

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: P510301

Luminaire Tested: **VERD-M-CA4-250-722-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510301  
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-CA4-250-722-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2200K, 1130mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28169 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

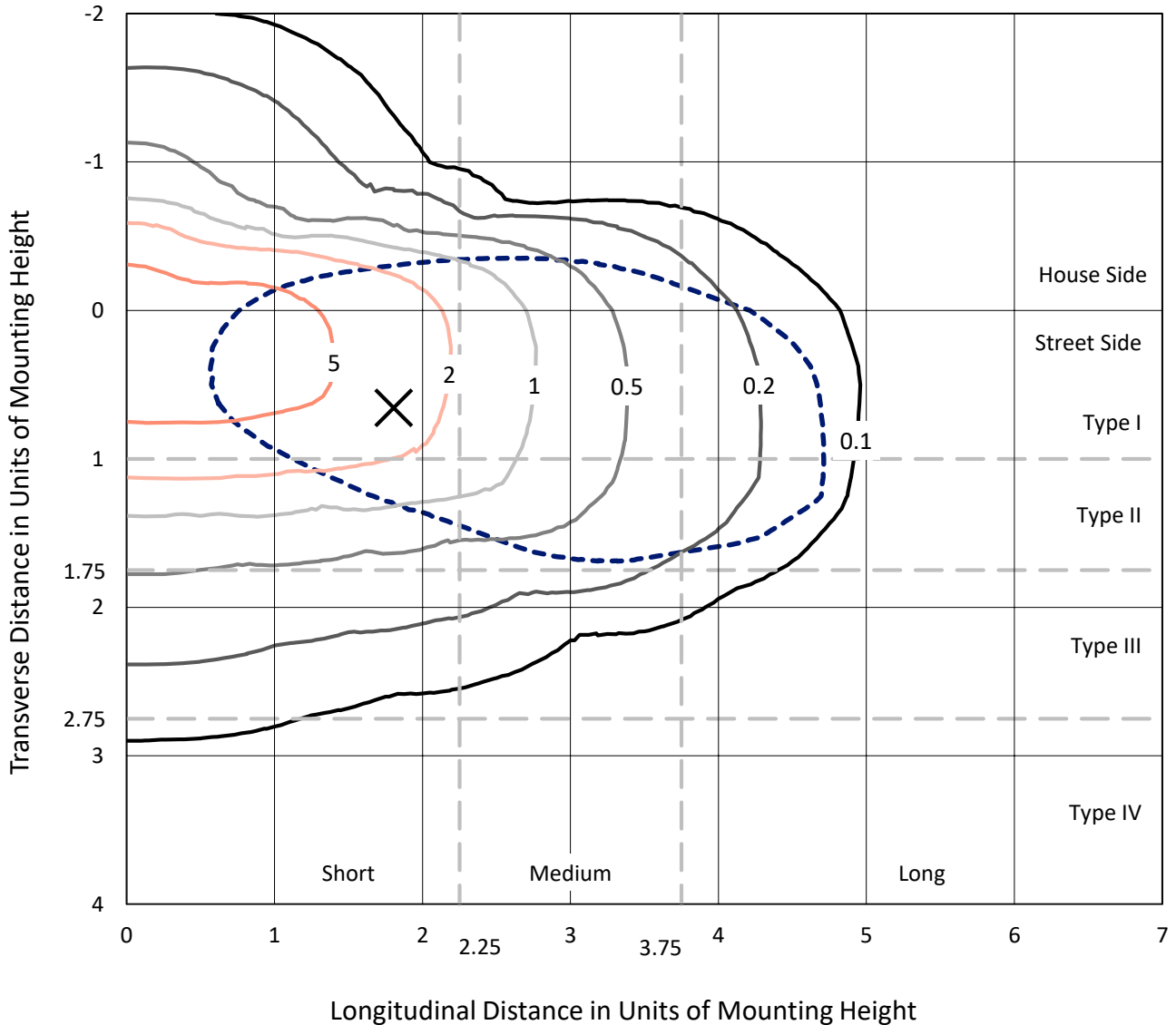
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

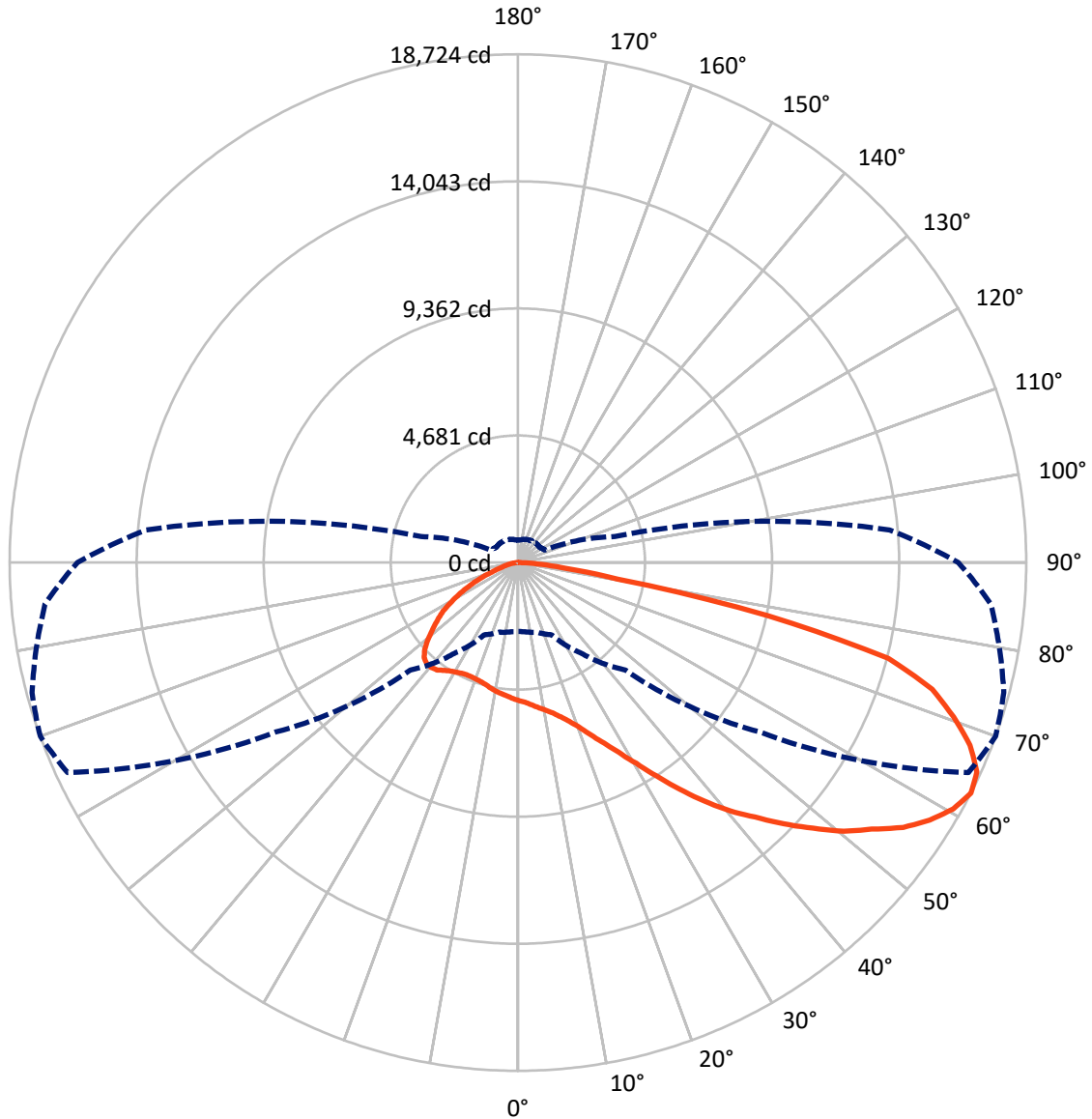
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	7293.1	0.0	7293.1
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	20875.9	0.0	20875.9
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	28169.0	0.0	28169.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.3	1.7
10°-20°	1483.0	5.3
20°-30°	2516.9	8.9
30°-40°	3641.8	12.9
40°-50°	4778.8	17.0
50°-60°	5583.9	19.8
60°-70°	5603.7	19.9
70°-80°	3570.8	12.7
80°-90°	501.8	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°	28169.0	100.0
0°-180°	28169.0	100.0

**Coefficient of Utilization**



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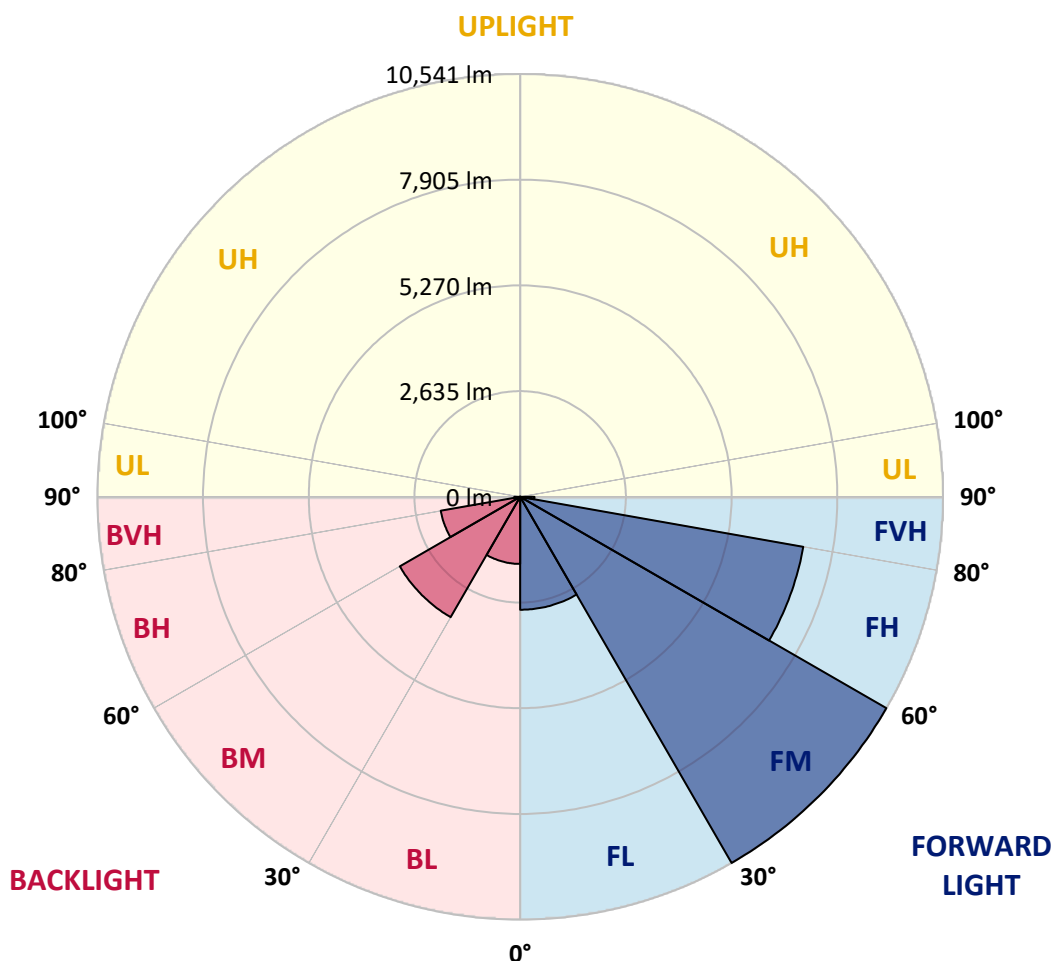
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2815.5	10.0			
FM (30°-60°)	10540.5	37.4			
FH (60°-80°)	7165.9	25.4			G3/7500
FVH (80°-90°)	354.0	1.3			G3/500
BL (0°-30°)	1672.6	5.9	B3/2500		
BM (30°-60°)	3464.0	12.3	B3/5000		
BH (60°-80°)	2008.6	7.1	B3/2500		G3/2500
BVH (80°-90°)	147.8	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°	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1
2.5°	5278.9	5334.9	5327.2	5292.9	5317.1	5250.9	5226.7	5189.8	5151.6	5138.9	5117.2
5°	5528.4	5602.2	5588.2	5542.4	5541.1	5446.9	5393.4	5323.4	5264.9	5219.0	5151.6
7.5°	5761.3	5846.6	5833.9	5789.3	5786.8	5678.6	5567.8	5458.4	5390.9	5332.3	5208.9
10°	6008.3	6073.2	6061.7	6004.5	5993.0	5887.3	5757.5	5620.0	5520.7	5439.3	5263.6
12.5°	6236.1	6304.9	6310.0	6238.7	6220.8	6107.6	5994.3	5812.2	5683.7	5590.7	5332.3
15°	6448.7	6530.2	6514.9	6443.6	6424.5	6310.0	6199.2	6031.2	5897.5	5767.7	5444.4
17.5°	6619.3	6696.9	6677.8	6646.0	6635.8	6546.7	6455.1	6273.0	6154.7	5987.9	5617.5
20°	6736.4	6808.9	6816.6	6807.7	6866.2	6782.2	6731.3	6602.7	6472.9	6322.7	5854.2
22.5°	6782.2	6868.8	6942.6	6999.9	7120.8	7108.1	7099.2	7025.3	6898.1	6679.1	6167.4
25°	6796.2	6882.8	6997.3	7138.6	7355.0	7432.7	7488.7	7506.5	7367.8	7194.6	6556.9
27.5°	6798.8	6891.7	7008.8	7236.7	7566.3	7800.6	7934.2	7996.6	7918.9	7781.5	7086.4
30°	6745.3	6840.8	6991.0	7295.2	7731.8	8116.3	8337.7	8614.0	8580.9	8465.0	7749.6
32.5°	6591.3	6677.8	6885.3	7285.0	7896.0	8439.6	8784.5	9263.2	9375.2	9300.1	8514.7
35°	6315.0	6420.7	6689.3	7201.0	7985.1	8754.0	9310.3	10054.9	10257.3	10262.4	9452.8
37.5°	6036.3	6116.5	6432.2	7043.2	8034.8	9032.8	9809.3	10848.0	11142.0	11148.4	10233.2
40°	5739.7	5813.5	6161.0	6831.9	7983.9	9251.7	10273.9	11610.5	12031.8	11992.4	10999.5
42.5°	5355.3	5436.7	5781.7	6544.2	7856.6	9421.0	10746.1	12411.1	12815.9	12860.5	11798.9
45°	5026.8	5091.8	5393.4	6094.8	7623.6	9512.7	11189.1	13265.3	13728.6	13681.5	12651.7
47.5°	4622.0	4718.8	5040.8	5729.5	7204.8	9489.8	11613.0	14110.5	14626.1	14582.8	13391.3
50°	3565.5	3677.5	4426.0	5346.3	6670.2	9310.3	11997.4	14918.8	15559.1	15445.8	14174.2
52.5°	3238.4	3270.2	3568.0	4905.9	6143.2	8902.9	12280.0	15939.7	16319.1	16274.5	14967.2
55°	3038.5	3099.6	3235.8	4041.6	5669.7	8241.0	12476.1	16792.6	17220.3	17011.5	15685.1
57.5°	2862.8	2906.1	3067.8	3459.8	5124.8	7329.6	12418.8	17511.8	17893.7	17602.2	16386.5
60°	2675.7	2703.7	2865.4	3158.2	4536.8	6322.7	11837.1	18253.9	18423.2	18155.9	16979.7
62.5°	2530.6	2557.3	2654.1	2935.4	4078.5	5602.2	10884.9	18306.1	18723.6	18528.9	17483.8
65°	2344.8	2362.6	2483.5	2705.0	3653.3	5173.2	10046.0	17816.0	18578.5	18530.2	17677.3
67.5°	2139.8	2161.4	2276.0	2432.6	3109.8	4667.9	8643.3	17551.3	17965.0	18012.1	17314.5
70°	1899.2	1914.5	2032.9	2146.2	2660.4	4097.6	6871.3	16536.7	17019.2	17017.9	16194.3
72.5°	1639.5	1638.3	1755.4	1875.0	2228.9	3442.0	5379.4	14682.1	15958.8	15863.4	14600.6
75°	1351.9	1371.0	1484.2	1578.4	1854.7	2790.3	3746.3	10635.4	14088.9	14220.0	12600.8
77.5°	864.3	877.1	940.7	1037.4	1297.1	2132.2	2444.0	5910.3	9407.0	11347.0	9918.7
80°	631.4	637.7	693.8	749.8	863.1	1298.4	1242.4	2568.8	3728.4	5570.4	6084.6
82.5°	430.3	431.5	476.1	488.8	495.2	585.6	589.4	1250.0	1775.7	2091.4	2687.2
85°	285.1	236.8	184.6	244.4	250.8	215.1	210.0	563.9	880.9	1056.5	995.4
87.5°	63.6	62.4	72.6	73.8	71.3	61.1	50.9	86.6	132.4	131.1	168.0
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°	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1
2.5°	5096.8	5090.5	5054.8	4979.7	4928.8	4876.6	4847.3	4829.5	4835.9	4806.6	4793.9
5°	5109.6	5077.8	4977.2	4888.1	4807.9	4717.5	4642.4	4632.2	4647.5	4620.8	4605.5
7.5°	5142.7	5075.2	4946.6	4793.9	4660.2	4574.9	4466.7	4412.0	4408.2	4381.5	4386.5
10°	5161.8	5073.9	4902.1	4717.5	4560.9	4409.5	4293.6	4232.5	4228.7	4190.5	4181.6
12.5°	5214.0	5087.9	4849.9	4624.6	4450.2	4247.8	4125.6	4069.6	4063.2	4009.8	3989.4
15°	5294.2	5119.8	4795.2	4516.4	4291.1	4101.4	3955.0	3879.9	3868.5	3806.1	3784.4
17.5°	5421.4	5210.1	4778.6	4418.4	4152.3	3944.8	3773.0	3691.5	3625.3	3591.0	3561.7
20°	5593.3	5322.2	4797.7	4326.7	3977.9	3738.6	3524.8	3417.8	3372.0	3316.0	3319.8
22.5°	5837.7	5497.8	4830.8	4255.4	3820.1	3518.4	3277.8	3158.2	3075.4	3028.3	3030.9
25°	6181.4	5762.6	4895.7	4188.0	3648.2	3277.8	2994.0	2827.2	2743.2	2712.6	2680.8
27.5°	6615.5	6079.6	5049.7	4105.2	3444.6	3005.4	2691.0	2496.2	2410.9	2365.1	2358.8
30°	7173.0	6495.8	5230.5	4044.1	3230.7	2665.5	2315.5	2161.4	2086.3	2021.4	1990.9
32.5°	7852.8	7083.9	5431.6	3983.0	2965.9	2284.9	1968.0	1849.6	1729.9	1647.2	1651.0
35°	8642.0	7724.2	5730.8	3905.4	2655.3	1929.8	1710.8	1558.1	1446.1	1391.3	1365.9
37.5°	9386.6	8381.0	6082.1	3826.5	2307.8	1699.4	1457.5	1316.2	1229.7	1187.7	1196.6
40°	10140.2	9058.2	6385.1	3633.0	1918.3	1490.6	1206.7	1126.6	1092.2	1059.1	1062.9
42.5°	10814.9	9598.0	6606.5	3417.8	1645.9	1251.3	1028.5	1046.4	1066.7	1047.6	1042.5
45°	11517.5	10229.3	6801.3	3051.2	1418.1	1062.9	984.0	1033.6	1078.2	1075.6	1069.3
47.5°	12222.8	10814.9	6820.4	2565.0	1210.6	999.3	982.7	1019.6	1078.2	1088.4	1080.7
50°	12949.6	11428.4	6708.4	1992.1	1122.7	1006.9	984.0	990.3	1055.3	1066.7	1062.9
52.5°	13755.4	12091.6	6432.2	1514.8	1088.4	1019.6	987.8	978.9	1015.8	1036.2	1040.0
55°	14496.2	12618.6	5914.1	1337.9	1062.9	1020.9	1015.8	986.5	987.8	977.6	1003.1
57.5°	15118.7	13121.4	5326.0	1241.1	1040.0	1009.4	1028.5	973.8	958.5	916.5	906.3
60°	15762.8	13530.1	4498.6	1174.9	1013.3	995.4	996.7	952.2	914.0	852.9	835.0
62.5°	16219.8	13746.5	3695.3	1097.3	976.3	973.8	954.7	921.6	887.2	833.8	826.1
65°	16352.2	13631.9	2838.7	1015.8	928.0	938.2	903.8	858.0	715.4	649.2	649.2
67.5°	15914.3	12926.7	2101.6	921.6	869.4	889.8	822.3	675.9	602.1	562.6	569.0
70°	14713.9	11787.4	1368.4	784.1	785.4	802.0	678.5	608.5	538.5	514.3	527.0
72.5°	13110.0	10098.2	902.5	625.0	661.9	633.9	619.9	560.1	497.7	469.7	478.6
75°	10803.4	7973.7	626.3	491.4	429.0	541.0	551.2	471.0	422.6	513.0	533.4
77.5°	8535.1	5542.4	516.8	343.7	317.0	399.7	441.7	436.6	698.8	821.0	812.1
80°	5075.2	3191.3	421.3	238.0	224.0	257.1	347.5	501.5	782.9	588.1	560.1
82.5°	2301.5	1451.1	224.0	124.7	146.4	170.6	259.7	623.7	513.0	376.8	355.1
85°	898.7	473.5	89.1	54.7	50.9	63.6	118.4	300.4	206.2	166.8	166.8
87.5°	115.8	85.3	25.5	19.1	16.5	20.4	38.2	166.8	96.7	81.5	78.9
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)