

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: P510261

Luminaire Tested: **VERD-M-CA4-240-727-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510261  
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-CA4-240-727-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2700K, 1090mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28318 lumens  
Efficiency: N/A  
Efficacy: 116.9 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

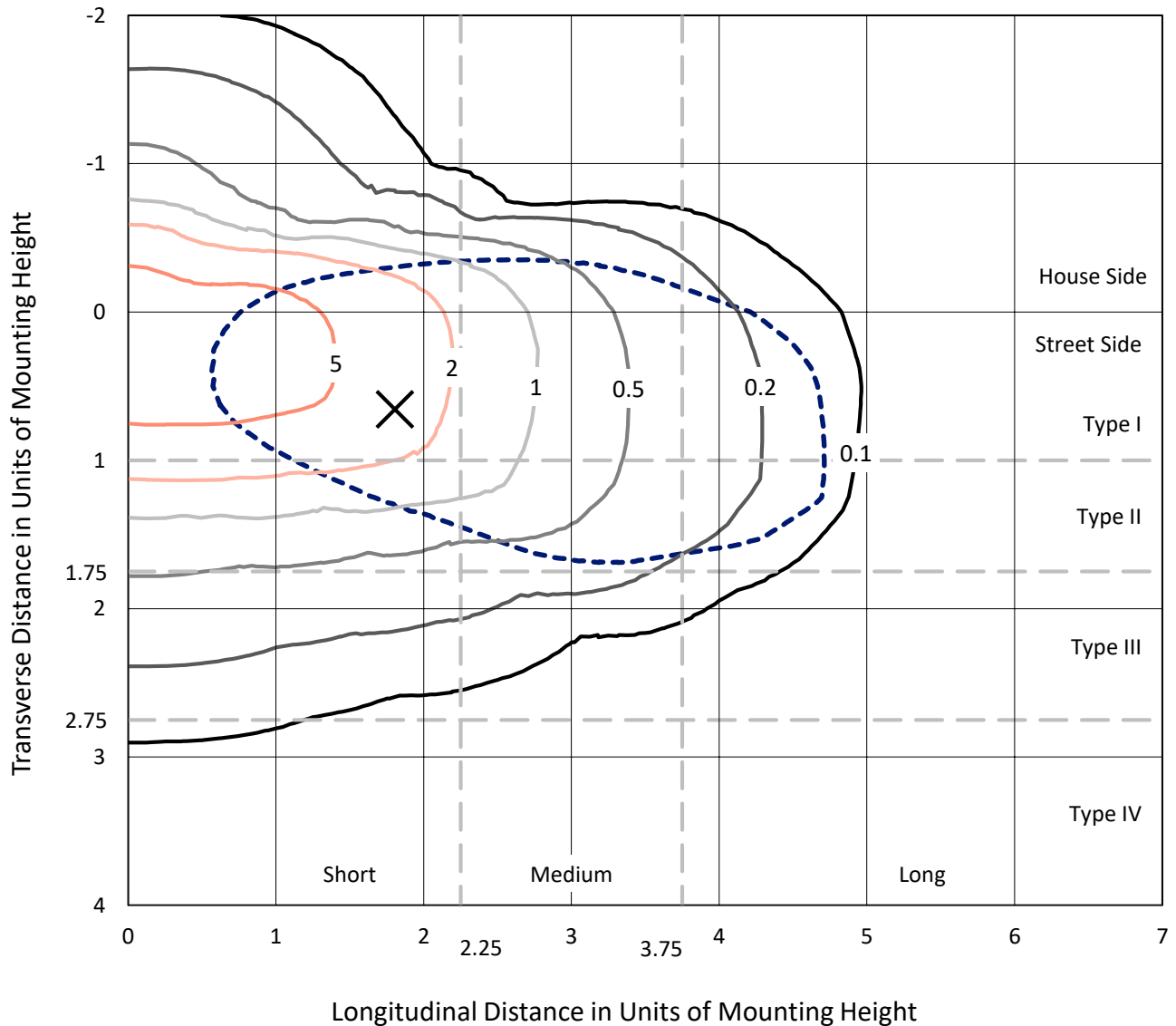
Input Watts (W): 242.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

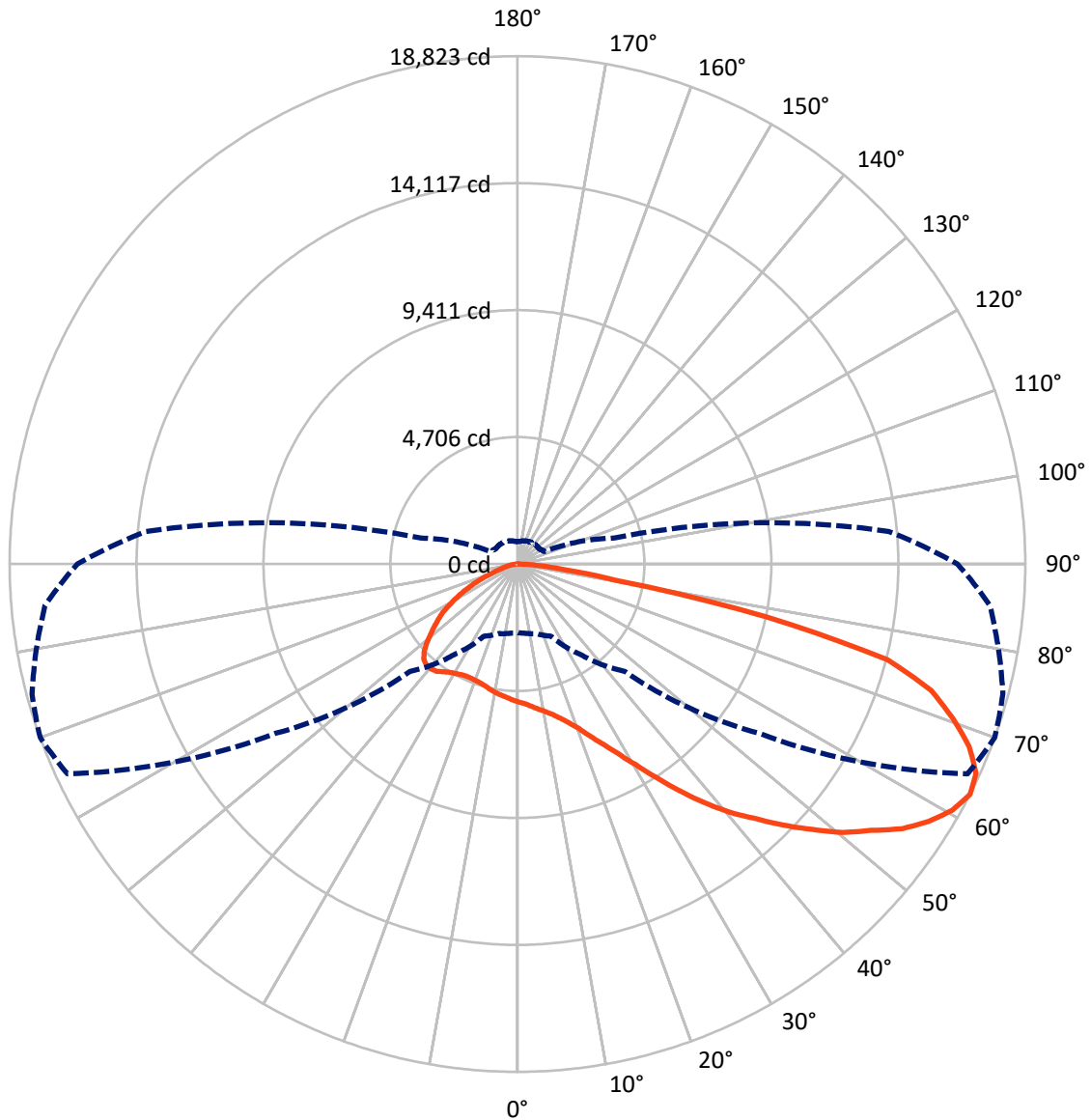
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	7331.7	0.0	7331.7
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	20986.3	0.0	20986.3
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	28318.0	0.0	28318.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.9	1.7
10°-20°	1490.8	5.3
20°-30°	2530.2	8.9
30°-40°	3661.0	12.9
40°-50°	4804.1	17.0
50°-60°	5613.5	19.8
60°-70°	5633.4	19.9
70°-80°	3589.7	12.7
80°-90°	504.5	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°	28318.0	100.0
0°-180°	28318.0	100.0

**Coefficient of Utilization**



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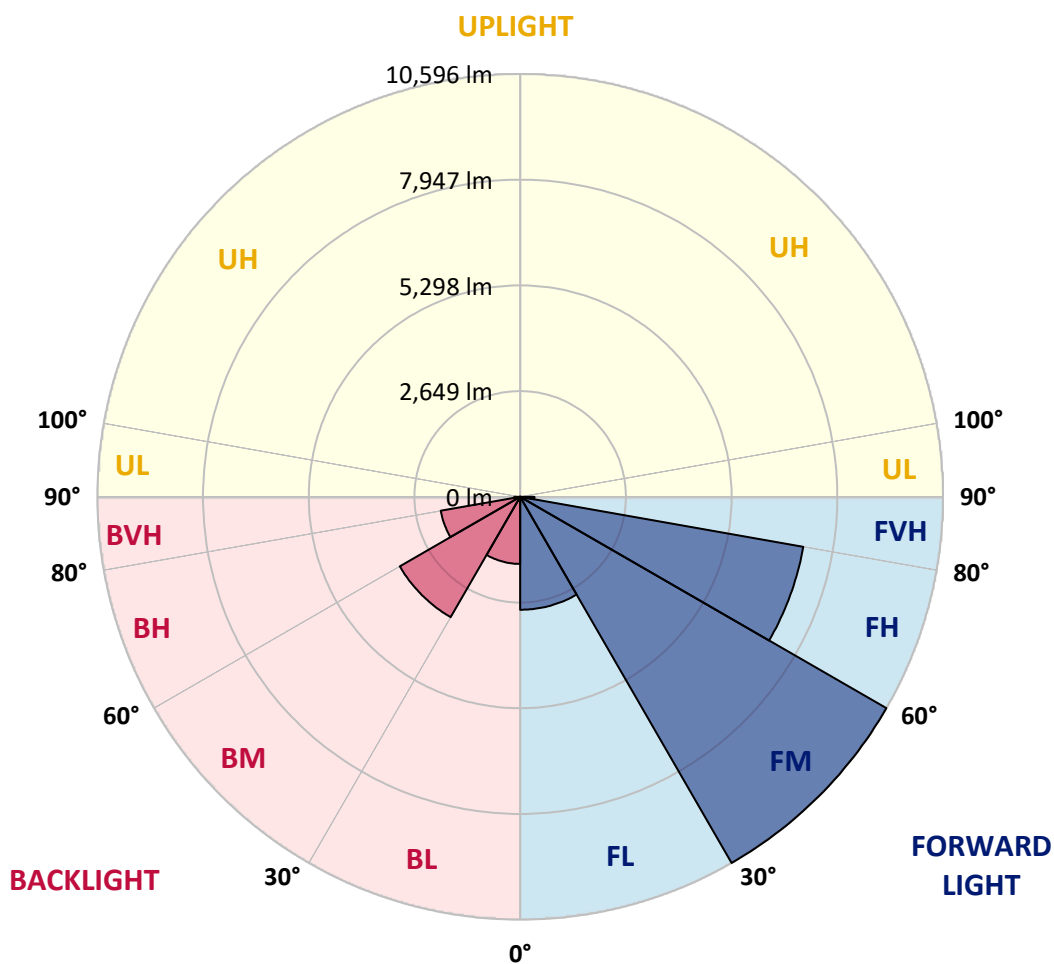
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2830.4	10.0			
FM	(30°-60°)	10596.3	37.4			
FH	(60°-80°)	7203.8	25.4			G3/7500
FVH	(80°-90°)	355.8	1.3			G3/500
BL	(0°-30°)	1681.5	5.9	B3/2500		
BM	(30°-60°)	3482.3	12.3	B3/5000		
BH	(60°-80°)	2019.2	7.1	B3/2500		G3/2500
BVH	(80°-90°)	148.6	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°	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0
2.5°	5306.8	5363.1	5355.4	5320.9	5345.2	5278.6	5254.3	5217.2	5178.8	5166.0	5144.3
5°	5557.6	5631.8	5617.8	5571.7	5570.4	5475.7	5422.0	5351.6	5292.7	5246.7	5178.8
7.5°	5791.8	5877.5	5864.7	5819.9	5817.4	5708.6	5597.3	5487.2	5419.4	5360.5	5236.4
10°	6040.0	6105.3	6093.8	6036.2	6024.7	5918.5	5788.0	5649.7	5549.9	5468.0	5291.4
12.5°	6269.1	6338.2	6343.3	6271.7	6253.8	6139.9	6026.0	5843.0	5713.7	5620.3	5360.5
15°	6482.8	6564.7	6549.4	6477.7	6458.5	6343.3	6232.0	6063.1	5928.7	5798.2	5473.2
17.5°	6654.3	6732.4	6713.2	6681.2	6670.9	6581.4	6489.2	6306.2	6187.2	6019.6	5647.2
20°	6772.0	6845.0	6852.6	6843.7	6902.5	6818.1	6766.9	6637.7	6507.1	6356.1	5885.2
22.5°	6818.1	6905.1	6979.3	7036.9	7158.5	7145.7	7136.7	7062.5	6934.5	6714.4	6200.0
25°	6832.2	6919.2	7034.4	7176.4	7393.9	7472.0	7528.3	7546.2	7406.7	7232.7	6591.6
27.5°	6834.7	6928.1	7045.9	7274.9	7606.4	7841.8	7976.2	8038.9	7960.8	7822.6	7123.9
30°	6781.0	6877.0	7028.0	7333.8	7772.7	8159.2	8381.8	8659.5	8626.3	8509.8	7790.6
32.5°	6626.1	6713.2	6921.7	7323.6	7937.8	8484.2	8831.0	9312.2	9424.8	9349.3	8559.7
35°	6348.5	6454.7	6724.7	7239.1	8027.4	8800.3	9359.5	10108.1	10311.6	10316.7	9502.8
37.5°	6068.2	6148.8	6466.2	7080.4	8077.3	9080.5	9861.1	10905.4	11201.0	11207.4	10287.3
40°	5770.0	5844.3	6193.6	6868.0	8026.1	9300.7	10328.2	11671.9	12095.5	12055.8	11057.6
42.5°	5383.6	5465.5	5812.3	6578.8	7898.1	9470.8	10803.0	12476.8	12883.7	12928.5	11861.3
45°	5053.4	5118.7	5422.0	6127.1	7664.0	9563.0	11248.3	13335.5	13801.3	13753.9	12718.7
47.5°	4646.5	4743.7	5067.5	5759.8	7242.9	9540.0	11674.4	14185.2	14703.4	14659.9	13462.1
50°	3584.4	3697.0	4449.4	5374.6	6705.5	9359.5	12060.9	14997.8	15641.4	15527.5	14249.1
52.5°	3255.5	3287.5	3586.9	4931.9	6175.7	8950.0	12345.0	16024.0	16405.4	16360.6	15046.4
55°	3054.6	3116.0	3252.9	4063.0	5699.7	8284.6	12542.1	16881.4	17311.4	17101.5	15768.1
57.5°	2878.0	2921.5	3084.0	3478.1	5152.0	7368.3	12484.5	17604.4	17988.3	17695.3	16473.2
60°	2689.9	2718.0	2880.5	3174.9	4560.7	6356.1	11899.7	18350.5	18520.7	18252.0	17069.5
62.5°	2544.0	2570.9	2668.1	2950.9	4100.1	5631.8	10942.5	18403.0	18822.7	18626.9	17576.3
65°	2357.2	2375.1	2496.6	2719.3	3672.7	5200.6	10099.2	17910.3	18676.8	18628.2	17770.8
67.5°	2151.1	2172.9	2288.1	2445.5	3126.2	4692.6	8689.0	17644.1	18060.0	18107.4	17406.1
70°	1909.3	1924.6	2043.6	2157.5	2674.5	4119.3	6907.7	16624.2	17109.2	17107.9	16280.0
72.5°	1648.2	1646.9	1764.7	1885.0	2240.7	3460.2	5407.9	14759.7	16043.2	15947.3	14677.8
75°	1359.0	1378.2	1492.1	1586.8	1864.5	2805.0	3766.1	10691.7	14163.4	14295.2	12667.5
77.5°	868.9	881.7	945.7	1042.9	1304.0	2143.4	2457.0	5941.5	9456.8	11407.0	9971.2
80°	634.7	641.1	697.4	753.7	867.6	1305.3	1249.0	2582.4	3748.2	5599.8	6116.8
82.5°	432.5	433.8	478.6	491.4	497.8	588.6	592.5	1256.6	1785.1	2102.5	2701.4
85°	286.6	238.0	185.6	245.7	252.1	216.3	211.1	566.9	885.5	1062.1	1000.7
87.5°	64.0	62.7	72.9	74.2	71.7	61.4	51.2	87.0	133.1	131.8	168.9
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°	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0	5111.0
2.5°	5123.8	5117.4	5081.6	5006.1	4954.9	4902.4	4873.0	4855.1	4861.5	4832.0	4819.2
5°	5136.6	5104.6	5003.5	4913.9	4833.3	4742.5	4667.0	4656.7	4672.1	4645.2	4629.9
7.5°	5169.9	5102.1	4972.8	4819.2	4684.9	4599.1	4490.4	4435.3	4431.5	4404.6	4409.7
10°	5189.1	5100.8	4928.0	4742.5	4585.1	4432.8	4316.3	4254.9	4251.1	4212.7	4203.7
12.5°	5241.5	5114.8	4875.5	4649.0	4473.7	4270.3	4147.4	4091.1	4084.7	4031.0	4010.5
15°	5322.2	5146.8	4820.5	4540.3	4313.8	4123.1	3975.9	3900.4	3888.9	3826.2	3804.5
17.5°	5450.1	5237.7	4803.9	4441.7	4174.3	3965.7	3792.9	3711.0	3644.5	3610.0	3580.5
20°	5622.9	5350.3	4823.1	4349.6	3999.0	3758.4	3543.4	3435.9	3389.8	3333.5	3337.4
22.5°	5868.6	5526.9	4856.4	4277.9	3840.3	3537.0	3295.2	3174.9	3091.7	3044.3	3046.9
25°	6214.1	5793.1	4921.6	4210.1	3667.5	3295.2	3009.8	2842.2	2757.7	2727.0	2695.0
27.5°	6650.5	6111.7	5076.5	4126.9	3462.8	3021.3	2705.2	2509.4	2423.7	2377.6	2371.2
30°	7210.9	6530.2	5258.2	4065.5	3247.8	2679.6	2327.7	2172.9	2097.4	2032.1	2001.4
32.5°	7894.3	7121.4	5460.4	4004.1	2981.6	2297.0	1978.4	1859.4	1739.1	1655.9	1659.7
35°	8687.7	7765.0	5761.1	3926.0	2669.4	1940.0	1719.9	1566.3	1453.7	1398.7	1373.1
37.5°	9436.3	8425.4	6114.3	3846.7	2320.0	1708.4	1465.2	1323.2	1236.2	1193.9	1202.9
40°	10193.9	9106.1	6418.8	3652.2	1928.5	1498.5	1213.1	1132.5	1098.0	1064.7	1068.5
42.5°	10872.1	9648.7	6641.5	3435.9	1654.6	1257.9	1034.0	1051.9	1072.4	1053.2	1048.1
45°	11578.5	10283.4	6837.3	3067.4	1425.6	1068.5	989.2	1039.1	1083.9	1081.3	1074.9
47.5°	12287.4	10872.1	6856.5	2578.5	1217.0	1004.5	987.9	1025.0	1083.9	1094.1	1086.4
50°	13018.1	11488.9	6743.9	2002.7	1128.7	1012.2	989.2	995.6	1060.8	1072.4	1068.5
52.5°	13828.1	12155.6	6466.2	1522.8	1094.1	1025.0	993.0	984.1	1021.2	1041.7	1045.5
55°	14572.9	12685.4	5945.4	1344.9	1068.5	1026.3	1021.2	991.7	993.0	982.8	1008.4
57.5°	15198.7	13190.9	5354.1	1247.7	1045.5	1014.8	1034.0	978.9	963.6	921.4	911.1
60°	15846.2	13601.6	4522.4	1181.1	1018.6	1000.7	1002.0	957.2	918.8	857.4	839.5
62.5°	16305.6	13819.2	3714.9	1103.1	981.5	978.9	959.8	926.5	891.9	838.2	830.5
65°	16438.7	13704.0	2853.7	1021.2	932.9	943.1	908.6	862.5	719.2	652.6	652.6
67.5°	15998.5	12995.1	2112.7	926.5	874.0	894.5	826.7	679.5	605.3	565.6	572.0
70°	14791.7	11849.8	1375.6	788.3	789.6	806.2	682.1	611.7	541.3	517.0	529.8
72.5°	13179.3	10151.6	907.3	628.3	665.4	637.3	623.2	563.1	500.4	472.2	481.2
75°	10860.6	8015.9	629.6	494.0	431.2	543.9	554.1	473.5	424.9	515.7	536.2
77.5°	8580.2	5571.7	519.5	345.5	318.6	401.8	444.0	438.9	702.5	825.4	816.4
80°	5102.1	3208.1	423.6	239.3	225.2	258.5	349.4	504.2	787.0	591.2	563.1
82.5°	2313.6	1458.8	225.2	125.4	147.2	171.5	261.1	627.0	515.7	378.8	357.0
85°	903.4	476.0	89.6	55.0	51.2	64.0	119.0	302.0	207.3	167.6	167.6
87.5°	116.5	85.7	25.6	19.2	16.6	20.5	38.4	167.6	97.3	81.9	79.3
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)