

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: P510061

Luminaire Tested: **VERD-M-CA4-200-722-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-200-722-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 910mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23444 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

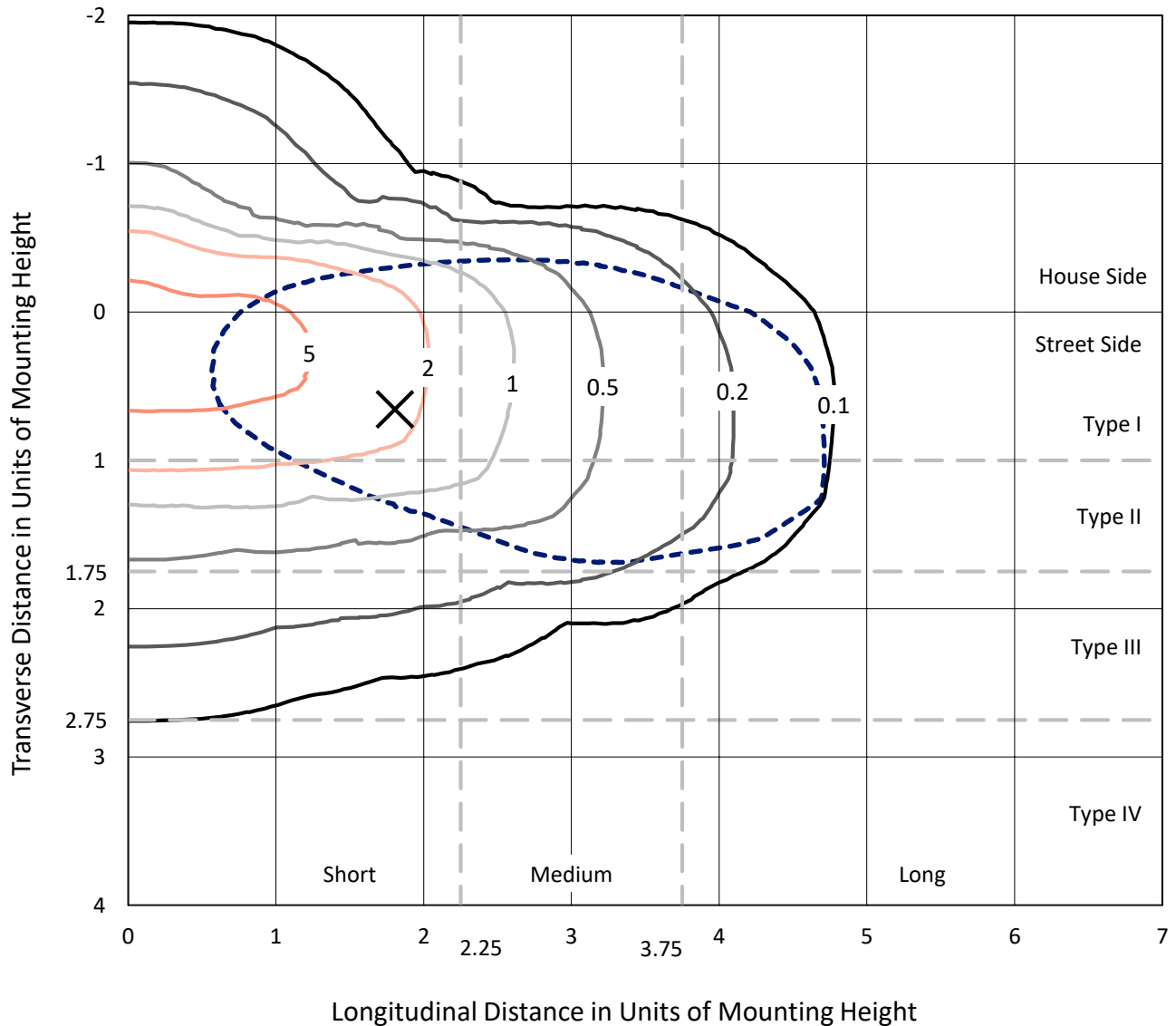
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

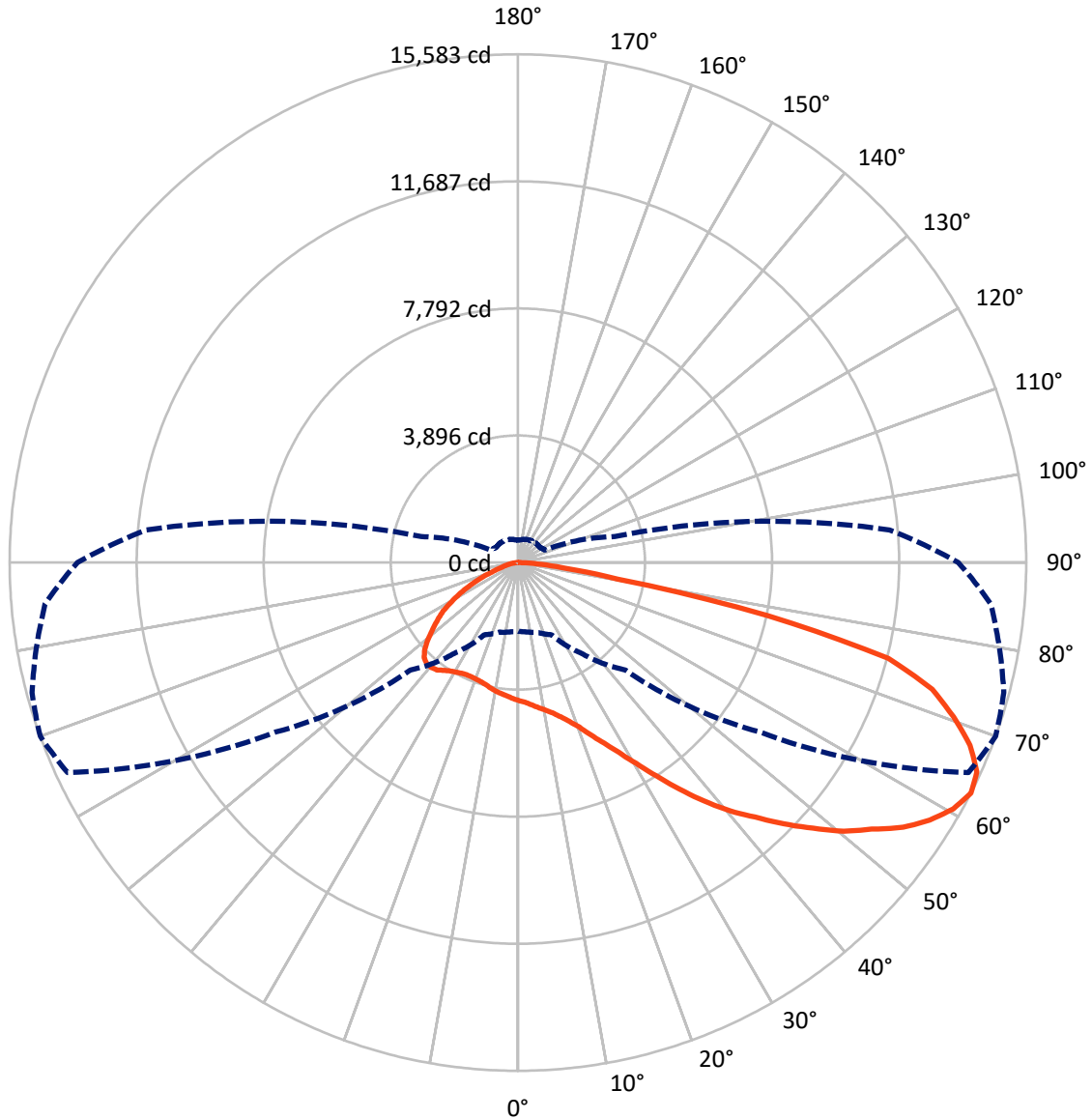
× Max cd  
 - - - 1/2 Max cd



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	6069.8	0.0	6069.8
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	17374.2	0.0	17374.2
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	23444.0	0.0	23444.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.4	1.7
10°-20°	1234.2	5.3
20°-30°	2094.7	8.9
30°-40°	3030.9	12.9
40°-50°	3977.3	17.0
50°-60°	4647.3	19.8
60°-70°	4663.8	19.9
70°-80°	2971.8	12.7
80°-90°	417.6	1.8
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°	23444.0	100.0
0°-180°	23444.0	100.0

**Coefficient of Utilization**



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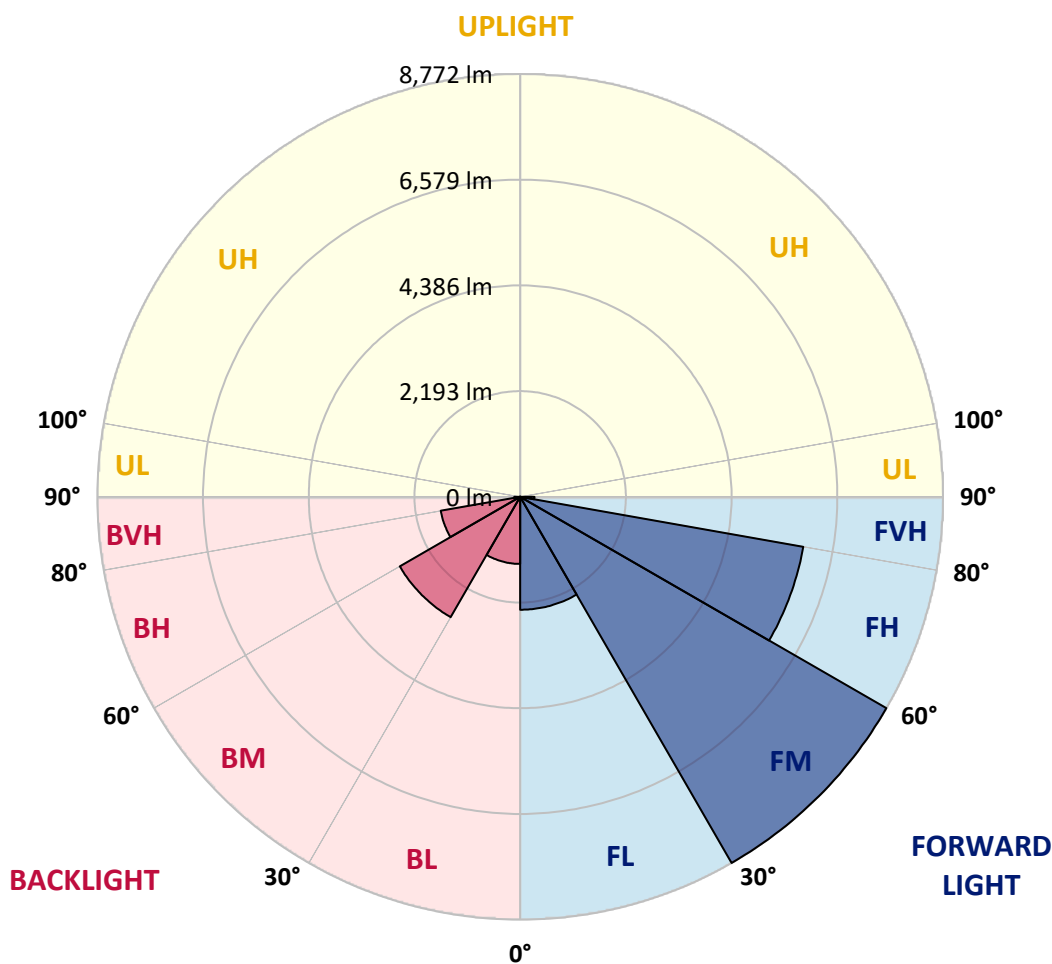
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2343.2	10.0			
FM	(30°-60°)	8772.5	37.4			
FH	(60°-80°)	5963.9	25.4			G3/7500
FVH	(80°-90°)	294.6	1.3			G3/500
BL	(0°-30°)	1392.1	5.9	B3/2500		
BM	(30°-60°)	2883.0	12.3	B3/5000		
BH	(60°-80°)	1671.7	7.1	B3/2500		G3/2500
BVH	(80°-90°)	123.1	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°	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3
2.5°	4393.4	4440.0	4433.7	4405.1	4425.2	4370.1	4350.0	4319.3	4287.5	4276.9	4258.9
5°	4601.1	4662.5	4650.8	4612.7	4611.6	4533.3	4488.8	4430.5	4381.8	4343.6	4287.5
7.5°	4794.9	4865.9	4855.3	4818.2	4816.1	4726.1	4633.9	4542.8	4486.6	4437.9	4335.1
10°	5000.5	5054.5	5045.0	4997.3	4987.7	4899.8	4791.8	4677.3	4594.7	4526.9	4380.7
12.5°	5190.1	5247.3	5251.5	5192.2	5177.4	5083.1	4988.8	4837.3	4730.3	4653.0	4437.9
15°	5367.0	5434.8	5422.1	5362.8	5346.9	5251.5	5159.4	5019.5	4908.3	4800.2	4531.1
17.5°	5509.0	5573.6	5557.7	5531.2	5522.7	5448.6	5372.3	5220.8	5122.3	4983.5	4675.2
20°	5606.4	5666.8	5673.2	5665.8	5714.5	5644.6	5602.2	5495.2	5387.1	5262.1	4872.3
22.5°	5644.6	5716.6	5778.1	5825.7	5926.4	5915.8	5908.4	5846.9	5741.0	5558.8	5132.9
25°	5656.2	5728.3	5823.6	5941.2	6121.3	6185.9	6232.6	6247.4	6131.9	5987.8	5457.1
27.5°	5658.4	5735.7	5833.2	6022.8	6297.2	6492.1	6603.4	6655.3	6590.6	6476.2	5897.8
30°	5613.9	5693.3	5818.3	6071.5	6434.9	6754.9	6939.2	7169.1	7141.5	7045.1	6449.7
32.5°	5485.7	5557.7	5730.4	6063.1	6571.6	7023.9	7311.0	7709.4	7802.6	7740.1	7086.5
35°	5255.8	5343.7	5567.2	5993.1	6645.7	7285.6	7748.6	8368.3	8536.8	8541.0	7867.2
37.5°	5023.8	5090.5	5353.2	5861.8	6687.1	7517.6	8163.9	9028.4	9273.1	9278.4	8516.7
40°	4776.9	4838.4	5127.6	5685.9	6644.7	7699.9	8550.6	9663.0	10013.6	9980.8	9154.4
42.5°	4457.0	4524.8	4811.9	5446.5	6538.7	7840.8	8943.6	10329.3	10666.2	10703.3	9819.8
45°	4183.6	4237.7	4488.8	5072.5	6344.9	7917.0	9312.3	11040.2	11425.8	11386.6	10529.6
47.5°	3846.7	3927.3	4195.3	4768.4	5996.3	7898.0	9665.1	11743.7	12172.7	12136.7	11145.1
50°	2967.4	3060.7	3683.6	4449.6	5551.4	7748.6	9985.0	12416.4	12949.3	12855.0	11796.6
52.5°	2695.2	2721.6	2969.6	4083.0	5112.8	7409.6	10220.2	13266.0	13581.7	13544.7	12456.6
55°	2528.8	2579.7	2693.0	3363.7	4718.7	6858.7	10383.4	13975.9	14331.8	14158.1	13054.2
57.5°	2382.6	2418.7	2553.2	2879.5	4265.2	6100.1	10335.7	14574.4	14892.2	14649.6	13637.9
60°	2226.9	2250.2	2384.8	2628.4	3775.8	5262.1	9851.5	15192.1	15333.0	15110.5	14131.6
62.5°	2106.1	2128.4	2208.9	2443.0	3394.4	4662.5	9059.1	15235.5	15583.0	15420.9	14551.1
65°	1951.4	1966.3	2066.9	2251.3	3040.5	4305.5	8360.9	14827.6	15462.2	15422.0	14712.1
67.5°	1780.9	1798.9	1894.2	2024.5	2588.2	3884.9	7193.5	14607.3	14951.6	14990.8	14410.2
70°	1580.7	1593.4	1691.9	1786.2	2214.2	3410.3	5718.7	13762.9	14164.4	14163.4	13477.9
72.5°	1364.5	1363.5	1460.9	1560.5	1855.0	2864.7	4477.1	12219.3	13281.9	13202.5	12151.5
75°	1125.1	1141.0	1235.3	1313.7	1543.6	2322.2	3117.9	8851.4	11725.6	11834.8	10487.2
77.5°	719.3	729.9	782.9	863.4	1079.5	1774.5	2034.1	4918.9	7829.1	9443.7	8255.0
80°	525.5	530.8	577.4	624.0	718.3	1080.6	1034.0	2137.9	3103.0	4636.0	5064.0
82.5°	358.1	359.1	396.2	406.8	412.1	487.3	490.5	1040.3	1477.9	1740.6	2236.4
85°	237.3	197.1	153.6	203.4	208.7	179.0	174.8	469.3	733.1	879.3	828.5
87.5°	53.0	51.9	60.4	61.4	59.3	50.9	42.4	72.0	110.2	109.1	139.8
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°	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3	4231.3
2.5°	4241.9	4236.6	4207.0	4144.4	4102.1	4058.6	4034.3	4019.4	4024.7	4000.4	3989.8
5°	4252.5	4226.0	4142.3	4068.2	4001.4	3926.2	3863.7	3855.2	3867.9	3845.7	3833.0
7.5°	4280.1	4223.9	4116.9	3989.8	3878.5	3807.6	3717.5	3671.9	3668.8	3646.5	3650.8
10°	4295.9	4222.8	4079.8	3926.2	3795.9	3669.8	3573.4	3522.6	3519.4	3487.6	3480.2
12.5°	4339.4	4234.5	4036.4	3848.9	3703.7	3535.3	3433.6	3387.0	3381.7	3337.2	3320.2
15°	4406.1	4261.0	3990.8	3758.8	3571.3	3413.4	3291.6	3229.1	3219.6	3167.7	3149.7
17.5°	4512.1	4336.2	3977.1	3677.2	3455.8	3283.1	3140.1	3072.3	3017.2	2988.6	2964.3
20°	4655.1	4429.4	3992.9	3601.0	3310.7	3111.5	2933.5	2844.5	2806.4	2759.8	2763.0
22.5°	4858.5	4575.6	4020.5	3541.6	3179.3	2928.2	2728.0	2628.4	2559.6	2520.4	2522.5
25°	5144.5	4796.0	4074.5	3485.5	3036.3	2728.0	2491.8	2353.0	2283.0	2257.6	2231.1
27.5°	5505.8	5059.8	4202.7	3416.6	2866.8	2501.3	2239.6	2077.5	2006.5	1968.4	1963.1
30°	5969.8	5406.2	4353.2	3365.8	2688.8	2218.4	1927.1	1798.9	1736.4	1682.4	1656.9
32.5°	6535.6	5895.7	4520.5	3314.9	2468.4	1901.7	1637.9	1539.3	1439.8	1370.9	1374.1
35°	7192.4	6428.6	4769.5	3250.3	2209.9	1606.1	1423.9	1296.7	1203.5	1157.9	1136.8
37.5°	7812.2	6975.2	5061.9	3184.6	1920.7	1414.3	1213.0	1095.4	1023.4	988.4	995.9
40°	8439.3	7538.8	5314.0	3023.6	1596.5	1240.6	1004.3	937.6	909.0	881.4	884.6
42.5°	9000.8	7988.0	5498.4	2844.5	1369.8	1041.4	856.0	870.8	887.8	871.9	867.7
45°	9585.6	8513.5	5660.5	2539.4	1180.2	884.6	818.9	860.2	897.3	895.2	889.9
47.5°	10172.5	9000.8	5676.4	2134.7	1007.5	831.6	817.9	848.6	897.3	905.8	899.4
50°	10777.5	9511.5	5583.1	1658.0	934.4	838.0	818.9	824.2	878.3	887.8	884.6
52.5°	11448.1	10063.4	5353.2	1260.7	905.8	848.6	822.1	814.7	845.4	862.4	865.5
55°	12064.7	10502.0	4922.1	1113.4	884.6	849.7	845.4	821.0	822.1	813.6	834.8
57.5°	12582.7	10920.5	4432.6	1032.9	865.5	840.1	856.0	810.5	797.7	762.8	754.3
60°	13118.8	11260.6	3744.0	977.8	843.3	828.5	829.5	792.4	760.7	709.8	695.0
62.5°	13499.1	11440.7	3075.5	913.2	812.6	810.5	794.6	767.0	738.4	693.9	687.6
65°	13609.3	11345.3	2362.5	845.4	772.3	780.8	752.2	714.0	595.4	540.3	540.3
67.5°	13244.9	10758.4	1749.1	767.0	723.6	740.5	684.4	562.6	501.1	468.3	473.6
70°	12245.8	9810.2	1138.9	652.6	653.7	667.4	564.7	506.4	448.1	428.0	438.6
72.5°	10911.0	8404.4	751.1	520.2	550.9	527.6	515.9	466.1	414.2	390.9	398.3
75°	8991.3	6636.2	521.2	408.9	357.0	450.3	458.7	392.0	351.7	426.9	443.9
77.5°	7103.4	4612.7	430.1	286.0	263.8	332.7	367.6	363.4	581.6	683.3	675.9
80°	4223.9	2656.0	350.7	198.1	186.5	214.0	289.2	417.4	651.5	489.5	466.1
82.5°	1915.4	1207.7	186.5	103.8	121.8	142.0	216.1	519.1	426.9	313.6	295.6
85°	747.9	394.1	74.2	45.6	42.4	53.0	98.5	250.0	171.6	138.8	138.8
87.5°	96.4	71.0	21.2	15.9	13.8	17.0	31.8	138.8	80.5	67.8	65.7
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)