

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: P509981

Luminaire Tested: **VERD-M-CA3-180-730-U-T2**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509981  
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-CA3-180-730-U-T2  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1120mA LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25053 lumens  
Efficiency: N/A  
Efficacy: 136.8 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

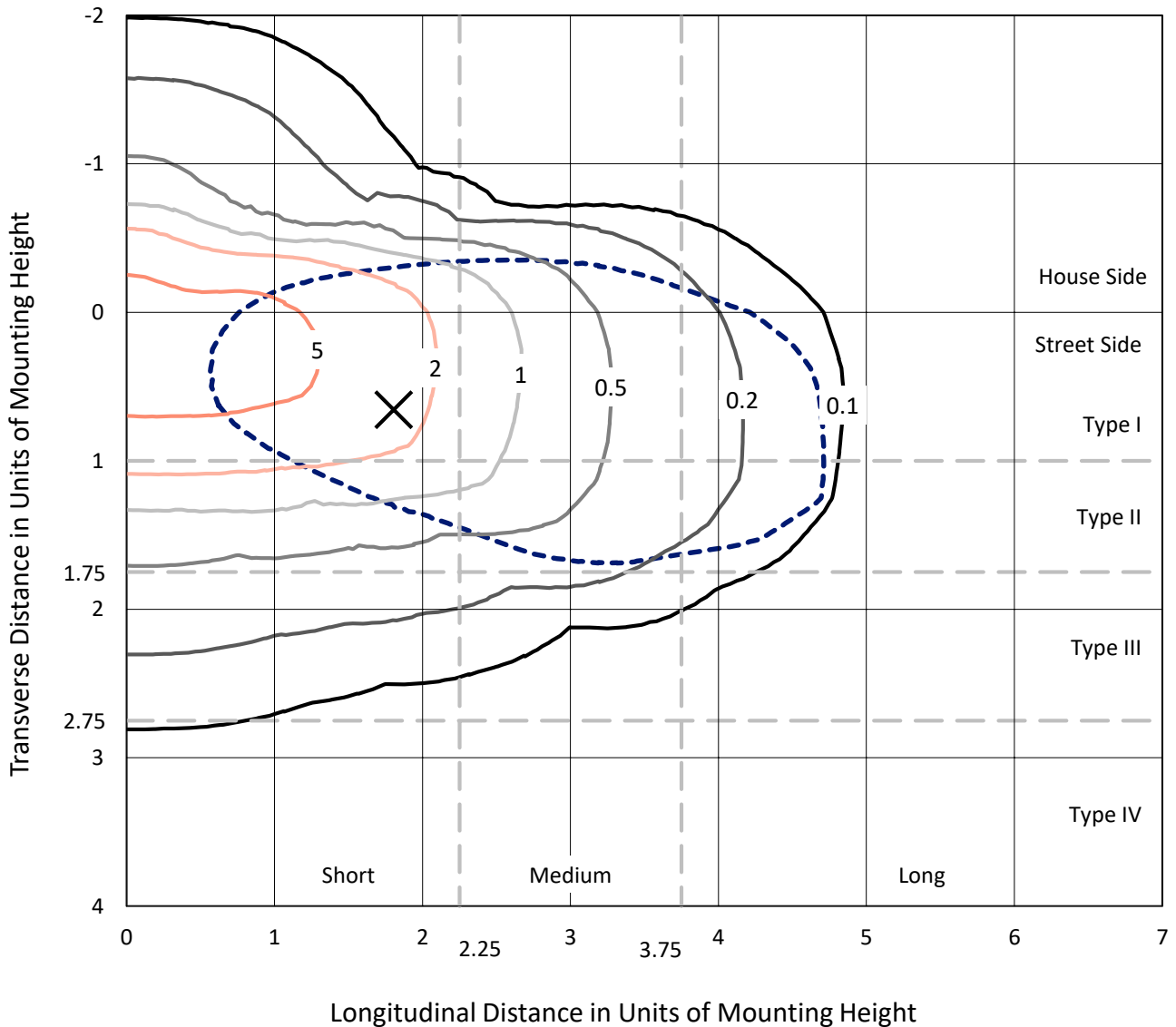
Input Watts (W): 183.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

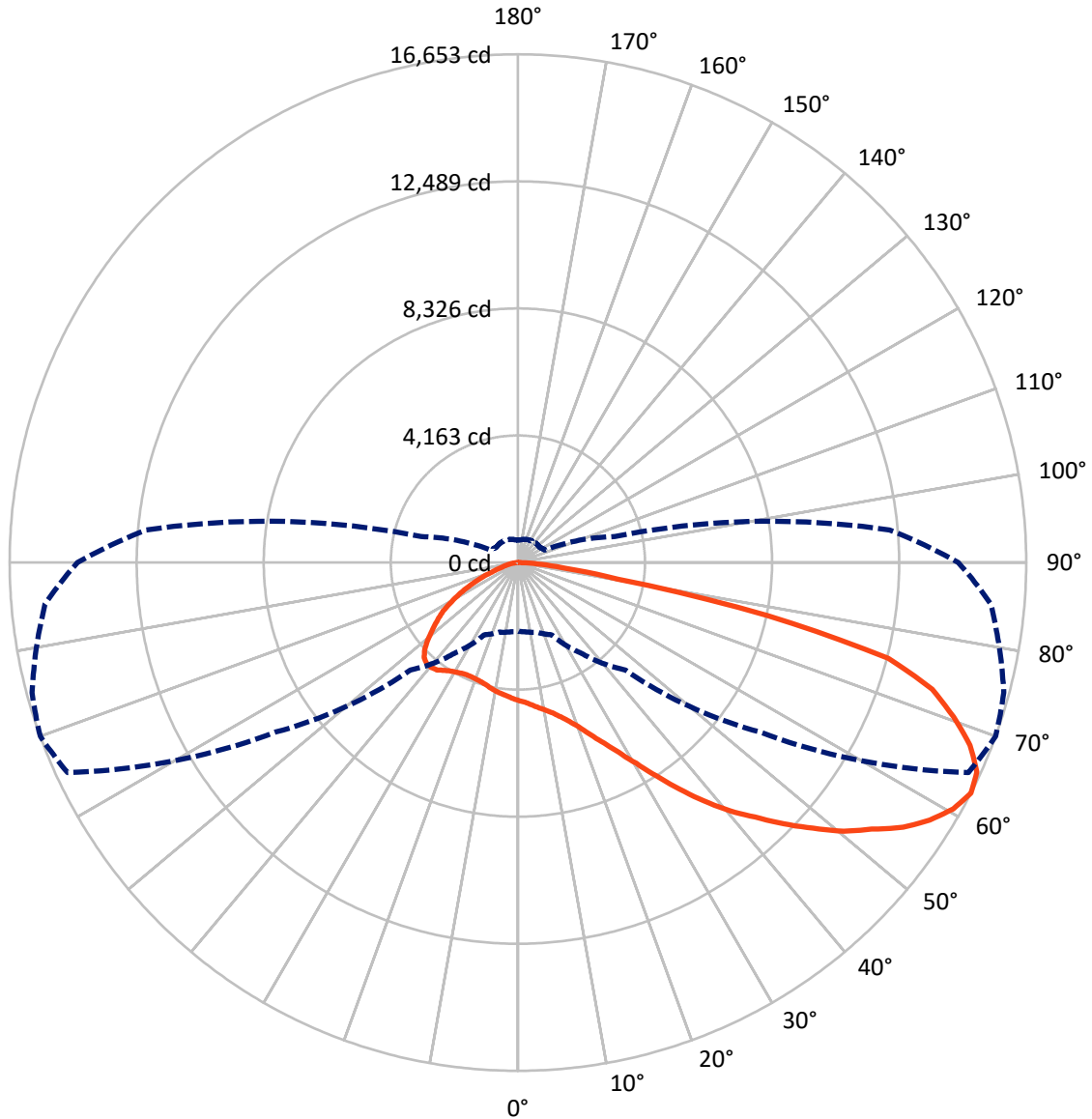
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	6486.3	0.0	6486.3
	% Fixture	25.9	0.0	25.9
<b>Street Side</b>	Lumens	18566.6	0.0	18566.6
	% Fixture	74.1	0.0	74.1
<b>Total</b>	Lumens	25053.0	0.0	25053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.3	1.7
10°-20°	1318.9	5.3
20°-30°	2238.4	8.9
30°-40°	3238.9	12.9
40°-50°	4250.2	17.0
50°-60°	4966.3	19.8
60°-70°	4983.9	19.9
70°-80°	3175.8	12.7
80°-90°	446.3	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°	25053.0	100.0
0°-180°	25053.0	100.0

**Coefficient of Utilization**



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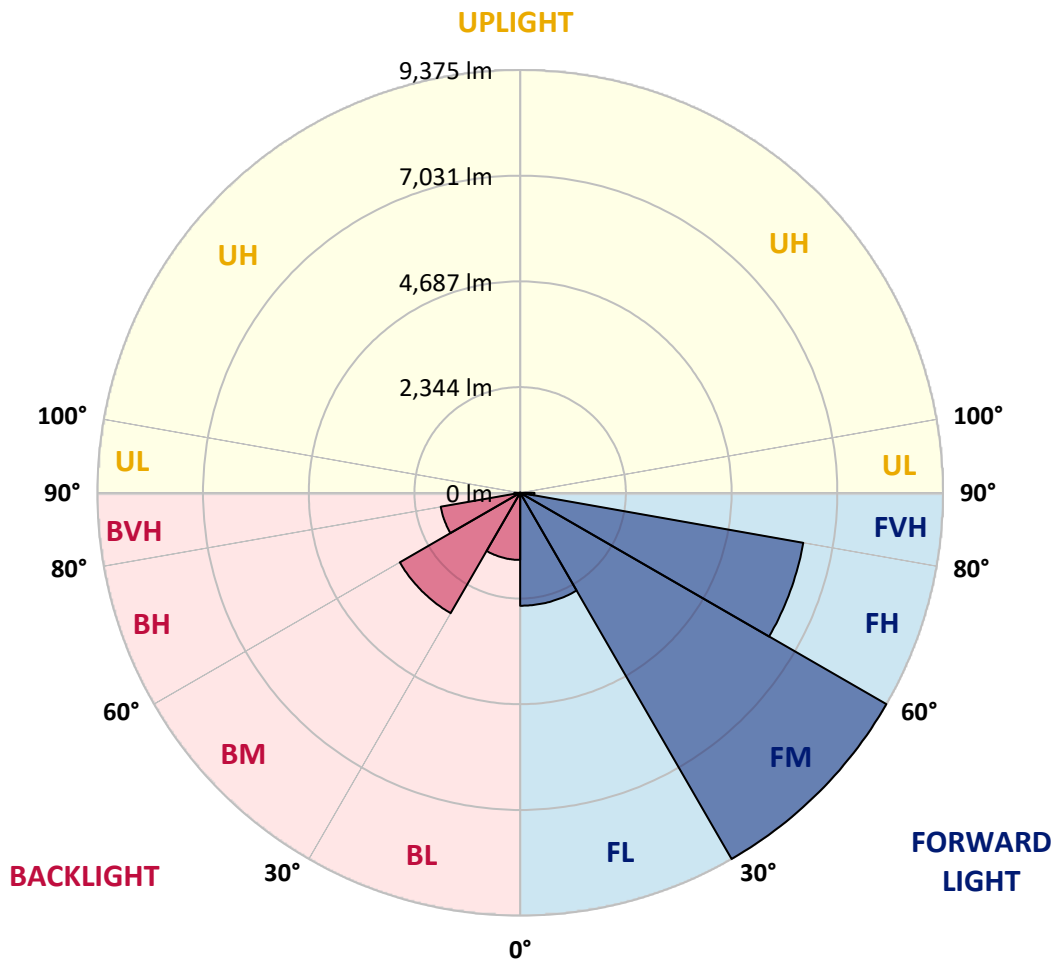
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2504.1	10.0			
FM (30°-60°)	9374.6	37.4			
FH (60°-80°)	6373.2	25.4			G3/7500
FVH (80°-90°)	314.8	1.3			G3/500
BL (0°-30°)	1487.6	5.9	B3/2500		
BM (30°-60°)	3080.8	12.3	B3/5000		
BH (60°-80°)	1786.4	7.1	B3/2500		G3/2500
BVH (80°-90°)	131.5	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°	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7
2.5°	4694.9	4744.7	4738.0	4707.4	4728.9	4670.0	4648.5	4615.7	4581.7	4570.4	4551.2
5°	4916.8	4982.5	4970.0	4929.3	4928.2	4844.4	4796.8	4734.6	4682.5	4641.7	4581.7
7.5°	5124.0	5199.9	5188.5	5148.9	5146.7	5050.4	4951.9	4854.6	4794.6	4742.5	4632.7
10°	5343.6	5401.4	5391.2	5340.2	5330.1	5236.1	5120.6	4998.3	4910.0	4837.6	4681.4
12.5°	5546.3	5607.4	5612.0	5548.6	5532.7	5432.0	5331.2	5169.3	5055.0	4972.3	4742.5
15°	5735.4	5807.8	5794.2	5730.8	5713.9	5612.0	5513.5	5364.0	5245.2	5129.7	4842.1
17.5°	5887.1	5956.1	5939.1	5910.8	5901.8	5822.5	5741.0	5579.1	5473.8	5325.5	4996.1
20°	5991.2	6055.8	6062.5	6054.6	6106.7	6032.0	5986.7	5872.3	5756.9	5623.3	5206.7
22.5°	6032.0	6109.0	6174.6	6225.6	6333.1	6321.8	6313.9	6248.2	6135.0	5940.3	5485.2
25°	6044.4	6121.4	6223.3	6349.0	6541.4	6610.5	6660.3	6676.2	6552.8	6398.8	5831.6
27.5°	6046.7	6129.3	6233.5	6436.1	6729.4	6937.7	7056.6	7112.0	7043.0	6920.7	6302.6
30°	5999.1	6084.1	6217.6	6488.2	6876.5	7218.5	7415.4	7661.1	7631.7	7528.7	6892.4
32.5°	5862.2	5939.1	6123.7	6479.2	7022.6	7506.0	7812.8	8238.5	8338.1	8271.3	7572.8
35°	5616.5	5710.5	5949.3	6404.5	7101.8	7785.6	8280.4	8942.7	9122.7	9127.2	8407.2
37.5°	5368.6	5439.9	5720.6	6264.1	7146.0	8033.6	8724.2	9648.0	9909.5	9915.2	9101.2
40°	5104.8	5170.4	5479.5	6076.1	7100.7	8228.3	9137.4	10326.1	10700.9	10665.8	9782.7
42.5°	4762.9	4835.3	5142.1	5820.3	6987.5	8378.9	9557.4	11038.3	11398.3	11437.9	10493.7
45°	4470.8	4528.5	4796.8	5420.6	6780.3	8460.4	9951.4	11797.9	12210.0	12168.1	11252.2
47.5°	4110.8	4196.8	4483.2	5095.7	6407.8	8440.0	10328.4	12549.6	13008.2	12969.7	11910.0
50°	3171.1	3270.7	3936.4	4754.9	5932.4	8280.4	10670.3	13268.5	13838.0	13737.2	12606.2
52.5°	2880.1	2908.4	3173.4	4363.2	5463.7	7918.1	10921.6	14176.5	14513.9	14474.3	13311.6
55°	2702.4	2756.7	2877.9	3594.5	5042.5	7329.4	11096.0	14935.0	15315.4	15129.8	13950.1
57.5°	2546.2	2584.6	2728.4	3077.1	4557.9	6518.8	11045.0	15574.7	15914.3	15655.1	14573.9
60°	2379.7	2404.6	2548.4	2808.8	4034.9	5623.3	10527.7	16234.7	16385.3	16147.5	15101.5
62.5°	2250.7	2274.4	2360.5	2610.7	3627.3	4982.5	9680.8	16281.1	16652.5	16479.3	15549.8
65°	2085.4	2101.2	2208.8	2405.8	3249.2	4601.0	8934.8	15845.3	16523.4	16480.4	15721.9
67.5°	1903.1	1922.4	2024.2	2163.5	2765.8	4151.5	7687.2	15609.8	15977.7	16019.6	15399.2
70°	1689.1	1702.7	1808.0	1908.8	2366.1	3644.3	6111.2	14707.5	15136.6	15135.4	14402.9
72.5°	1458.2	1457.0	1561.2	1667.6	1982.4	3061.3	4784.4	13058.0	14193.5	14108.6	12985.5
75°	1202.3	1219.3	1320.1	1403.8	1649.5	2481.6	3331.9	9458.9	12530.4	12647.0	11206.9
77.5°	768.7	780.0	836.6	922.7	1153.6	1896.3	2173.7	5256.5	8366.4	10091.8	8821.5
80°	561.5	567.2	617.0	666.8	767.6	1154.8	1105.0	2284.6	3316.0	4954.2	5411.6
82.5°	382.7	383.8	423.4	434.7	440.4	520.8	524.2	1111.8	1579.3	1860.1	2389.9
85°	253.6	210.6	164.2	217.4	223.0	191.3	186.8	501.5	783.4	939.7	885.3
87.5°	56.6	55.5	64.5	65.7	63.4	54.3	45.3	77.0	117.7	116.6	149.4
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°	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7
2.5°	4533.0	4527.4	4495.7	4428.9	4383.6	4337.2	4311.1	4295.3	4301.0	4274.9	4263.6
5°	4544.4	4516.1	4426.6	4347.4	4276.0	4195.7	4128.9	4119.8	4133.4	4109.6	4096.0
7.5°	4573.8	4513.8	4399.5	4263.6	4144.7	4068.9	3972.6	3924.0	3920.6	3896.8	3901.3
10°	4590.8	4512.7	4359.8	4195.7	4056.4	3921.7	3818.7	3764.3	3760.9	3727.0	3719.0
12.5°	4637.2	4525.1	4313.4	4113.0	3957.9	3777.9	3669.2	3619.4	3613.8	3566.2	3548.1
15°	4708.5	4553.4	4264.7	4016.8	3816.4	3647.7	3517.5	3450.7	3440.5	3385.1	3365.8
17.5°	4821.7	4633.8	4250.0	3929.6	3693.0	3508.5	3355.6	3283.2	3224.3	3193.7	3167.7
20°	4974.6	4733.4	4267.0	3848.1	3537.9	3325.1	3134.9	3039.8	2999.0	2949.2	2952.6
22.5°	5191.9	4889.7	4296.4	3784.7	3397.5	3129.2	2915.2	2808.8	2735.2	2693.3	2695.6
25°	5497.6	5125.1	4354.2	3724.7	3244.7	2915.2	2662.8	2514.5	2439.7	2412.6	2384.3
27.5°	5883.7	5407.0	4491.2	3651.1	3063.5	2673.0	2393.3	2220.1	2144.3	2103.5	2097.8
30°	6379.5	5777.3	4651.9	3596.8	2873.3	2370.7	2059.3	1922.4	1855.6	1797.8	1770.6
32.5°	6984.1	6300.3	4830.8	3542.4	2637.9	2032.2	1750.3	1645.0	1538.6	1465.0	1468.4
35°	7686.0	6869.8	5096.8	3473.4	2361.6	1716.3	1521.6	1385.7	1286.1	1237.4	1214.8
37.5°	8348.3	7453.9	5409.3	3403.2	2052.5	1511.4	1296.3	1170.6	1093.6	1056.3	1064.2
40°	9018.5	8056.2	5678.8	3231.1	1706.1	1325.7	1073.3	1001.9	971.4	941.9	945.3
42.5°	9618.6	8536.2	5875.7	3039.8	1463.8	1112.9	914.8	930.6	948.7	931.7	927.2
45°	10243.5	9097.8	6049.0	2713.7	1261.2	945.3	875.1	919.3	958.9	956.6	951.0
47.5°	10870.7	9618.6	6065.9	2281.2	1076.7	888.7	874.0	906.8	958.9	968.0	961.2
50°	11517.1	10164.2	5966.3	1771.8	998.5	895.5	875.1	880.8	938.5	948.7	945.3
52.5°	12233.8	10754.1	5720.6	1347.2	968.0	906.8	878.5	870.6	903.4	921.6	924.9
55°	12892.7	11222.8	5259.9	1189.9	945.3	908.0	903.4	877.4	878.5	869.5	892.1
57.5°	13446.3	11670.0	4736.8	1103.8	924.9	897.8	914.8	866.1	852.5	815.1	806.1
60°	14019.1	12033.4	4000.9	1045.0	901.2	885.3	886.5	846.8	812.9	758.5	742.7
62.5°	14425.6	12225.9	3286.6	975.9	868.3	866.1	849.1	819.7	789.1	741.5	734.8
65°	14543.3	12124.0	2524.6	903.4	825.3	834.4	803.8	763.1	636.3	577.4	577.4
67.5°	14153.9	11496.8	1869.1	819.7	773.2	791.4	731.4	601.2	535.5	500.4	506.1
70°	13086.3	10483.5	1217.0	697.4	698.5	713.2	603.4	541.2	478.9	457.4	468.7
72.5°	11659.8	8981.2	802.7	555.9	588.7	563.8	551.3	498.1	442.7	417.8	425.7
75°	9608.4	7091.7	557.0	437.0	381.5	481.2	490.2	418.9	375.9	456.2	474.4
77.5°	7590.9	4929.3	459.6	305.7	281.9	355.5	392.8	388.3	621.5	730.2	722.3
80°	4513.8	2838.2	374.7	211.7	199.3	228.7	309.1	446.1	696.3	523.0	498.1
82.5°	2046.9	1290.6	199.3	110.9	130.2	151.7	231.0	554.7	456.2	335.1	315.9
85°	799.3	421.2	79.2	48.7	45.3	56.6	105.3	267.2	183.4	148.3	148.3
87.5°	103.0	75.9	22.6	17.0	14.7	18.1	34.0	148.3	86.0	72.5	70.2
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)