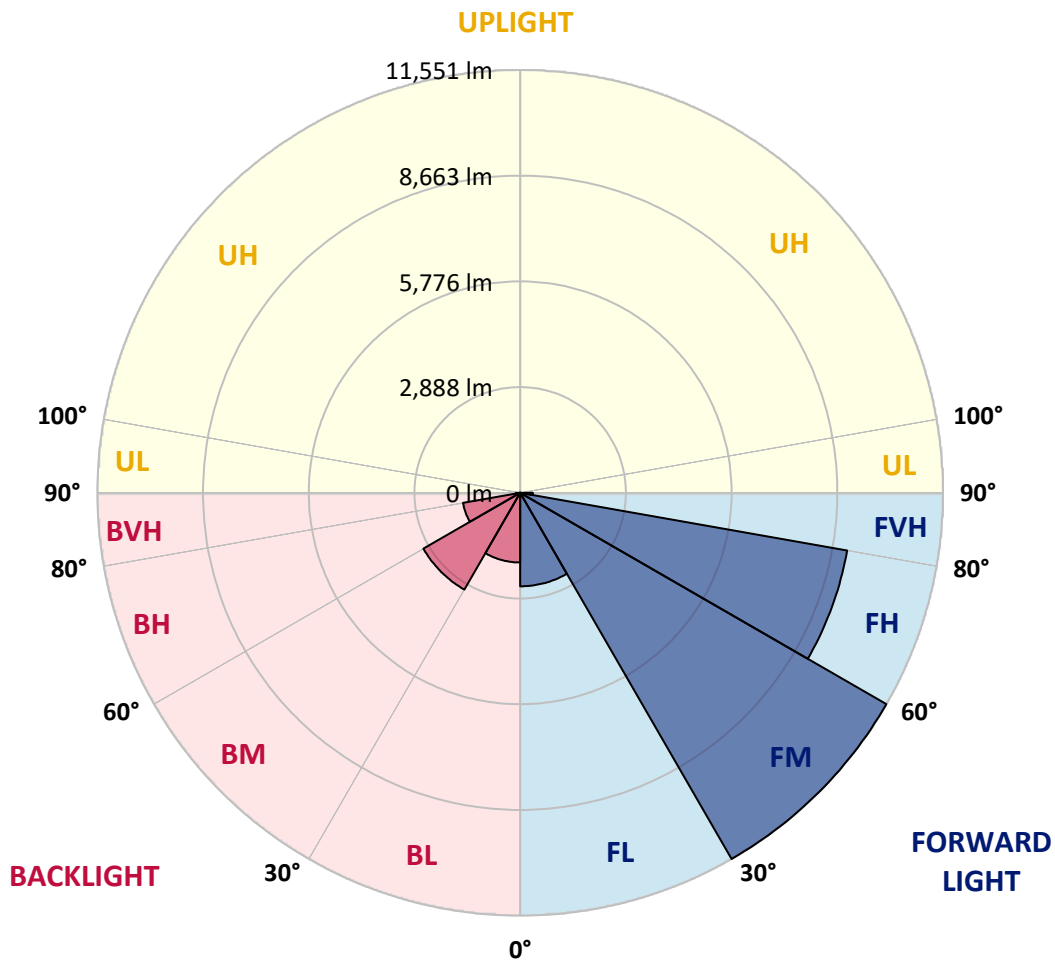
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2553.8	8.5			
FM	(30°-60°)	11551.2	38.3			
FH	(60°-80°)	9070.5	30.1			G4/12000
FVH	(80°-90°)	344.7	1.1			G3/500
BL	(0°-30°)	1903.1	6.3	B3/2500		
BM	(30°-60°)	3051.9	10.1	B3/5000		
BH	(60°-80°)	1584.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	117.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2
2.5°	4539.1	4580.0	4558.2	4559.5	4590.8	4565.0	4582.7	4582.7	4581.3	4590.8	4619.4
5°	4650.7	4694.2	4668.4	4652.1	4658.9	4626.2	4619.4	4614.0	4609.9	4620.8	4668.4
7.5°	4814.0	4864.3	4835.8	4820.8	4812.6	4737.8	4724.2	4687.4	4683.4	4692.9	4736.4
10°	5030.3	5098.4	5064.3	5022.2	4993.6	4906.5	4837.1	4804.5	4794.9	4789.5	4834.4
12.5°	5341.9	5401.8	5362.3	5283.4	5245.3	5105.2	5022.2	4929.6	4928.3	4909.2	4943.2
15°	5637.2	5699.8	5649.4	5571.9	5521.5	5332.4	5209.9	5095.6	5082.0	5060.3	5071.1
17.5°	5922.9	5999.1	5963.7	5893.0	5831.8	5620.9	5460.3	5313.3	5298.4	5264.4	5214.0
20°	6278.0	6347.4	6337.9	6274.0	6205.9	5966.5	5790.9	5601.8	5585.5	5524.2	5411.3
22.5°	6633.2	6718.9	6665.8	6654.9	6616.8	6378.7	6133.8	5942.0	5925.6	5845.4	5638.5
25°	6967.9	7044.1	7063.1	7045.5	7049.5	6814.1	6570.6	6329.8	6313.4	6204.6	5905.2
27.5°	7363.8	7436.0	7441.4	7445.5	7493.1	7297.2	7011.4	6763.8	6752.9	6630.5	6250.8
30°	7667.3	7787.0	7811.5	7834.6	7859.1	7754.4	7494.5	7263.2	7241.4	7108.0	6640.0
32.5°	7944.8	8034.6	8121.7	8169.4	8279.6	8185.7	7972.1	7829.2	7830.5	7768.0	7260.4
35°	8159.8	8259.2	8369.4	8543.5	8704.1	8664.6	8598.0	8606.1	8607.5	8634.7	8097.2
37.5°	8365.3	8455.1	8593.9	8802.1	9085.1	9136.8	9181.7	9351.8	9411.6	9539.5	8870.1
40°	8489.1	8584.4	8764.0	9052.4	9419.8	9606.2	9742.3	10179.0	10282.4	10283.8	9467.4
42.5°	8308.1	8412.9	8734.0	9247.0	9721.9	10070.2	10428.0	10979.1	11053.9	10886.6	9977.7
45°	8146.2	8242.8	8588.4	9276.9	9958.6	10565.5	11063.5	11701.6	11756.0	11418.6	10448.4
47.5°	7989.7	8065.9	8466.0	9214.3	10200.8	11062.1	11605.0	12354.7	12394.2	12000.9	10908.3
50°	7773.4	7864.6	8289.1	9140.9	10346.4	11488.0	12135.7	12999.7	12994.2	12524.8	11324.7
52.5°	7536.6	7626.5	8082.3	9006.2	10441.6	11818.6	12739.8	13631.0	13635.1	13126.2	11737.0
55°	7238.7	7348.9	7829.2	8823.8	10464.8	12078.5	13263.6	14278.7	14345.3	13739.9	12134.3
57.5°	6882.2	6992.4	7517.6	8557.1	10327.3	12296.2	13822.9	15106.0	15141.3	14367.1	12430.9
60°	6467.2	6600.5	7102.6	8200.6	10064.7	12549.3	14500.5	15916.9	15929.1	14927.7	12678.6
62.5°	5986.9	6082.1	6610.0	7683.6	9645.7	12650.0	15061.1	16661.2	16663.9	15350.9	12790.1
65°	5467.1	5503.8	5946.0	6980.1	9034.7	12485.3	15276.0	17114.3	17102.0	15722.3	12734.3
67.5°	4848.0	4830.3	5302.5	6110.7	8261.9	11937.0	15171.3	17346.9	17383.7	16008.1	12554.7
70°	3941.8	3967.7	4343.2	5137.8	7014.2	11056.7	14882.8	17442.2	17432.7	15865.2	11976.5
72.5°	2992.1	3038.3	3310.5	3906.4	5444.0	9298.7	13647.3	16389.0	16408.1	14858.3	10935.6
75°	1850.5	1983.8	2213.8	2577.1	3411.2	6661.8	11615.9	14356.2	14452.8	13109.9	9004.8
77.5°	810.9	842.2	957.9	1242.3	1783.8	3344.5	8587.1	11464.9	11750.6	10602.2	6495.8
80°	502.1	502.1	534.7	623.2	796.0	1243.6	3441.1	6845.4	6555.6	6064.4	2865.5
82.5°	417.7	417.7	434.0	449.0	408.2	526.6	1151.1	1918.5	2055.9	1664.1	880.3
85°	227.2	232.7	234.0	238.1	234.0	284.4	453.1	567.4	574.2	519.8	312.9
87.5°	83.0	88.4	85.7	80.3	72.1	68.0	87.1	88.4	91.2	84.4	46.3
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°	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2	4607.2
2.5°	4638.5	4657.5	4707.9	4711.9	4731.0	4737.8	4754.1	4777.2	4818.1	4797.7	4774.5
5°	4691.5	4716.0	4796.3	4837.1	4890.2	4921.5	4973.2	4999.0	5061.6	5041.2	5038.5
7.5°	4771.8	4823.5	4895.6	4935.1	5004.5	5024.9	5063.0	5063.0	5114.7	5088.8	5082.0
10°	4880.7	4914.7	4990.9	4993.6	5033.1	5033.1	5078.0	5049.4	5099.7	5069.8	5068.4
12.5°	4967.7	4986.8	5015.4	4992.2	5012.6	4989.5	5012.6	4978.6	5009.9	4971.8	4963.7
15°	5065.7	5039.9	5011.3	4956.9	4939.2	4902.4	4883.4	4848.0	4850.7	4807.2	4800.4
17.5°	5175.9	5109.2	5026.2	4907.9	4842.6	4748.7	4709.2	4658.9	4630.3	4590.8	4608.5
20°	5309.3	5209.9	5037.1	4853.4	4714.7	4571.8	4479.3	4397.6	4390.8	4355.4	4336.4
22.5°	5482.1	5322.9	5084.8	4775.9	4552.7	4348.6	4211.2	4075.2	4061.5	3989.4	3962.2
25°	5695.7	5472.5	5109.2	4716.0	4363.6	4083.3	3867.0	3677.8	3586.7	3510.5	3492.8
27.5°	5982.8	5693.0	5158.2	4608.5	4140.5	3754.0	3443.8	3193.4	3084.6	3046.5	3007.0
30°	6318.9	5962.4	5249.4	4518.7	3876.5	3333.6	2955.3	2657.4	2539.0	2479.1	2460.1
32.5°	6814.1	6302.5	5333.8	4370.4	3556.7	2871.0	2378.4	2049.1	1977.0	1966.1	1992.0
35°	7535.3	6942.0	5456.2	4233.0	3181.2	2356.6	1812.4	1597.4	1582.4	1585.2	1585.2
37.5°	8286.4	7551.6	5819.5	4030.2	2721.3	1774.3	1379.7	1262.7	1268.1	1268.1	1266.8
40°	8776.2	8041.5	6083.5	3743.2	2149.8	1272.2	1023.2	934.8	972.9	1024.6	1051.8
42.5°	9316.4	8486.4	6265.8	3412.5	1495.4	899.4	744.3	775.6	887.1	966.1	976.9
45°	9776.3	8864.6	6286.2	2898.2	963.3	683.0	679.0	768.8	898.0	983.8	990.6
47.5°	10170.9	9208.9	6158.3	2310.4	702.1	638.1	679.0	791.9	908.9	962.0	967.4
50°	10553.2	9482.4	5857.6	1775.7	639.5	621.8	687.1	796.0	869.5	906.2	900.8
52.5°	10893.4	9731.4	5422.2	1385.1	615.0	610.9	693.9	791.9	838.2	835.4	831.4
55°	11151.9	9804.9	5082.0	1080.4	594.6	604.1	698.0	796.0	830.0	805.5	800.1
57.5°	11285.2	9713.7	4796.3	858.6	572.8	597.3	708.9	794.6	854.5	900.8	898.0
60°	11282.5	9610.3	4443.9	740.2	551.1	591.9	726.6	862.7	1079.0	1122.5	1123.9
62.5°	11239.0	9433.4	3960.9	669.4	526.6	594.6	738.8	979.7	1228.7	1193.3	1164.7
65°	11094.8	9101.4	3313.2	593.2	495.3	597.3	733.4	1059.9	1126.6	1000.1	982.4
67.5°	10693.4	8459.2	2601.6	530.7	466.7	582.4	742.9	985.1	1035.5	955.2	929.3
70°	9878.3	7554.3	1763.4	457.2	434.0	560.6	721.1	968.8	1021.8	940.2	902.1
72.5°	8587.1	6063.1	1031.4	393.2	386.4	515.7	710.3	979.7	1038.2	947.0	898.0
75°	6683.5	4250.7	596.0	318.4	322.5	476.2	651.8	923.9	1028.7	957.9	893.9
77.5°	4314.6	2064.1	420.4	254.4	251.7	375.5	529.3	808.2	990.6	967.4	914.4
80°	1544.3	753.8	295.3	189.1	183.7	254.4	406.8	650.4	838.2	868.1	868.1
82.5°	555.1	378.3	189.1	115.7	114.3	161.9	303.4	493.9	608.2	685.8	704.8
85°	232.7	164.6	92.5	58.5	47.6	62.6	156.5	306.1	412.3	443.6	483.0
87.5°	34.0	29.9	24.5	19.0	16.3	16.3	20.4	88.4	147.0	210.9	261.2
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)