

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: P509933

Luminaire Tested: **VERD-M-CA3-170-730-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509933
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-CA3-170-730-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1060mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23990 lumens
Efficiency: N/A
Efficacy: 138.8 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

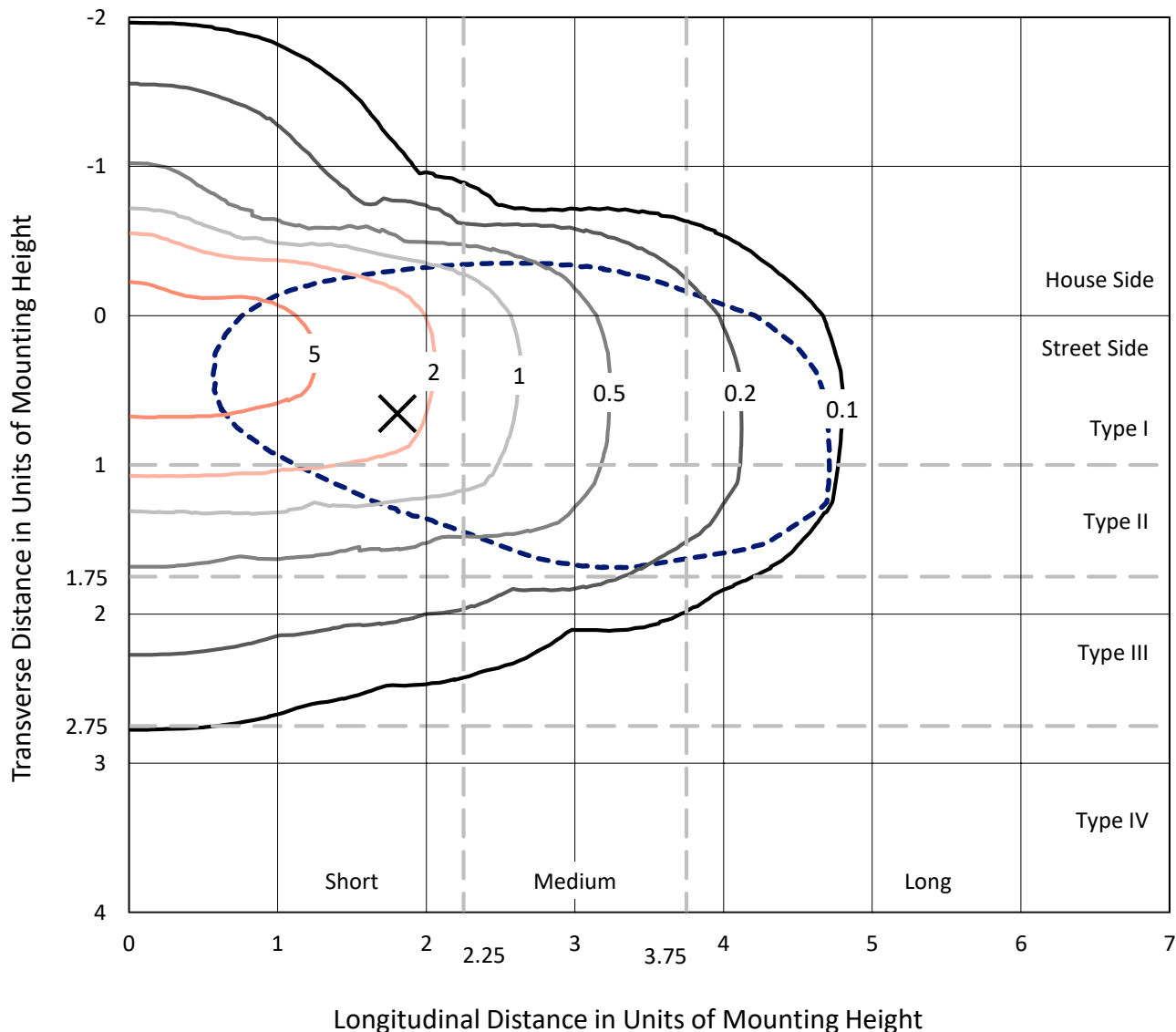
Input Watts (W): 172.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

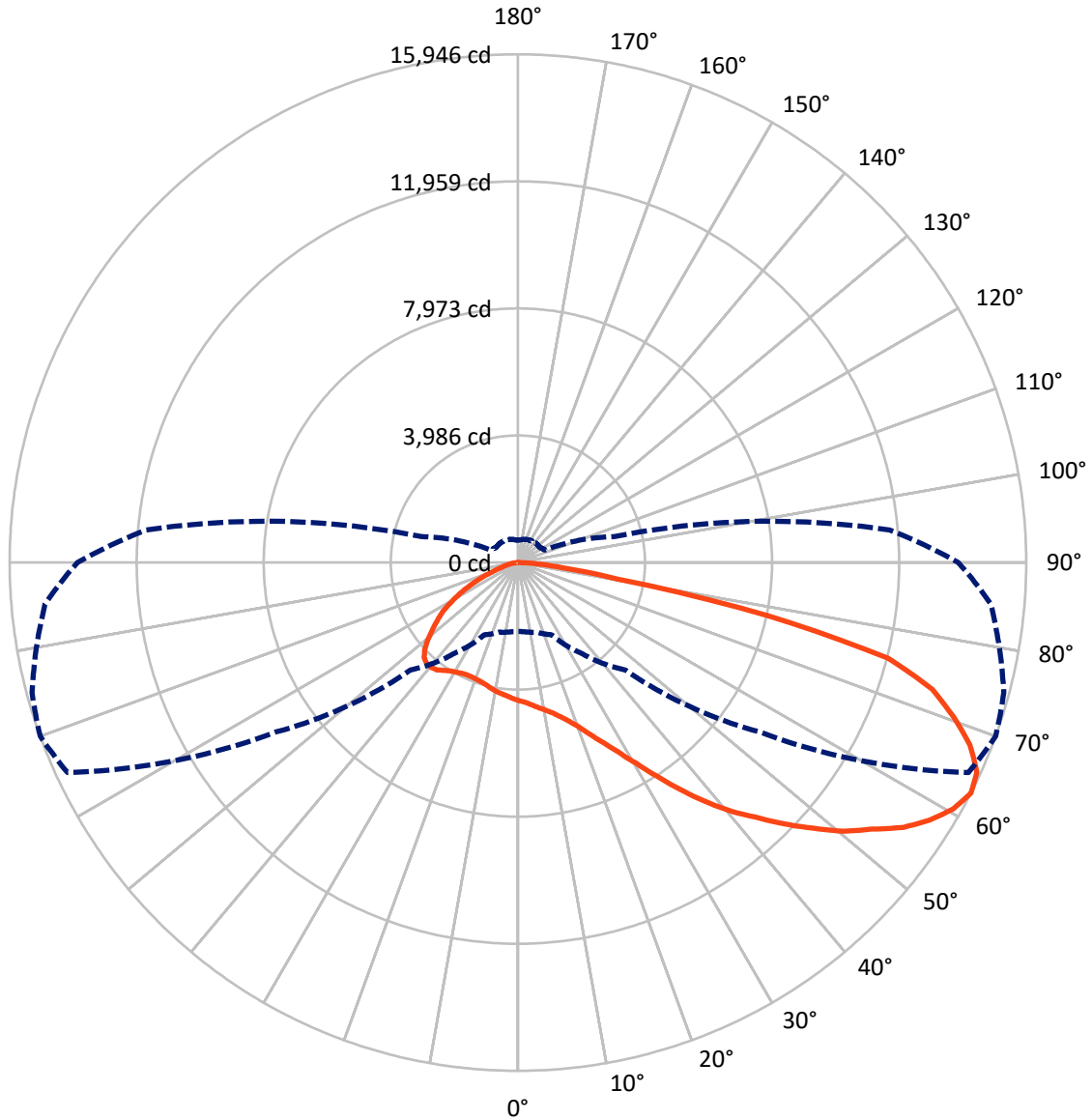
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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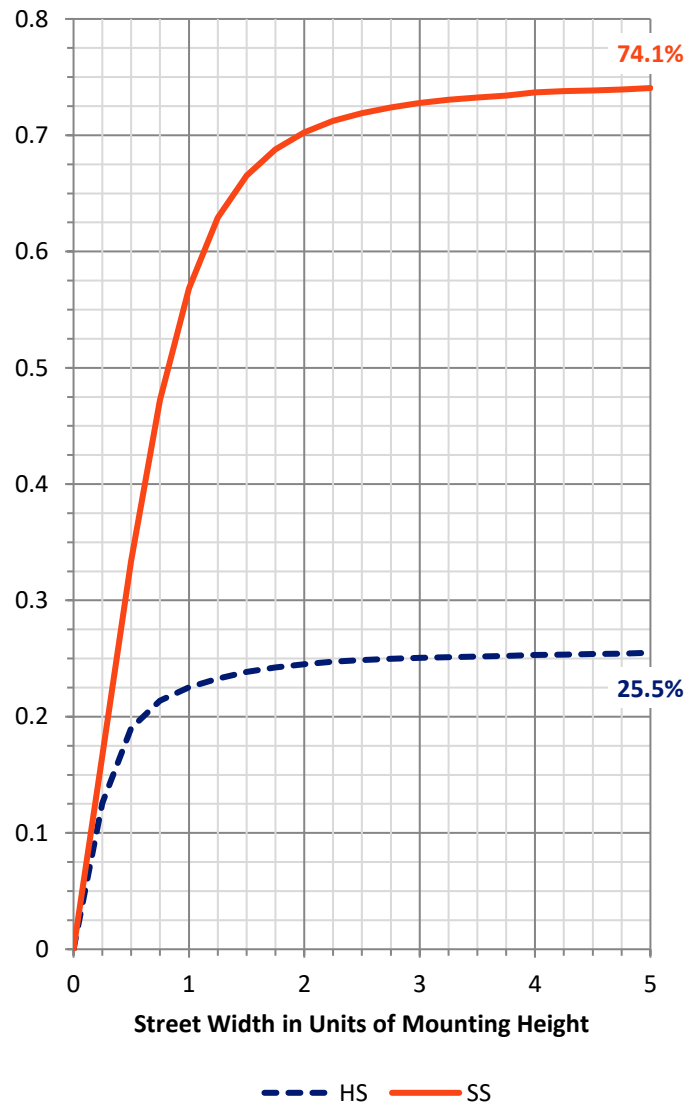
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6211.1	0.0	6211.1
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	17778.9	0.0	17778.9
	% Fixture	74.1	0.0	74.1
Total	Lumens	23990.0	0.0	23990.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.9	1.7
10°-20°	1263.0	5.3
20°-30°	2143.5	8.9
30°-40°	3101.5	12.9
40°-50°	4069.9	17.0
50°-60°	4755.5	19.8
60°-70°	4772.4	19.9
70°-80°	3041.0	12.7
80°-90°	427.4	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°	23990.0	100.0
0°-180°	23990.0	100.0



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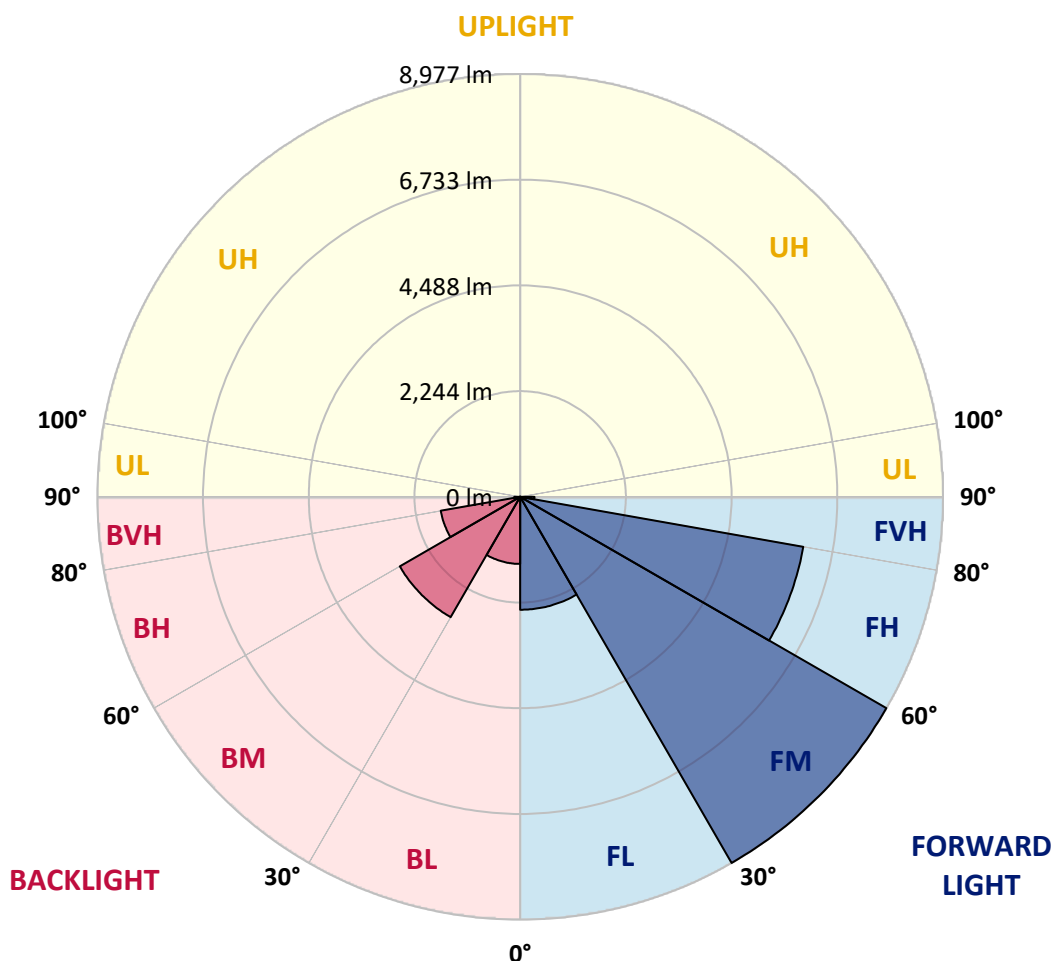
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2397.8	10.0			
FM (30°-60°)	8976.8	37.4			
FH (60°-80°)	6102.8	25.4			G3/7500
FVH (80°-90°)	301.5	1.3			G3/500
BL (0°-30°)	1424.5	5.9	B3/2500		
BM (30°-60°)	2950.1	12.3	B3/5000		
BH (60°-80°)	1710.6	7.1	B3/2500		G3/2500
BVH (80°-90°)	125.9	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°	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9
2.5°	4495.7	4543.4	4536.9	4507.7	4528.3	4471.9	4451.3	4419.8	4387.3	4376.5	4358.1
5°	4708.2	4771.1	4759.2	4720.1	4719.1	4638.8	4593.3	4533.7	4483.8	4444.8	4387.3
7.5°	4906.6	4979.2	4968.4	4930.5	4928.3	4836.1	4741.8	4648.6	4591.1	4541.3	4436.1
10°	5116.9	5172.2	5162.4	5113.7	5103.9	5013.9	4903.3	4786.3	4701.7	4632.3	4482.7
12.5°	5311.0	5369.5	5373.8	5313.1	5298.0	5201.5	5105.0	4950.0	4840.5	4761.3	4541.3
15°	5492.0	5561.4	5548.4	5487.7	5471.4	5373.8	5279.5	5136.4	5022.6	4912.0	4636.7
17.5°	5637.3	5703.4	5687.1	5660.0	5651.4	5575.5	5497.4	5342.4	5241.6	5099.6	4784.1
20°	5737.0	5798.8	5805.3	5797.7	5847.6	5776.0	5732.7	5623.2	5512.6	5384.7	4985.7
22.5°	5776.0	5849.8	5912.6	5961.4	6064.4	6053.6	6046.0	5983.1	5874.7	5688.2	5252.4
25°	5788.0	5861.7	5959.3	6079.6	6263.9	6330.0	6377.7	6392.9	6274.7	6127.3	5584.2
27.5°	5790.1	5869.3	5969.0	6163.1	6443.8	6643.3	6757.1	6810.3	6744.1	6627.1	6035.1
30°	5744.6	5825.9	5953.8	6212.9	6584.8	6912.2	7100.8	7336.1	7307.9	7209.2	6600.0
32.5°	5613.4	5687.1	5863.9	6204.3	6724.6	7187.5	7481.3	7888.9	7984.3	7920.4	7251.5
35°	5378.2	5468.2	5696.9	6132.7	6800.5	7455.3	7929.0	8563.2	8735.6	8740.0	8050.5
37.5°	5140.8	5209.1	5477.9	5998.3	6842.8	7692.7	8354.0	9238.6	9489.1	9494.5	8715.0
40°	4888.2	4951.0	5247.0	5818.3	6799.4	7879.2	8749.7	9888.0	10246.8	10213.2	9367.6
42.5°	4560.8	4630.2	4923.9	5573.3	6691.0	8023.4	9151.9	10569.9	10914.6	10952.6	10048.4
45°	4281.1	4336.4	4593.3	5190.6	6492.6	8101.4	9529.2	11297.3	11691.9	11651.8	10774.8
47.5°	3936.3	4018.7	4293.0	4879.5	6136.0	8081.9	9890.2	12017.2	12456.2	12419.4	11404.6
50°	3036.5	3131.9	3769.4	4553.2	5680.6	7929.0	10217.6	12705.6	13250.9	13154.4	12071.4
52.5°	2757.9	2785.0	3038.7	4178.1	5231.8	7582.1	10458.2	13575.0	13898.1	13860.1	12746.8
55°	2587.7	2639.8	2755.8	3442.0	4828.5	7018.4	10625.2	14301.3	14665.6	14487.8	13358.2
57.5°	2438.1	2475.0	2612.7	2946.6	4364.6	6242.2	10576.4	14913.9	15239.1	14990.8	13955.5
60°	2278.8	2302.6	2440.3	2689.6	3863.7	5384.7	10081.0	15545.9	15690.1	15462.4	14460.7
62.5°	2155.2	2177.9	2260.3	2499.9	3473.4	4771.1	9270.1	15590.3	15945.9	15780.0	14890.0
65°	1996.9	2012.1	2115.1	2303.7	3111.3	4405.8	8555.7	15173.0	15822.3	15781.1	15054.8
67.5°	1822.4	1840.8	1938.4	2071.7	2648.4	3975.4	7361.0	14947.5	15299.8	15339.9	14745.8
70°	1617.5	1630.5	1731.3	1827.8	2265.8	3489.7	5851.9	14083.4	14494.3	14493.2	13791.8
72.5°	1396.3	1395.2	1495.0	1596.9	1898.2	2931.4	4581.4	12503.9	13591.3	13510.0	12434.5
75°	1151.3	1167.6	1264.1	1344.3	1579.5	2376.3	3190.5	9057.6	11998.7	12110.4	10731.4
77.5°	736.1	746.9	801.1	883.5	1104.7	1815.9	2081.5	5033.4	8011.4	9663.6	8447.2
80°	537.7	543.1	590.8	638.5	735.0	1105.8	1058.1	2187.7	3175.3	4744.0	5182.0
82.5°	366.4	367.5	405.5	416.3	421.7	498.7	501.9	1064.6	1512.3	1781.2	2288.5
85°	242.8	201.6	157.2	208.1	213.6	183.2	178.9	480.3	750.2	899.8	847.8
87.5°	54.2	53.1	61.8	62.9	60.7	52.0	43.4	73.7	112.7	111.7	143.1
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°	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9	4329.9
2.5°	4340.7	4335.3	4304.9	4241.0	4197.6	4153.2	4128.2	4113.0	4118.5	4093.5	4082.7
5°	4351.5	4324.4	4238.8	4162.9	4094.6	4017.6	3953.7	3945.0	3958.0	3935.3	3922.2
7.5°	4379.7	4322.3	4212.8	4082.7	3968.9	3896.2	3804.1	3757.5	3754.2	3731.4	3735.8
10°	4396.0	4321.2	4174.8	4017.6	3884.3	3755.3	3656.6	3604.6	3601.4	3568.8	3561.2
12.5°	4440.4	4333.1	4130.4	3938.5	3790.0	3617.6	3513.5	3465.8	3460.4	3414.9	3397.5
15°	4508.7	4360.2	4083.8	3846.4	3654.5	3492.9	3368.3	3304.3	3294.6	3241.4	3223.0
17.5°	4617.1	4437.2	4069.7	3762.9	3536.3	3359.6	3213.2	3143.9	3087.5	3058.2	3033.3
20°	4763.5	4532.6	4085.9	3684.8	3387.8	3184.0	3001.9	2910.8	2871.8	2824.1	2827.3
22.5°	4971.6	4682.2	4114.1	3624.1	3253.4	2996.4	2791.5	2689.6	2619.2	2579.1	2581.2
25°	5264.4	4907.7	4169.4	3566.7	3107.0	2791.5	2549.8	2407.8	2336.2	2310.2	2283.1
27.5°	5634.0	5177.6	4300.6	3496.2	2933.6	2559.5	2291.8	2125.9	2053.3	2014.2	2008.8
30°	6108.9	5532.1	4454.5	3444.2	2751.4	2270.1	1972.0	1840.8	1776.8	1721.5	1695.5
32.5°	6687.8	6033.0	4625.8	3392.1	2525.9	1945.9	1676.0	1575.2	1473.3	1402.8	1406.1
35°	7359.9	6578.3	4880.6	3326.0	2261.4	1643.5	1457.0	1326.9	1231.5	1184.9	1163.2
37.5°	7994.1	7137.7	5179.8	3258.8	1965.5	1447.3	1241.3	1121.0	1047.2	1011.5	1019.0
40°	8635.9	7714.4	5437.8	3094.0	1633.7	1269.5	1027.7	959.4	930.2	902.0	905.2
42.5°	9210.4	8174.1	5626.4	2910.8	1401.7	1065.7	875.9	891.1	908.5	892.2	887.9
45°	9808.9	8711.8	5792.3	2598.6	1207.7	905.2	838.0	880.3	918.2	916.1	910.6
47.5°	10409.5	9210.4	5808.6	2184.4	1031.0	851.0	836.9	868.4	918.2	926.9	920.4
50°	11028.5	9733.0	5713.2	1696.6	956.2	857.5	838.0	843.4	898.7	908.5	905.2
52.5°	11714.7	10297.8	5477.9	1290.1	926.9	868.4	841.3	833.7	865.1	882.5	885.7
55°	12345.6	10746.6	5036.7	1139.4	905.2	869.4	865.1	840.2	841.3	832.6	854.3
57.5°	12875.8	11174.8	4535.8	1057.0	885.7	859.7	875.9	829.3	816.3	780.5	771.9
60°	13424.3	11522.8	3831.2	1000.6	862.9	847.8	848.8	810.9	778.4	726.3	711.2
62.5°	13813.5	11707.1	3147.1	934.5	831.5	829.3	813.1	784.9	755.6	710.1	703.6
65°	13926.2	11609.5	2417.5	865.1	790.3	799.0	769.7	730.7	609.3	552.9	552.9
67.5°	13553.3	11009.0	1789.8	784.9	740.4	757.8	700.3	575.7	512.8	479.2	484.6
70°	12531.0	10038.7	1165.4	667.8	668.9	683.0	577.8	518.2	458.6	438.0	448.8
72.5°	11165.1	8600.1	768.6	532.3	563.7	539.9	528.0	477.0	423.9	400.0	407.6
75°	9200.7	6790.8	533.4	418.5	365.3	460.7	469.4	401.1	359.9	436.9	454.2
77.5°	7268.8	4720.1	440.1	292.7	269.9	340.4	376.2	371.8	595.2	699.2	691.7
80°	4322.3	2717.8	358.8	202.7	190.8	219.0	296.0	427.1	666.7	500.9	477.0
82.5°	1960.0	1235.9	190.8	106.2	124.7	145.3	221.2	531.2	436.9	320.9	302.5
85°	765.4	403.3	75.9	46.6	43.4	54.2	100.8	255.8	175.6	142.0	142.0
87.5°	98.7	72.6	21.7	16.3	14.1	17.3	32.5	142.0	82.4	69.4	67.2
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)