

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: P510294

Luminaire Tested: **VERD-M-CA4-240-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-240-760-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1090mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31132 lumens  
Efficiency: N/A  
Efficacy: 128.5 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

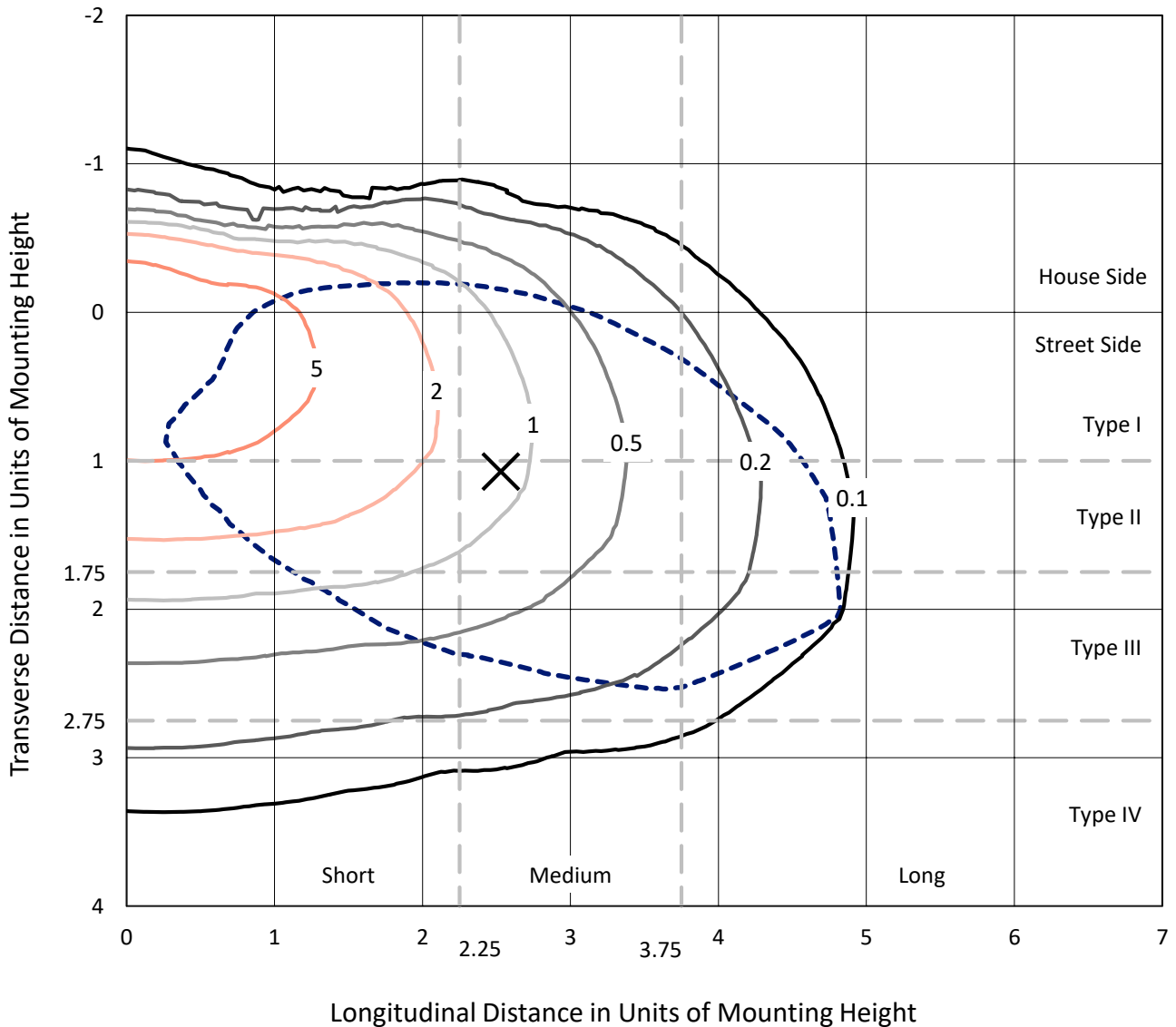
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

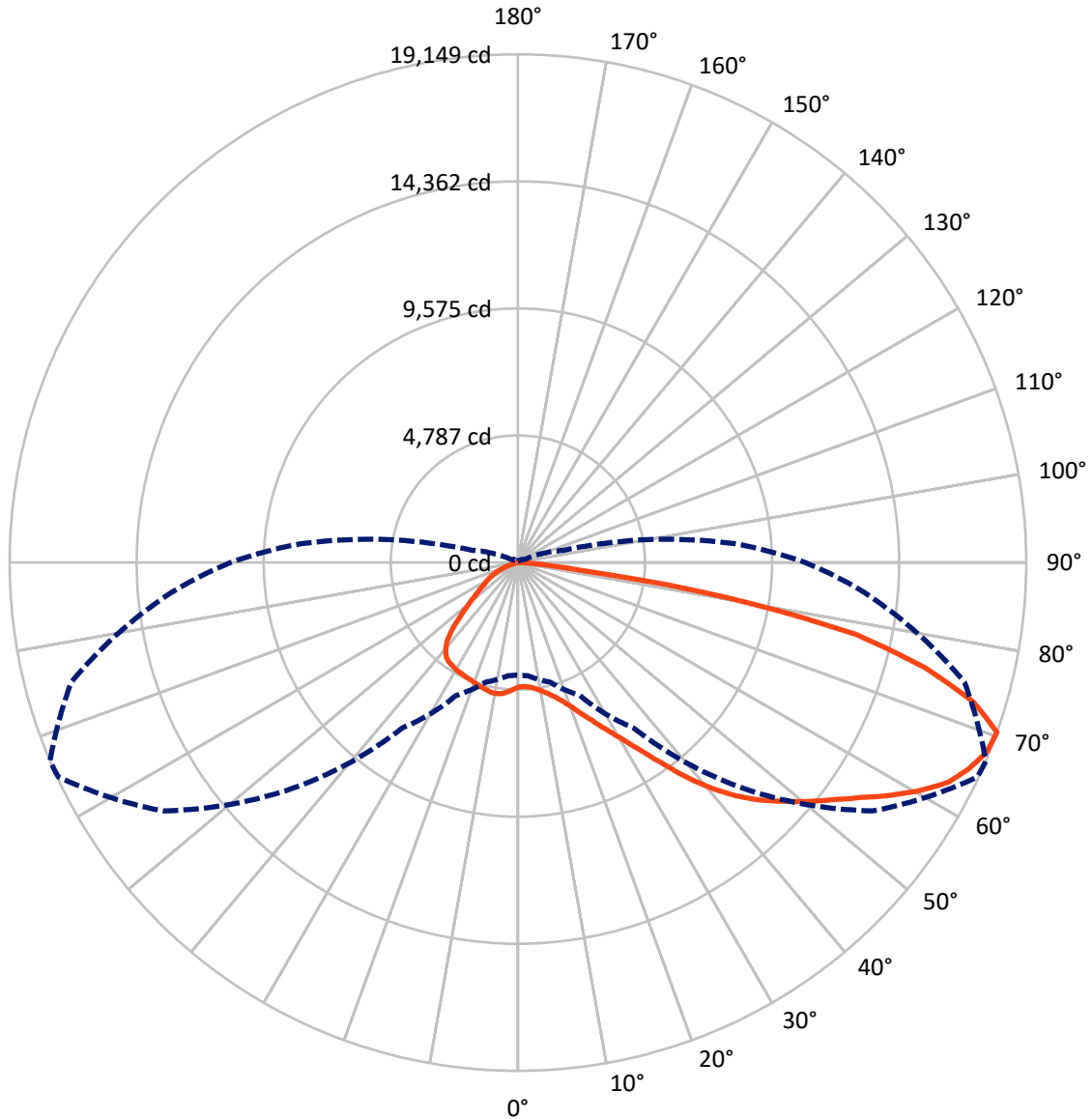
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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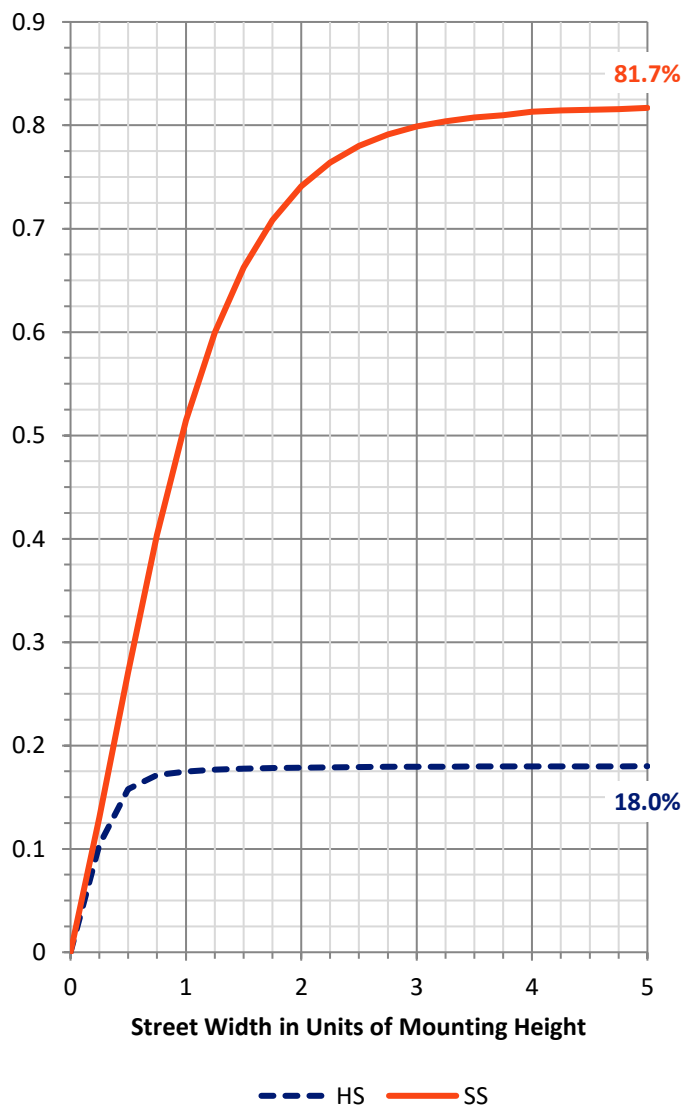
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5672.5	0.0	5672.5
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	25459.5	0.0	25459.5
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	31132.0	0.0	31132.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.6	1.5
10°-20°	1455.6	4.7
20°-30°	2525.5	8.1
30°-40°	3750.9	12.0
40°-50°	5146.0	16.5
50°-60°	6319.6	20.3
60°-70°	6775.3	21.8
70°-80°	4301.1	13.8
80°-90°	391.4	1.3
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°	31132.0	100.0
0°-180°	31132.0	100.0

**Coefficient of Utilization**



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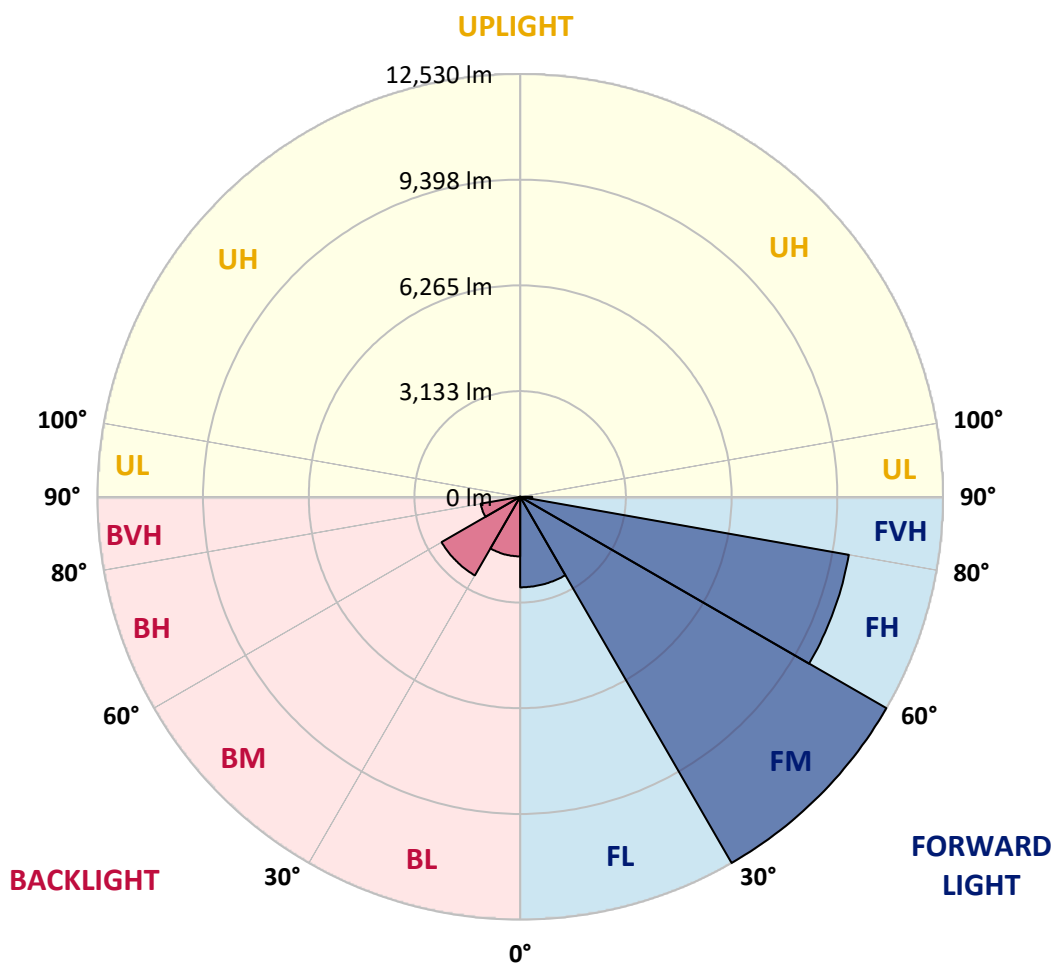
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2682.3	8.6			
FM	(30°-60°)	12530.3	40.2			
FH	(60°-80°)	9889.9	31.8			G4/12000
FVH	(80°-90°)	357.0	1.1			G3/500
BL	(0°-30°)	1765.4	5.7	B3/2500		
BM	(30°-60°)	2686.3	8.6	B3/5000		
BH	(60°-80°)	1186.5	3.8	B3/2500		G3/2500
BVH	(80°-90°)	34.4	0.1			G1/100
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°	67°	75°	85°
0°	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0
2.5°	4640.8	4684.5	4658.9	4655.8	4686.0	4657.3	4676.9	4672.4	4669.4	4673.9	4705.5
5°	4762.8	4814.0	4779.4	4768.8	4785.4	4734.2	4729.6	4719.1	4716.1	4717.6	4762.8
7.5°	4933.0	4993.2	4979.7	4952.6	4943.5	4859.2	4844.1	4806.5	4794.4	4797.4	4842.6
10°	5201.1	5261.4	5234.2	5174.0	5136.3	5039.9	4985.7	4937.5	4913.4	4916.4	4964.6
12.5°	5544.5	5601.8	5556.6	5446.6	5425.5	5270.4	5186.0	5083.6	5067.0	5042.9	5094.2
15°	5868.4	5918.1	5897.0	5794.6	5737.3	5553.6	5398.4	5271.9	5256.8	5234.2	5232.7
17.5°	6226.9	6276.6	6237.4	6162.1	6086.8	5868.4	5701.2	5538.5	5499.3	5479.8	5409.0
20°	6609.5	6687.8	6680.2	6618.5	6528.1	6272.1	6035.6	5851.8	5809.6	5773.5	5624.4
22.5°	7004.1	7106.5	7083.9	7050.8	7013.1	6725.4	6449.8	6237.4	6205.8	6129.0	5894.0
25°	7440.9	7511.7	7495.1	7511.7	7486.1	7231.5	6930.3	6671.2	6629.0	6556.7	6196.7
27.5°	7864.2	7938.0	7966.6	7931.9	7948.5	7766.3	7409.3	7177.3	7136.6	7004.1	6561.3
30°	8246.8	8338.6	8379.3	8394.4	8450.1	8261.8	7998.2	7716.6	7703.0	7567.4	7041.8
32.5°	8552.5	8655.0	8754.4	8819.1	8908.0	8825.2	8563.1	8392.9	8394.4	8272.4	7763.2
35°	8773.9	8891.4	9036.0	9207.7	9394.5	9359.9	9204.7	9207.7	9231.8	9272.5	8683.6
37.5°	9019.5	9114.4	9284.6	9524.1	9808.7	9881.0	9860.0	10099.5	10216.9	10289.2	9492.4
40°	9165.6	9262.0	9474.4	9796.7	10210.9	10384.1	10578.4	10998.7	11152.3	11077.0	10183.8
42.5°	9004.4	9090.3	9459.3	10016.6	10540.8	10933.9	11281.9	11896.4	12007.9	11762.4	10766.7
45°	8795.0	8906.5	9295.1	10076.9	10833.0	11473.2	12013.9	12678.2	12761.0	12413.1	11281.9
47.5°	8623.3	8721.2	9174.6	10012.1	11102.6	12026.0	12657.1	13416.2	13437.3	13008.0	11815.1
50°	8403.4	8522.4	8995.4	9932.3	11265.3	12515.5	13246.0	14104.6	14151.3	13624.1	12267.0
52.5°	8173.0	8288.9	8778.5	9801.2	11382.8	12922.2	13857.6	14836.6	14841.1	14276.3	12749.0
55°	7832.5	7956.0	8498.3	9611.4	11418.9	13191.8	14472.1	15583.7	15630.4	14937.6	13185.8
57.5°	7472.5	7578.0	8160.9	9316.2	11284.9	13446.4	15103.2	16413.7	16541.7	15683.1	13560.8
60°	6995.1	7100.5	7716.6	8929.1	11000.2	13732.5	15826.2	17413.8	17427.4	16287.2	13833.5
62.5°	6481.4	6573.3	7139.7	8322.1	10558.9	13842.5	16446.8	18213.7	18212.2	16824.9	13969.0
65°	5871.4	5909.0	6485.9	7576.5	9873.5	13681.3	16721.0	18740.8	18689.6	17212.0	13923.8
67.5°	5148.4	5189.1	5625.9	6650.1	8879.4	13051.7	16599.0	18995.4	19046.6	17556.9	13728.0
70°	4232.6	4280.8	4661.9	5526.5	7612.6	12047.0	16312.8	19105.4	19149.0	17418.4	13124.0
72.5°	3124.0	3188.7	3422.2	4113.6	5778.0	10122.0	14987.3	17901.9	17926.0	16261.6	11866.3
75°	1940.1	2059.1	2279.0	2733.9	3749.1	7099.0	12810.7	16004.0	15853.4	14505.3	9819.3
77.5°	775.7	795.3	905.3	1280.3	1828.6	3696.4	9286.1	12721.8	13009.5	11605.7	7023.7
80°	451.9	448.9	474.5	596.5	784.8	1263.7	3612.0	7136.6	7954.5	6374.5	3160.1
82.5°	364.5	351.0	351.0	382.6	376.6	531.7	1183.9	2084.7	2286.5	2028.9	899.2
85°	191.3	186.8	152.1	188.3	188.3	265.1	454.9	590.5	623.6	543.8	337.4
87.5°	48.2	48.2	48.2	58.7	46.7	55.7	76.8	93.4	96.4	78.3	49.7
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°	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0	4683.0
2.5°	4717.6	4731.2	4783.9	4776.3	4785.4	4785.4	4800.4	4817.0	4866.7	4838.1	4826.0
5°	4771.8	4798.9	4865.2	4889.3	4925.5	4930.0	4960.1	4970.6	5024.9	4994.7	4994.7
7.5°	4875.8	4907.4	4969.1	4978.2	4994.7	4966.1	4973.7	4940.5	4976.7	4940.5	4942.0
10°	4993.2	5014.3	5056.5	4996.3	4970.6	4902.9	4887.8	4806.5	4835.1	4788.4	4776.3
12.5°	5106.2	5098.7	5067.0	4960.1	4889.3	4777.8	4731.2	4621.2	4615.2	4553.4	4541.4
15°	5213.2	5160.4	5058.0	4892.3	4771.8	4616.7	4505.2	4384.7	4342.5	4271.7	4265.7
17.5°	5344.2	5253.8	5071.6	4827.6	4630.2	4404.3	4246.1	4110.6	4023.2	3958.4	3956.9
20°	5503.9	5365.3	5077.6	4753.7	4484.1	4194.9	3973.5	3801.8	3676.8	3595.4	3593.9
22.5°	5704.2	5515.9	5133.3	4669.4	4297.4	3941.9	3666.2	3369.5	3197.8	3032.1	3002.0
25°	5939.2	5668.0	5181.5	4625.7	4113.6	3678.3	3268.6	2834.8	2568.2	2435.6	2385.9
27.5°	6269.0	5921.1	5252.3	4542.9	3940.4	3352.9	2756.5	2283.5	1962.7	1849.7	1849.7
30°	6650.1	6240.4	5384.9	4493.2	3699.4	2896.5	2194.6	1687.0	1388.8	1218.6	1214.0
32.5°	7231.5	6621.5	5505.4	4386.2	3407.2	2399.5	1587.6	1087.5	848.0	742.6	736.6
35°	8067.5	7347.5	5699.7	4279.3	2983.9	1786.4	1007.7	623.6	483.5	423.3	420.2
37.5°	8871.9	8038.9	6118.4	4066.9	2382.9	1122.2	558.8	360.0	295.2	287.7	284.7
40°	9438.2	8635.4	6413.6	3743.0	1693.0	595.0	323.8	260.6	256.1	253.1	251.5
42.5°	10055.8	9078.2	6623.0	3330.3	1004.7	344.9	263.6	235.0	227.4	224.4	224.4
45°	10557.4	9504.5	6662.2	2739.9	506.1	284.7	241.0	213.9	204.9	210.9	212.4
47.5°	11019.8	9906.7	6529.6	2060.6	341.9	265.1	225.9	198.8	192.8	207.9	207.9
50°	11414.4	10247.1	6225.4	1537.9	320.8	250.0	210.9	183.8	182.3	195.8	197.3
52.5°	11807.5	10521.2	5746.4	1161.3	304.3	233.5	195.8	170.2	165.7	174.7	176.2
55°	12119.3	10619.1	5390.9	864.6	292.2	218.4	182.3	156.7	146.1	144.6	147.6
57.5°	12291.1	10533.3	5042.9	635.6	278.7	204.9	168.7	138.6	122.0	122.0	122.0
60°	12294.1	10429.3	4670.9	503.1	263.6	189.8	153.6	119.0	102.4	99.4	99.4
62.5°	12260.9	10244.1	4130.2	436.8	247.0	177.7	134.1	100.9	88.9	84.4	84.4
65°	12114.8	9894.6	3474.9	373.6	227.4	168.7	114.5	90.4	79.8	73.8	73.8
67.5°	11659.9	9239.4	2675.1	325.4	209.4	149.1	103.9	81.3	70.8	64.8	63.3
70°	10825.5	8180.5	1765.3	277.2	191.3	132.6	94.9	73.8	63.3	57.2	55.7
72.5°	9426.2	6657.7	887.2	235.0	164.2	122.0	85.9	64.8	54.2	48.2	48.2
75°	7386.7	4621.2	483.5	186.8	129.5	106.9	75.3	54.2	46.7	42.2	42.2
77.5°	4529.3	2291.0	329.9	144.6	97.9	87.4	60.3	45.2	40.7	39.2	39.2
80°	1652.4	750.1	221.4	102.4	73.8	67.8	48.2	39.2	37.7	37.7	37.7
82.5°	596.5	381.1	149.1	69.3	46.7	51.2	39.2	33.1	31.6	33.1	34.6
85°	245.5	167.2	54.2	39.2	25.6	27.1	24.1	22.6	24.1	25.6	25.6
87.5°	37.7	33.1	19.6	19.6	15.1	13.6	10.5	12.1	15.1	18.1	18.1
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)